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## **Upgrade tracking system from paper to digital for Brazilian parcel/post delivery company, Sennex express**

Keith Walter Witzel

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UPGRADE TRACKING SYSTEM FROM PAPER TO DIGITAL  
FOR BRAZILIAN PARCEL/POST DELIVERY  
COMPANY, SENNEX EXPRESS

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A Project  
Presented to the  
Faculty of  
California State University,  
San Bernardino

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In Partial Fulfillment  
of the Requirements for the Degree  
Master of Business Administration

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by  
Keith Walter Witzel  
March 2008

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Keith Walter Witzel

March 2008

Approved by:

[REDACTED]  
Dr. C. E. Tapie Rohm, Chair, Information  
& Decision Sciences

4 March 2008  
Date

[REDACTED]  
Dr. Pat McInturff, Management

[REDACTED]  
Dr. Walter T. Stewart, Department Chair,  
Information & Decision Sciences

## ABSTRACT

Sennex Express (Sennex) is a new entrant company in the Brazilian Parcel/Post Delivery Industry. They process deliveries, count, sort, and track all the processes by hand. The purpose of this project was to aid in the development of improved service of an existing small package and document delivery service in Belém, Brazil. This company, Sennex, makes its deliveries by bicycle and motorcycle due to extreme traffic congestion in the city. In order to keep a leading edge on the competition, this project after stating existing conditions, proposes using a barcode tracking system comparable to that used by American companies such as UPS or FedEx. This system would increase the accuracy in deliveries as well as allow the client or customer to track the delivery status of its packages.

#### ACKNOWLEDGMENTS

I would like to thank God for my wife, Vera Witzel, who put up with my idiosyncrasies since 1987, Joshua De Senna who, at one year old in 2004, was always asking me to lift him up to touch the ceiling and trying to help me type my project, Julianna De Senna, the 4 year old artist, for being so sweet, smart, and artistic, Al and Sandy De Senna for helping Vera and me when things were tough, Mom and Dad Witzel for keeping my spirits afloat, and Mom and Dad de Sena for letting me rest at their residence while on vacation in Brazil (Mãe e Pai de Sena por me deixarem descansar e dando-nos um lugar pra ficar nas férias e temporadas no Brasil).

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CHAPTER ONE  
PARCEL AND POST DELIVERY INDUSTRY IN BRAZIL

Industry Outlook

The parcel and post delivery industry is growing rapidly. United Parcel Service (UPS), DHL Worldwide Express (DHL), Federal Express (FedEx), and United States Postal Service (USPS) are probably the best known multinational corporations and have the vast majority of the market share. There were over 203 billion packages and documents delivered worldwide in 2003 ([usps.com](http://usps.com)) ; over 7 billion by FedEx ([fedex.com](http://fedex.com) 2004), DHL would not release their numbers for this project, and UPS was supposed to send some data but never did. In Brazil there were about 9.88 billion packages and documents delivered during 2002 a 3.78% increase over 2001 which had a volume of 9.52 billion ([www.correios.com.br](http://www.correios.com.br) 2005). The comparison of the total volume for USPS showed that it decreased in 2001 and 2002 and then started to rise again in 2003 indicating market share shift or the impact of 9/11/2001 on the delivery industry.

It is safe to say that with this much volume the industry will not disappear overnight. There is, however, an area that they do not cover or it is not cost effective

for firms to use, causing a niche, and in this niche Sennex Express (Sennex) has positioned itself. That niche is bulk deliveries to client customers. According to Mr. Alison de Sena, the Chief Executive Officer of Sennex Express, there is only one company in São Paulo, Brazil, which is about 2000 miles from them in Belém, that utilizes barcode tracking for security and has digital signature capture capability. (Alyson Sena, personal conversation, November 11, 2004)

It works this way: a company (client) wants to deliver magazines or credit cards or some other small item to the client's customers. The post office could deliver the items but the client seeks to lower the costs of delivery and someone introduces a delivery company like Sennex who can charge less than the post office and still get the deliveries done quicker and more reliably.

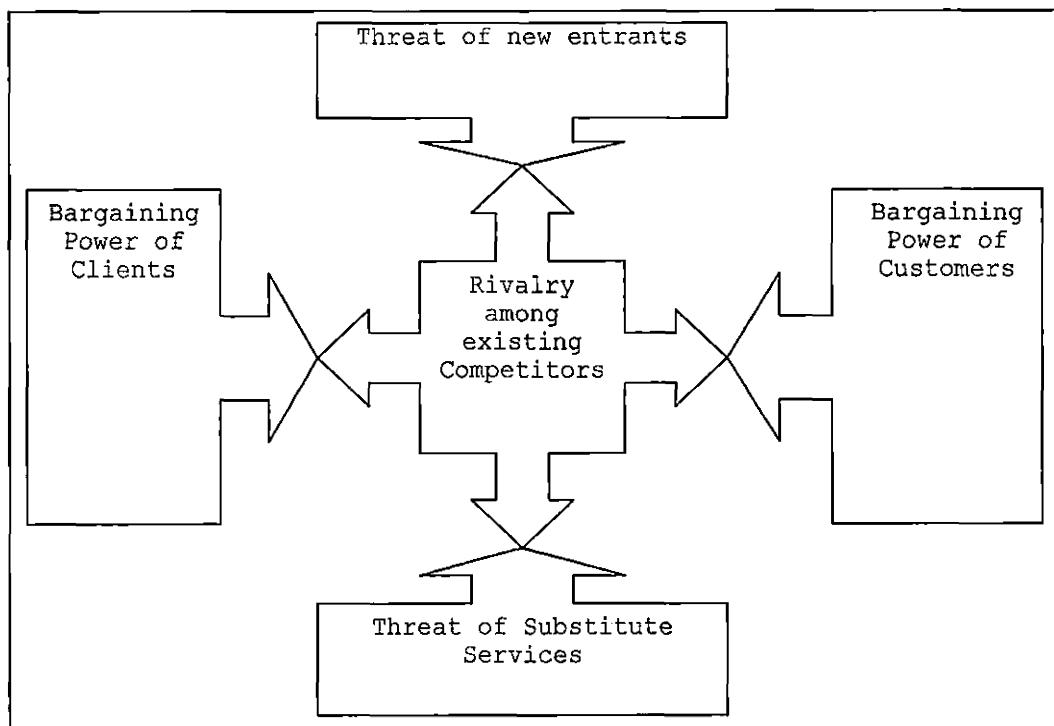
#### Industry and Internet

Many of the large companies like UPS, DHL, FedEx and others have item-by-item tracking and the item's location can be verified by using the Internet, item pickup, labeling and more. Sennex is doing all the transactions and processes by hand on paper, when tracking is done.

## Competitive Factors: Porter Analysis

Porter revolutionized the global economy with his illustrated and thoroughly analyzed new paradigm. In his book, The Competitive Advantage of Nations, Porter shows how five forces affect each other. (Porter 1990, 35)

Table 1. Modified Porter's Five Competitive Forces



### Barriers to Entry

The barriers to entry for a small company are:

1. Cost of a building. The cost of a building is probably the largest single cost that a

small company would incur at entry. Sennex already had the building; they used a residence that was converted into the office and warehouse. (Alyson Sena, personal conversation, November 11, 2004)

2. Cost of the delivery equipment. The next largest costs are the means of delivery that a small company would use. Traffic is terribly congested and getting worse so the use of cars and trucks is very limited, however motorcycles and bicycles are very maneuverable and less expensive. Sennex relied on family members to invest in the company and was able to get the equipment it needed to start up with those funds. They had a vehicle to pick up the items that were being delivered, so all they needed to add were the motorcycles and bicycles. The family investments yielded to date 4 motorcycles and 4 bicycles and employees are asked to furnish their own bicycles. This reduces the cost for Sennex. (Alyson Sena, personal conversation, November 11, 2004)

3. Cost of Information Technology (IT)

hardware, firmware, and software. The cost of the IT infrastructure is probably the third largest cost for a small company. Just having a computer in the office, as Sennex does, is not sufficient for all the tracking, client, customer, and employee data needs. (Alyson Sena, personal conversation, November 11, 2004) There must be a dedicated computer (server) that will update the website and office databases, collect the data from the delivery personnel, and forward client contact requests from the Internet. Eventually a server should be the host for the website when the company gets DSL or a T1 line. That means that the need for routers, firewalls, and switches would also have to be included in costs, when planning for expansion. Firmware and software will be developed to run on the handheld, portable data terminals. Good examples of these handhelds are at:

[http://www.symbol.com/products/mobile\\_compu](http://www.symbol.com/products/mobile_compu)

- ters/mobile\_pen\_touch\_computers.html, and  
<http://sennex.witzel.org/p.php>.
4. Need to know the market. Sennex needed to obtain new client orders or attract new clients from other companies. Sennex was well positioned but had no knowledge of the market. While working for MotoSena, a motorcycle repair and maintenance company, learning the market was one of the duties of Sennex's owners, which they then applied to Sennex. (Alyson Sena, personal conversation, November 11, 2004)
  5. Funding for payroll and other ongoing expenses. Sennex was fortunate that they gained some large accounts at the beginning and were able to make enough for payroll from the start. Also the owner's bother was able to back up the company financially when needed. (Al De Senna, personal conversation, October 18, 2004)
  6. Good marketing strategy and manager. A good marketing strategy implemented with a good marketing manager can generate a thousand times their salary in additional sales and

accounts. Sennex has no experience in marketing other than what they had with MotoSena. They also rely heavily on word-of-mouth advertising. The owners also seek out potential clients to add. Eventually they will add a sales force. (Al De Senna, personal conversation, October 18, 2004)

7. Good sales force. A sales force are key people for getting new accounts, maintaining current accounts, reacquire lost accounts. Sennex presently has no sales people to promote the company. All sales are done by the owners and it keeps them very busy. (Al De Senna, personal conversation, October 18, 2004)
8. Need to learn the market, business rules and taxes for the industry. Sennex had to learn the market, the business rules, state and federal laws governing the industry, and employee compensation laws. Mr. Sena said that he spent time in the library and law offices learning what he needed to run

this type of business. (Al De Senna,  
personal conversation, October 18, 2004)

Table 2. Entry Barriers: Parcel Delivery Industry

Barriers	Positioning scale			
	Industry		Sennex	
	Low	High	Low	High
1. Cost of a building		*	*	
2. Cost of the delivery equipment.		*		*
3. Cost of Information Technology (IT) hardware, firmware, and software.		*		*
4. Need to know the market.		*		*
5. Funding for payroll and other ongoing expenses.		*		*
6. Good marketing strategy and manager.		*	*	
7. Good sales people.		*	*	
8. Market and business rules and state and federal taxes for the industry.		*	*	

Source: Assumed due to lack of current facts from Brazilian industries. (Sena 2004)

#### Power of Clients

The power of the clients is that they are making demands on the industry to lower costs and when established firms do not fill the demand, new companies like Sennex are coming in and filling the demand. Example: the established rate to deliver a letter in Brazil is R\$0.88 (about 32¢) and it is not guaranteed to be delivered. Sennex can deliver the same item for R\$0.60 or R\$0.70 (about 22¢-25¢) a savings of R\$0.18-R\$0.28 (about

7¢-10¢) and when you multiply this by 4, 5, 12 or more thousand there is a substantial savings as shown in Table 3. Furthermore, Sennex can either guarantee delivery or provide a detailed account as to why they were unable to deliver. (Alyson Sena, personal conversation, November 11, 2004)

Table 3. Delivery Cost Savings for Firms

Rate as of July 24, 2006			Number of items to be delivered				
Rate	Conversion factor	USD	savings	1,000	4,000	5,000	12,000
R\$0.88	\$0.4576	\$0.40					
R\$0.60	\$0.4576	\$0.27	\$0.13	\$130.00	\$520.00	\$650.00	\$1560.00
R\$0.70	\$0.4576	\$0.32	\$0.08	\$ 80.00	\$320.00	\$400.00	\$ 960.00
R\$0.88	R\$1.00	R\$0.88					
R\$0.60	R\$1.00	R\$0.60	R\$0.28	R\$280.00	R\$1,120.00	R\$1,400.00	R\$3,360.00
R\$0.70	R\$1.00	R\$0.70	R\$0.18	R\$180.00	R\$720.00	R\$900.00	R\$2160.00

Source: Exchange rate on yahoo.com, CEO Mr. Alyson Sena (Sena 2004)

Table 4. Client Power: Parcel Delivery Industry

	Competition		Demand		Sennex	
	Low	High	Low	High	Low	High
1. Security	*			*		*>
2. Low costs		*		*		*
3. Tracking	*			*		*>

Source: interview with Sennex CEO Mr. Alyson Sena

### Power of Customers

The power of the customers shows itself in the fact that they do not trust the postal service to deliver sensitive items, like credit cards, because in the past such items have found their way into the wrong hands or into the trash. Customers like the personalized delivery of small companies like Sennex. A prospective client, that Sennex had been trying to get for months, decided to go with Sennex when the person in charge of the decision was handed a credit card from his bank at the hand of the Sennex owner. (Alyson Sena, personal conversation, November 11, 2004)

Table 5. Customer Power: Parcel Delivery Industry

	Industry		Sennex	
	Low	High	Low	High
Unresolved Complaints	*	*		
Compliments	*		*	
Requests		*		*

Source: (Alyson Sena, personal conversation, November 11, 2004)

### Threat of Substitute

There is not always a threat of substitute services in this segment of the delivery industry; however, the threat of rivalry is most prevalent and most threatening. (Al De Senna, personal conversation, October 18, 2004)

### Threat of Rivalry

In this area there is a constant need for vigilance and technological advancement to keep the rivals at bay.

(Al De Senna, personal conversation, October 18, 2004)

Table 6. Threat of Rivalry: Parcel Delivery Industry

	Rivals		Sennex	
	Low	High	Low	High
1. Cost of delivery	*			*
4. Charges: clients		*		*
5. Technology used		N/A		*
6. Available equipment				
a. trucks	*		*	
b. cars	*		*	
c. vans	*		*	
d. motorcycles	*		*	
e. bicycles		*		*

Source: interview with Sennex CEO Mr. Alyson Sena

### Problem, Objective and Scope

#### Problem

Client security, which may also be called client trust or confidence, is the main problem. There are many small delivery companies like Sennex and all have the same problem with providing the assurance to the client of delivery to the correct person, address, etc. Even when keeping track with a paper trail of signatures, getting the information back to the client is a hassle for the delivery company and it is not always done in a timely

manner. This causes apprehension, doubt, and distrust on the part of the client. The problem has a long-standing history and Sennex aims to change that and give the clients more security, trust, and assurance with daily reports that may be accessed via the Internet. (Alyson Sena, personal conversation, November 11, 2004)

#### Objective

The project presented Sennex with a plan to digitize and automate one of their business functions which provided Sennex with tracking of items delivered and undelivered. It also provided Sennex with the ability to post their daily results online with numbers and graphs of delivered, undeliverable, remaining items by batch number. The items that were not delivered are returned for attempted redelivery but the numbers and the reasons and other limited data is posted for the client to view online.

#### Scope

Develop the Website. The web site consisted of database driven pages, a login page, and administration pages. Sennex would collect and enter the delivery data, and then they would run a script to upload the updated data to the MySQL database for viewing in the online tracking, access, and order sections.

Develop the Plan. Provide written and graphic instructions to illustrate the plan and requirements Sennex is to follow to operate and accomplish its goals and mission within its scope.

Develop the Software. Sennex needed to translate the goals, mission, and operations to database-driven software and train the employees, managers and company officers to use the software. A third party has done this.

## CHAPTER TWO

### ONLINE TRACKING - GENERAL CONSIDERATIONS

#### Overview

The use of online tracking has become a valuable tool for both the sender and the recipient, or in the terminology of this document, client and customer.

Tracking works in very simple manner: a unique barcode is placed on the item and when it is delivered, and /or at selected locations along the way, it is scanned or the pallet on which the item is shipped is scanned, or the vehicle which is carrying the pallet is located to determine the distance and time of delivery. (Alyson Sena, personal conversation, November 11, 2004)

#### Audience and Scope

This model is useful for getting other companies to follow suit or for franchises of Sennex Express. The changes from one company to another are minimal and fairly easy to make.

#### Business Types

Although this plan is designed for a delivery company it can easily be tailored for many business types that wish to upgrade to a tracking system. For example: warehouses, distributors, parts wholesalers and retailers,

etc., or any business that requires secure tracking.

(Alyson Sena, personal conversation, November 11, 2004)

### Geography

Maps of the area are needed with detailed distances, street flow directions, and conditions, also software that takes a database of addresses in a bairro (barrio or district) and maps out the best route with detailed directions for use by the delivery personnel. If ESRI, a Geographical Information Systems company, has this data for mapping, half of the process would be finished. A competent programmer would complete the process. (Alyson Sena, personal conversation, January 5, 2005)

### Competitors

None of the competitors are getting ready for digitization of secure deliveries that Sennex is implementing. The competitors will have to spend money, that most of them do not have available, to keep their clients from switching to Sennex. (Alyson Sena, personal conversation, November 11, 2004)

## Business

### Clients

The clients are ready for the improved security Sennex is gearing up to give. Sennex has official and

unofficial clients. The official clients are contractual clients, who sign a contract protecting Sennex and them. Unofficial clients are those who use Sennex's services to save the firm some money on the cost of delivering items to the client's customers. (Alyson Sena, personal conversation, November 11, 2004)

#### Customers

These are people or businesses to which the clients send items. They may accept the item, refuse it, or if not available after à couple of delivery tries, a notice is left for them to contact the client to arrange for delivery. (Alyson Sena, personal conversation, November 11, 2004)

#### Services

Services include, but are not limited to: document delivery, correspondence delivery, bank brochures, credit cards, newsletters, magazines, newspapers, a permanent MotoBoy (a motorcycle delivery person who remains at a firm all day), delivery for a firm, office messengers (OfficeBoys) who work in uniform and carry industry identification cards. Delivery vehicles available are cars, Kombi (VW Vanagon), motorcycles, and bicycles. (Alyson Sena, personal conversation, November 11, 2004)

### Marketing Policy

The marketing thus far utilized is word of mouth and visits set up by direct contact or referrals. Newspaper ads are used for recruiting knowledgeable deliverers with their own bicycles, the fastest means of delivery for these types of items. (Alyson Sena, personal conversation, November 11, 2004)

### Payment Processing

The following are means by which Sennex determines to be a profitable entity:

#### Cash or Check Acceptability

Cash is seldom used for transactions, but is in place for a contingency backup. Previous experiences have made the possibility of handling cash by employees impossible and dangerous. Picking up cash payment or a check is done personally by Mr. Alyson de Sena. (Al De Senna, personal conversation, October 18, 2004)

#### Credit Card

Credit card payments are to be implemented soon. If PayPal, an Internet shopping cart and money exchange company, is utilized, credit card usage can be immediate. (Alyson Sena, personal conversation, November 11, 2004)

## Security

### Client Security

The clients' main concern is security, which comes in various forms. Client trust or confidence is the problem. There are many small delivery companies like Sennex and all have the same problem with providing the assurance to the client of delivery to the correct person, address, etc. Even when keeping track with the paper trail of signatures, getting the information back to the client is a hassle for the delivery company and it is not always done in a timely manner. This causes apprehension, doubt, and distrust in the client. The problem has a long-standing history and Sennex wants to change that and give the clients more security, trust, and assurance with daily reports that may be accessed via the Internet.

(Alyson Sena, personal conversation, November 11, 2004)

### E-Business Security

The security of credit card payments is as secure as the security for PayPal.com whom we could use for online payments (paypal.com 2005). Data security is our issue and we encrypt the data in the database, scramble it in transmission and decipher it only for the client who is logged on. No other data is displayed for the client than what they are authorized to view.

## Order Processing

### Inventory

Sennex has a small inventory of motorcycles, bicycles and office equipment. It maintains, though, a steady flow of clients' inventories, the delivery items for the customers. Order processing involves the pick up and delivery of clients' items. (Alyson Sena, personal conversation, January 5, 2005)

### Requirement Phase

#### Functional Requirements

Software must be developed to show the status of the deliveries for Sennex and for the clients, capture the data from portable data terminals like the Symbol PSD1500 - 1800 & PPT2700-2800 or similar that can collect the signature and associate it with the delivery of the item ([www.symbol.com](http://www.symbol.com) 2005).

Data entry training, proper scanning methods, visual scan verification, accuracy, accountability, and reliability are taught with care.

#### Technical Requirements

Sennex will need the following tools:

- server(s),
- PCs,

- monitors,
- keyboards,
- mice,
- printers,
- routers
- switches
- hubs,
- server racks,
- Uninterruptible Power Supplies,
- thin clients,
- scanners,
- barcode labelers,
- barcode printers,
- barcode readers,
- barcode scanners,
- network security hardware and
- network security software,
- development software,
- application software,
- training,
- schooling,
- seminars,
- lectures.

CHAPTER THREE  
UNDERSTANDING HYPERTEXT PRE-PROCESSOR

Hypertext Pre-Processor Definition

Hypertext Pre-Processor (PHP) is a server-side scripting language that pre-processes Hypertext, which is faster than ASP. Matt Rutledge in his book, PHP Game Programming, puts it this way in the introduction:

"Over the past few years the World Wide Web has grown tremendously. From its infant stages when a Web page was nothing more than text with HTML to dynamic, robust, extensible, rich multimedia content. Five years ago you would never have thought of playing a game on the Web, but today with current scripting languages, you can do just that. PHP has transformed the Web, as we know it. PHP provides quick, dynamic, real-time tools to bring life to Web sites.

"PHP (otherwise known as the hypertext preprocessor) burst onto the scene in 1994 when Rasmus Lendorf released a package of 'Personal Home Page' tools to the public. As more interest for these tools grew, Rasmus decided to create his own scripting engine to parse input from an

HTML form. The first version of PHP was born; it was called PHP/FI.

"The programming community quickly grew out of PHP/FI, and PHP soon became the API, as you know it today. If you know C/C++ or Java then learning the basic PHP constructs will be extremely easy.

"PHP is a wonderful tool with quick, on-the-fly, compilation. It also offers you a ton of libraries to work with to create graphics, Flash pieces, connections to databases, and connections to other computers...." (Rutledge 2004, xiii)

#### Hypertext Pre-Processor Benefits

What Rutledge says next in the "Why PHP?" section clinches the reason to chose to use PHP.

"You might ask, why PHP? What is the difference between PHP and another embedded scripting language such as ASP? The main difference between these languages is obviously syntax. But beyond that PHP offers you tons of libraries, all for free. The interpretation of code is faster than ASP, and connecting to a database

requires only two to three lines of code. The best part of PHP is that it is an object-oriented language, which inherently gives you a great deal of flexibility in your games.”  
(Rutledge 2004, xiv)

Server-side scripting works well for Web games then it will be even better for Web applications.

#### Choosing Hypertext Pre-Processor Host

There is a host that provides PHP and MySQL with 1GB of web space for less than fifty dollars (US \$50.00) per year. The account then has the opportunity of hosting another domain (splitting the size in half) for the price of one. The host periodically offers this package, on special, for less than forty dollars (US \$50.00) per year.  
(edatarack.com 2006) Comparisons of hosts have not found one that is comparable in features or price since 2001.

CHAPTER FOUR  
SENNEX WEBSITE

Database

Which Type

Sennex's budget was analyzed to determine which type of database to use. That made the decision very easy. Access was the first choice but the database that was used was a Firebird 1.5 database, and for the Internet MySQL was chosen. Synchronization tools like Access2MySQLsinc or acc2sql and PHP code already existing make synchronizing data between the two databases simple. More time will now be required for learning this new database; however synchronization is already for the databases.

Normalization of Data

The next step was to make the database and normalize it. There are:

1. Clients (CLIENTE), who need deliveries made to their customers,
2. Customers (DESTINATARIO), who receive the deliveries,
3. ClientCustomer (CLIENTE\_DESTINATARIO)
4. Delivery (ENTREGAS)

5. Employees (FUNCIONARIO), to take the calls, collect and sort the items and make the deliveries,
6. Orders, made by the clients,
7. Services, what Sennex offers,
8. Calls, taken or made to be tracked,
9. Sennex info, address, telephone numbers, etc.,
10. Relationships
11. State List
12. City List
13. Login and authorization table (combined with the clients table).

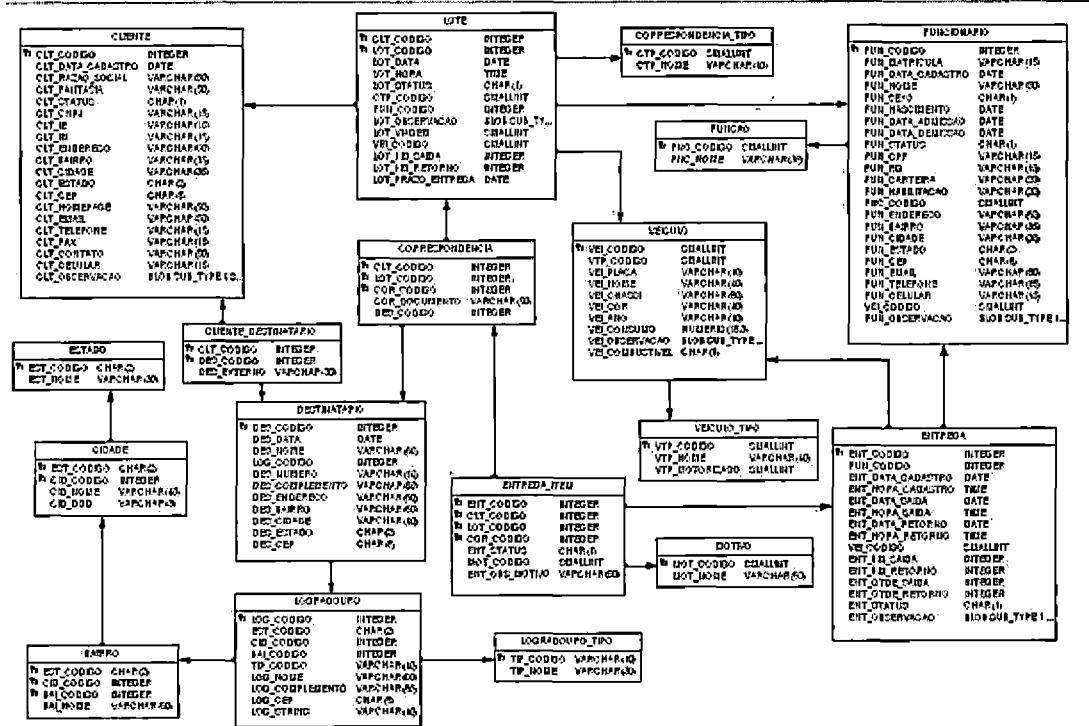


Figure 1. Sennex E-R Diagram

## Website

### Administration Website

The administration website will be controlled by PHP at login based on a code associated with the login UserID and password. This will provide access for manual input or update of data in the database, adding a client on location and setting up the online account for them to track the order or if adding a new order to an existing account then tracking and displaying the statistical analysis of the client.

Main Website



Figure 2. Welcome Page

Pictures of the motorcycle delivery team (main image), Administrative Assistant, IT technician, delivery team, and CEO (bottom row)

# Atividades

➤ Em Que Se Trabalha:

- Entregas De Documentos
- Entregas De Correspondências
- Boletos Bancários e Informativos
- Revistas
- Jornais



➤ Serviços Para Oferecer:

- Motoboy Fixo Para Empresa
- Serviços Aleatórios
- Maquinhas Usadas
- Carros
- Kombi
- Motos
- Bicicletas
- Abertos Para Outro Tipos De Serviços Do Ramo
- Officeboy
- Trabalham:
- Uniformizados
- Identificados Através De Crachá






Figure 3. Services Provided

Services include but are not limited to document delivery, correspondence delivery, bank brochures, credit cards, and newsletters, magazines, and newspapers; permanent MotoBoy (a motorcycle rider who remains at a firm all day), delivery for a firm, office messengers (OfficeBoys) work in uniform and carry industry IDs. Delivery vehicles available are cars, Kombi (VW Vanagon), motorcycles, and bicycles.

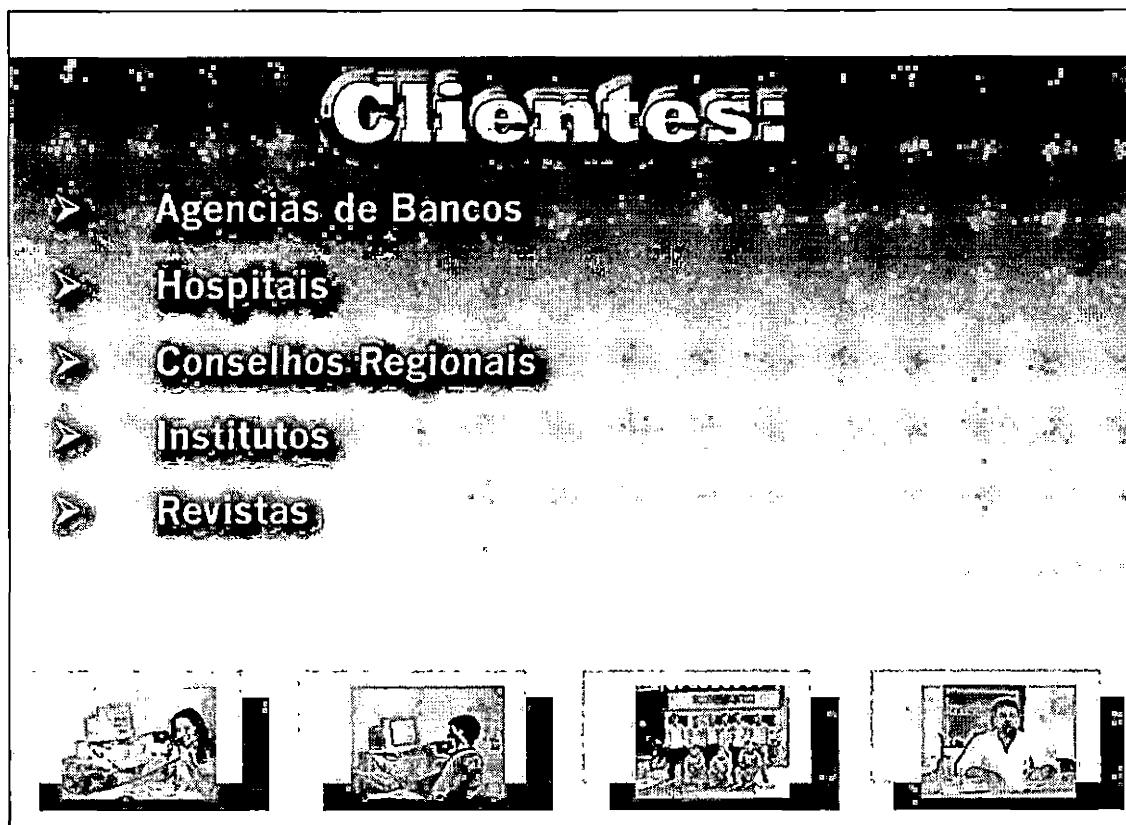


Figure 4. Clients

Some of the clients are: seven branches of the Bank of Brazil; Seventh-day Adventist Hospital in Belém; Regional Nursing Counsel; a school, Grão Pará Adventist Institute; and Amazon View.

# Projetos!

- Um Analista De Empresas dos Estados Unidos está Completando o Plano De:  
 - Integração Tecnológica,  
 - Monitorizar as Entregas Dos Clientes,  
 - Ver a produção dos Funcionários,  
 - Código de Barras como da FedEx
- Vamos Usar Uma Boa Tecnologia
  - ▢ Controle De Código De Barras
  - ▢ Atualidade E Quantidade Das Entregas
- Dominio Com Email

*Scanners de código de barra que serão usados pela Sennex.*



Figure 5. Current and Near Future Projects

- An American analyst is developing a plan to migrate from paper to digital delivery tracking, see the employee efficiency, and develop a bar-coding system similar to FedEx.
- Use of excellent technology for: barcode control and to track what is currently delivered and list reasons some could not be delivered.
- Set up a domain with email.

The row of pictures shows barcode scanners; the last accepts signatures as well.



Figure 6. Contact Information

#### How to contact Sennex

Telephone/FAX 091-243-7055 (to call from the United States dial 011-55-91-243-7055)

Email      [deliveries@witzel.org](mailto:deliveries@witzel.org)

#### Address

778 Tavares Bastos Avenue

Belém, Pará (Brazil)

#### Secure Webpages

The client or Sennex, by clicking on the *Cadastro* (login) button, may view their pending jobs in text and

chart format. Examples may be viewed at  
<http://sennex.witzel.org> using the following:  
login: mbaproject password: pr0j3ctmb4  
login: sennnexexpress password: s3nn3x  
login: client1 password: cliente1  
login: client2 password: cliente2

#### Historico

This is the history of Sennex Express from the Birth  
of the idea to present goals and mileposts.



Figure 7. Company History

## CHAPTER FIVE

### CODING AND PROGRAMMING PROCESS

#### Overview

The coding and programming process is the longest part of this project and will have debugging in the testing phase to make it fully operational for implementation and use. The sections for this are: collecting information, statistical analysis, investigation of alternatives, planning the code and dataflow diagram, not necessarily in that order.

#### Collecting Information

Information was collected by various interviews and from observation of operations. Cristovam Reis, an IT person that lives local to Sennex, developed the database. He exported the SQL statements that allow me to create the identical database tables in MySQL and populate them.

#### Statistical Analysis

The statistical analysis will give results for the following criteria: when an order is complete, list the total numbers and percentages of deliveries and returned items with graph; when an order is in progress, list the numbers and percentages of deliveries, returned items, and number of items to deliver with graph, and list the total

numbers and percentages of deliveries and returned items with graph. Example: client1 has two orders one is complete and one is in progress. The data and graphs will display similar to the following:

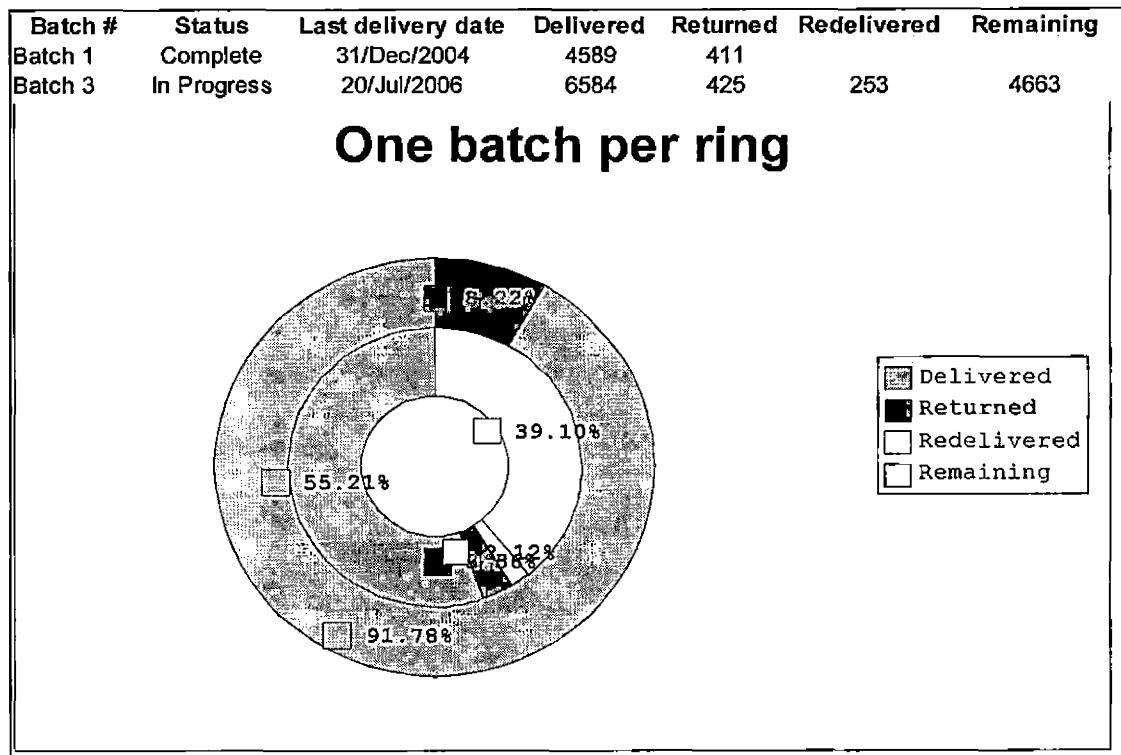


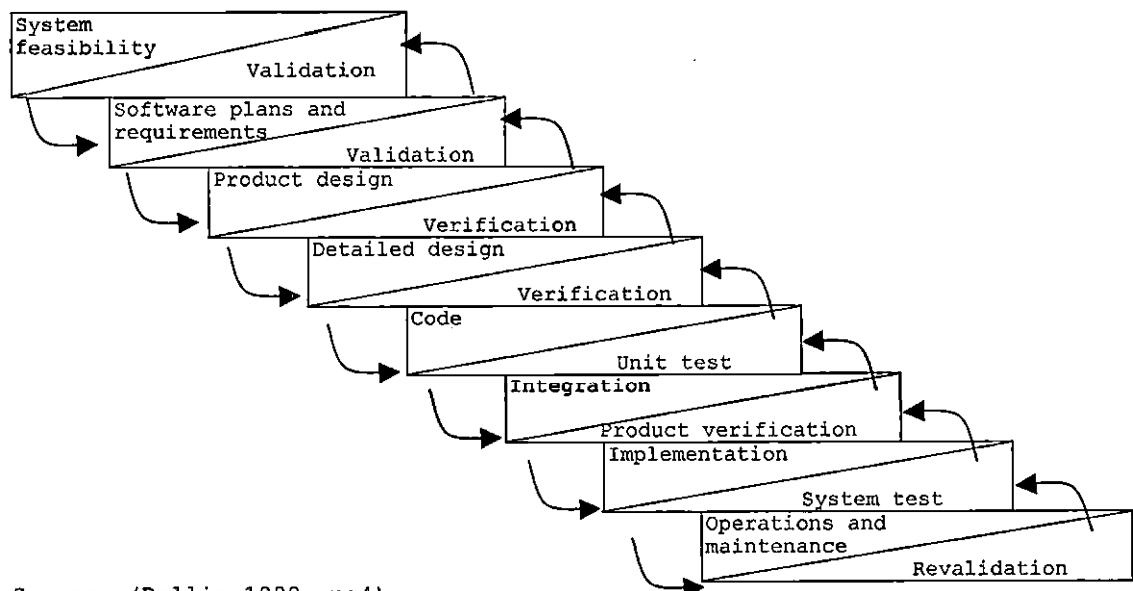
Figure 8. Excel Example of Chart

#### Investigation of Alternatives

Alternatives to using barcodes and tracking, like using Portable Data Assistant to enter a code and capture the signature when required, but were rejected since the outlay of funds would be as much as with the Symbol

barcode scanners when purchased on eBay or some other online store.

### Planning The Code



Source: (Bellin 1990, pg4)

Figure 9. Code Planning Diagram

### Dataflow Diagram

A dataflow diagram to illustrate the flow of data and items was constructed from interviews.

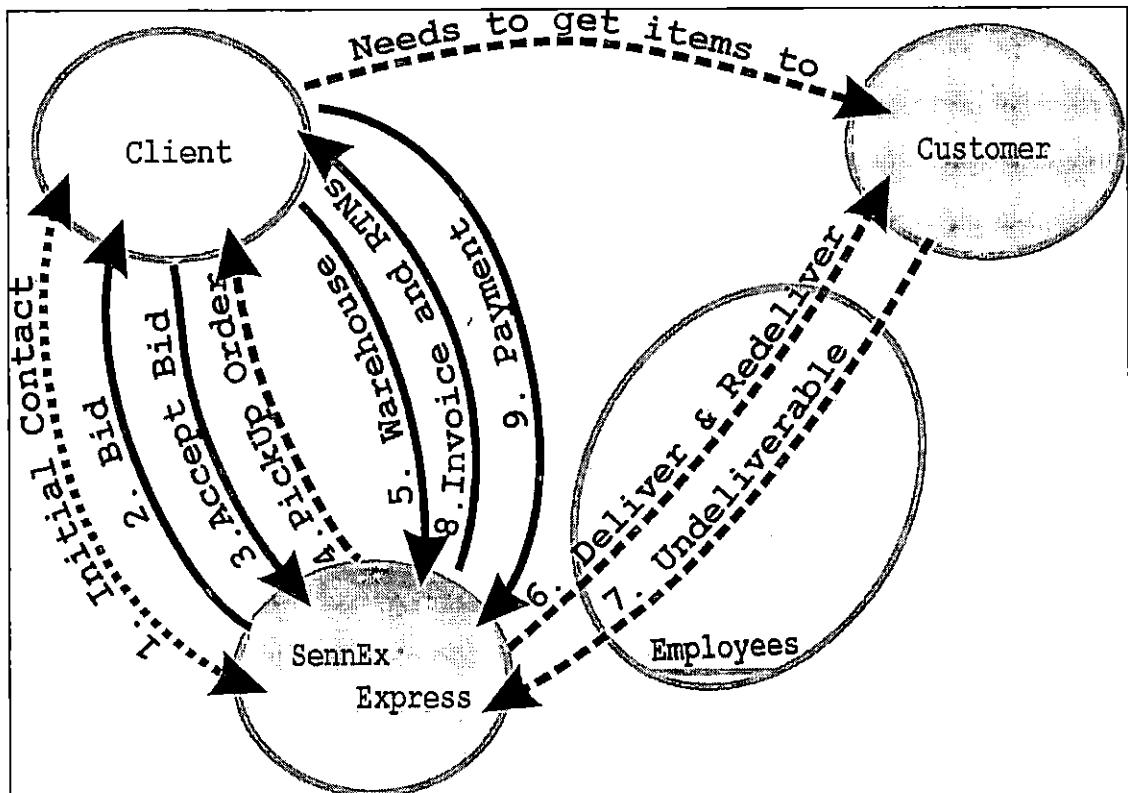
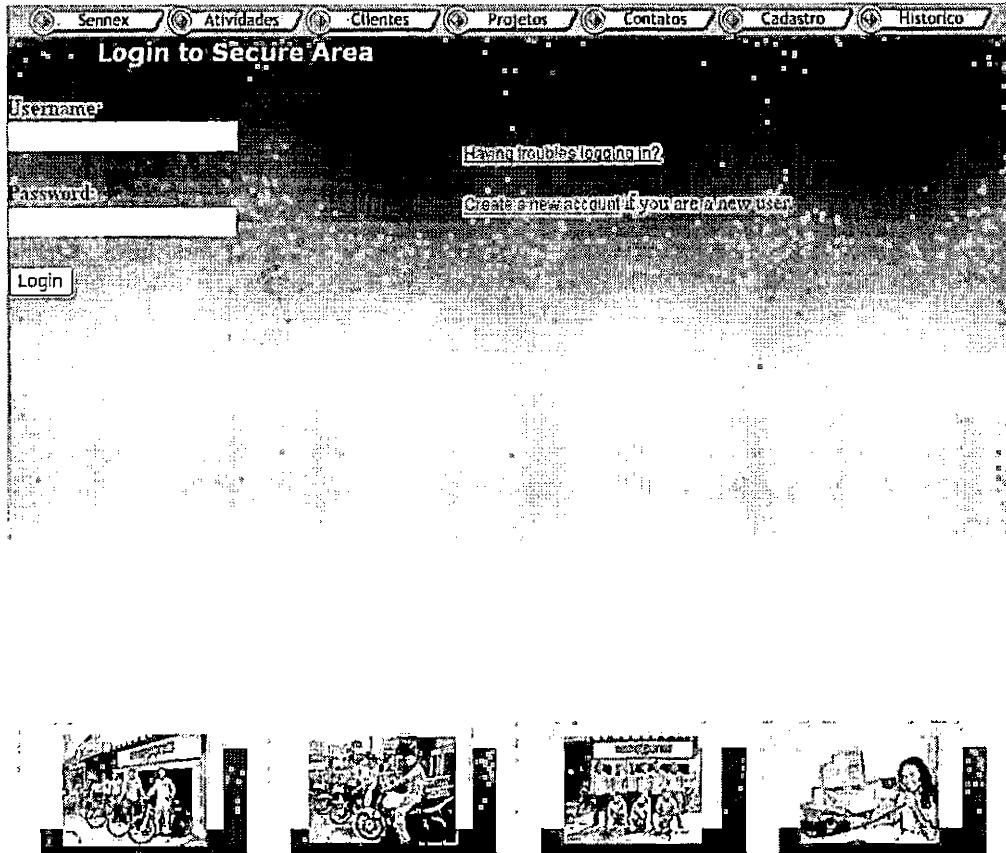


Figure 10. Sennex Dataflow Diagram

1. Initial Contact
2. Bid
3. Accept Bid
4. Pickup Order
5. Warehouse
6. Deliver & Redeliver Attempt
7. Undeliverable
8. Invoice And Returns
9. Payment

APPENDIX A  
HYPERTEXT PRE-PROCESSOR PAGES

## Login Page



```
<?PHP
    session_start();
    include("login_fns.php");
?>
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<title>Sennex Express Login</title>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1">
<link href="includes/format.css" rel="stylesheet" type="text/css">
</head>
<script language="JavaScript">
<!--
function MM_displayStatusMsg(msgStr) { //v3.0
    status=msgStr; document.MM.returnValue = true;
}

//-->
</script>
<body bgcolor="#ffffff">
<table border="0" cellpadding="0" cellspacing="0" width="766" align="center">
<!-- fwtable fwsrc="sennex.png" fwbase="sennex.jpg" fwstyle="Dreamweaver" fwdocid = "2044438944"
fnested="0" -->
<?PHP include("includes/topnavbar.inc"); ?>
<tr>
```

```
<td valign="top" colspan="8" background="http://www.sennex.witzel.org/images/bgfade.jpg"
height="500">
<?PHP
    switch ($_GET[type])
    {
        case "login":
            login(); //perform login
            break;
        case "signup":
            signup(); //call signup form
            break;
        case "bsignup":
            buildsignup();
            break;
        case "createlogins":
            createlogins();
            break;
        default:
            buildlogin();
            break;
    }
?>
</td>
</tr>
<?PHP include("includes/bottomnav.inc"); ?>
</table>
</body>
</html>
```

APPENDIX B  
SOURCE CODE

## SOURCE CODE:

Website <http://sennex.witzel.org>.

### INDEX PAGE

```
<?PHP
    session_start();
?>
<html>
<head>
<title>Sennex Express</title>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<!--Fireworks MX 2004 Dreamweaver MX 2004 target. Created Fri Dec 03 13:47:29 GMT-0800 (Pacific Standard
Time) 2004-->
<script language="JavaScript">
<!--
function MM_displayStatusMsg(msgStr) { //v3.0
    status=msgStr; document.MM_returnValue = true;
}

//-->
</script>
<link href="includes/format.css" rel="stylesheet" type="text/css">
</head>
<body bgcolor="#ffffff" leftmargin="0" topmargin="0">
<!-- <table border="0" cellpadding="0" cellspacing="0" width="770"> --
<table border="0" cellpadding="0" cellspacing="0">
<!-- fwtable fwsrc="sennex.png" fwbase="sennex.jpg" fwstyle="Dreamweaver" fwdocid = "2044438944" fwnested="0" --
>
<?PHP include("includes/topnavbar.inc"); ?>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td width="75">&nbsp;</td>
</tr><tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&nbsp;</td>
</tr><tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&nbsp;</td>
</tr><tr>
<td></td>
<td></td>
```

```

<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&nbsp;</td>
</tr><tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&nbsp;</td>
</tr>
<?PHP include("includes/bottomnav.inc"); ?>
</table>
</body>
</html>

```

## TOPINCLUDE

```
<tr>
<td bgcolor="#6898FF" align="center" colspan="8">
<object classid="clsid:D27CDB6E-AE6D-11cf-96B8-444553540000"
codebase="http://download.macromedia.com/pub/shockwave/cabs/flash/swflash.cab#version=5,0,0,0" width="105"
height="23">
<param name="BGCOLOR" value="#6898FF">
<param name="movie" value="http://sennex.witzel.org/flash/button1.swf">
<param name="quality" value="high">
<embed src="http://sennex.witzel.org/flash/button1.swf" width="105" height="23" quality="high"
pluginspage="http://www.macromedia.com/shockwave/download/index.cgi?P1_Prod_Version=ShockwaveFlash"
type="application/x-shockwave-flash" bgcolor="#6898FF" ></embed>
</object>
<object classid="clsid:D27CDB6E-AE6D-11cf-96B8-444553540000"
codebase="http://download.macromedia.com/pub/shockwave/cabs/flash/swflash.cab#version=5,0,0,0" width="105"
height="23">
<param name="BGCOLOR" value="#6898FF">
<param name="movie" value="http://sennex.witzel.org/flash/button2.swf">
<param name="quality" value="high">
<embed src="http://sennex.witzel.org/flash/button2.swf" width="105" height="23" quality="high"
pluginspage="http://www.macromedia.com/shockwave/download/index.cgi?P1_Prod_Version=ShockwaveFlash"
type="application/x-shockwave-flash" bgcolor="#6898FF" ></embed>
</object>
<object classid="clsid:D27CDB6E-AE6D-11cf-96B8-444553540000"
codebase="http://download.macromedia.com/pub/shockwave/cabs/flash/swflash.cab#version=5,0,0,0" width="105"
height="23">
<param name="BGCOLOR" value="#6898FF">
<param name="movie" value="http://sennex.witzel.org/flash/button3.swf">
<param name="quality" value="high">
<embed src="http://sennex.witzel.org/flash/button3.swf" width="105" height="23" quality="high"
pluginspage="http://www.macromedia.com/shockwave/download/index.cgi?P1_Prod_Version=ShockwaveFlash"
type="application/x-shockwave-flash" bgcolor="#6898FF" ></embed>
</object>
<object classid="clsid:D27CDB6E-AE6D-11cf-96B8-444553540000"
codebase="http://download.macromedia.com/pub/shockwave/cabs/flash/swflash.cab#version=5,0,0,0" width="105"
height="23">
<param name="BGCOLOR" value="#6898FF">
<param name="movie" value="http://sennex.witzel.org/flash/button4.swf">
<param name="quality" value="high">
<embed src="http://sennex.witzel.org/flash/button4.swf" width="105" height="23" quality="high"
pluginspage="http://www.macromedia.com/shockwave/download/index.cgi?P1_Prod_Version=ShockwaveFlash"
type="application/x-shockwave-flash" bgcolor="#6898FF" ></embed>
</object>
<object classid="clsid:D27CDB6E-AE6D-11cf-96B8-444553540000"
codebase="http://download.macromedia.com/pub/shockwave/cabs/flash/swflash.cab#version=5,0,0,0" width="105"
height="23">
<param name="BGCOLOR" value="#6898FF">
<param name="movie" value="http://sennex.witzel.org/flash/button5.swf">
<param name="quality" value="high">
<embed src="http://sennex.witzel.org/flash/button5.swf" width="105" height="23" quality="high"
pluginspage="http://www.macromedia.com/shockwave/download/index.cgi?P1_Prod_Version=ShockwaveFlash"
type="application/x-shockwave-flash" bgcolor="#6898FF" ></embed>
</object><!-- img name="sennexr1_c1" src="images/sennex-r1_c1.gif" width="766" height="32" border="0"
usemap="#m_sennexr1_c1" alt="" -->
<object classid="clsid:D27CDB6E-AE6D-11cf-96B8-444553540000"
codebase="http://download.macromedia.com/pub/shockwave/cabs/flash/swflash.cab#version=5,0,0,0" width="105"
height="23">
<param name="BGCOLOR" value="#6898FF">
<param name="movie" value="http://sennex.witzel.org/flash/button6.swf">
<param name="quality" value="high">
<embed src="http://sennex.witzel.org/flash/button6.swf" width="105" height="23" quality="high"
pluginspage="http://www.macromedia.com/shockwave/download/index.cgi?P1_Prod_Version=ShockwaveFlash"
type="application/x-shockwave-flash" bgcolor="#6898FF" ></embed>
</object>
```

```
<object classid="clsid:D27CDB6E-AE6D-11cf-96B8-444553540000"
codebase="http://download.macromedia.com/pub/shockwave/cabs/flash/swflash.cab#version=5,0,0,0" width="105"
height="23">
<param name="movie" value="http://sennex.witzel.org/flash/button7.swf">
<param name="quality" value="high">
<param name="bgcolor" value="#6898FF">
<embed src="http://sennex.witzel.org/flash/button7.swf" quality="high"
pluginspage="http://www.macromedia.com/shockwave/download/index.cgi?P1_Prod_Version=ShockwaveFlash"
type="application/x-shockwave-flash" width="105" height="23" bgcolor="#6898FF"></embed>
</object>
</td><td></td>
</tr>
```

## ACTIVITIES.

```
<?PHP
    session_start();
?>
<html>
<head>
<title>Sennex Express</title>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<!--Fireworks MX 2004 Dreamweaver MX 2004 target. Created Fri Dec 03 13:47:29 GMT-0800 (Pacific Standard
Time) 2004-->
<script language="JavaScript">
<!--
function MM_displayStatusMsg(msgStr) { //v3.0
    status=msgStr; document.MM_returnValue = true;
}

//-->
</script>
<link href="includes/format.css" rel="stylesheet" type="text/css">
<script language="JavaScript" type="text/JavaScript">
<!--
function MM_reloadPage(init) { // reloads the window if Nav4 resized
    if (init==true) with (navigator) {if ((appName=="Netscape")&&(parseInt(appVersion)==4)) {
        document.MM_pgW=innerWidth; document.MM_pgH=innerHeight; onresize=MM_reloadPage; }
    else if (innerWidth!=document.MM_pgW || innerHeight!=document.MM_pgH) location.reload(); }
}
MM_reloadPage(true);
//-->
</script>
</head>
<body bgcolor="#ffffff" leftmargin="0" topmargin="0">
<div id="BackLayer" style="position:absolute; left:25px; top:131px; width:743px; height:385px; z-index:1"
class="shadow">
<table width="98%" align="center">
<tr>
<td valign="top" width="50%">
<ul>
<li class="li2s">Em Que Se Trabalha:
    <ul>
        <li class="li3s">Entregas De Documentos</li>
        <li class="li3s">Entregas De Correspondencias</li>
        <li class="li3s">Boletos Bancarios e Informativos</li>
        <li class="li3s">Revistas</li>
        <li class="li3s">Jornais</li>
    </ul>
</li>
</ul></td>
<td valign="top" width="50%"><ul>
<li class="li1s">Serviços Para Offerecer:
    <ul>
        <li class="li2s">Motoboy Fixo Para Empreza</li>
        <li class="li2s">Serviços Aleatórios
            <ul>
                <li class="li3s">Maquinas Usadas</li>
            </ul>
</li>
<ul>
<li class="li4s">Carro</li>
<li class="li4s">Kombi</li>
<li class="li4s">Motos</li>
<li class="li4s">Bicicletas</li>
</ul>
</ul>
</li>
</ul>
</td>
```

```

        </li>
    </ul></td>
</tr>
<tr>
<td></td><td><ul>
    <li class="li2s">Abertos Para Outro Tipos De Serviços Do Ramo
        <ul>
            <li class="li3s">Officeboy</li>
            <li class="li3s">Trabalham:
                <ul>
                    <li class="li4s">Uniformizados</li>
                    <li class="li4s">Identificados Atraves De Crachá</li>
                </ul>
            </li>
        </ul>
    </li>
</ul></td>
</tr>
</table>
</div>
<div id="TopLayer" style="position:absolute; left:22px; top:128px; width:743px; height:385px; z-index:1" class="text">
<table width="98%" align="center">
<tr>
<td valign="top" width="50%">
    <ul>
        <li class="li2">Em Que Se Trabalha:
            <ul>
                <li class="li3">Entregas De Documentos</li>
                <li class="li3">Entregas De Correspondencias</li>
                <li class="li3">Boletos Bancarios e Informativos</li>
                <li class="li3">Revistas</li>
                <li class="li3">Jornais</li>
            </ul>
        </li>
    </ul>
</td><td valign="top" width="50%"><ul>
    <li class="li1">Serviços Para Offerecer:
        <ul>
            <li class="li2">Motoboy Fixo Para Empreza</li>
            <li class="li2">Serviços Aleatórios
                <ul>
                    <li class="li3">Maquinas Usadas</li>
                </ul>
            </li>
            <ul>
                <li class="li4">Carro</li>
                <li class="li4">Kombi</li>
                <li class="li4">Motos</li>
                <li class="li4">Bicicletas</li>
            </ul>
        </ul>
    </li>
</ul>
</td>
</tr>
<tr>
<td valign="top" align="center"> </td>
<td valign="top"><ul>
    <li class="li2">Abertos Para Outro Tipos De Serviços Do Ramo
        <ul>
            <li class="li3">Officeboy</li>
            <li class="li3">Trabalham:
                <ul>
                    <li class="li4">Uniformizados</li>
                    <li class="li4">Identificados Atraves De Crachá</li>
                </ul>
            </li>
        </ul>
    </li>
</ul>

```

```
        </li>
    </ul>
</li>
</ul></td>
</tr>
</table>
</div>
<table border="0" cellpadding="0" cellspacing="0" width="765">
<!-- fwtable fwsrc="button6.swf" fwbase="sennex.jpg" fwstyle="Dreamweaver" fwdocid = "2044438944" fwnested="0" --
->
<?PHP include("includes/topnavbar.inc"); ?>
<tr>
<td colspan="8" background="images/bgfade.jpg" height="500" valign="top">
<table align="center" width="98%" cellspacing="0" cellpadding="0">
<tr>
<td align="center" colspan="8"> </td>
</tr>
</table></td>
<?PHP include("includes/bottomnav.inc"); ?>
</table>
</body>
</html>
```

## CLIENTS

```
<?PHP
    session_start();
?>
<html>
<head>
<title>Sennex Express</title>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<!--Fireworks MX 2004 Dreamweaver MX 2004 target. Created Fri Dec 03 13:47:29 GMT-0800 (Pacific Standard
Time) 2004-->
<script language="JavaScript">
<!--
function MM_displayStatusMsg(msgStr) { //v3.0
    status=msgStr; document.MM_returnValue = true;
}

//-->
</script>
<link href="../includes/format.css" rel="stylesheet" type="text/css">
<link href="includes/format.css" rel="stylesheet" type="text/css">
</head>
<body bgcolor="#ffffff" leftmargin="0" topmargin="0">
<table border="0" cellpadding="0" cellspacing="0" width="766">
    <!-- fwtable fwsrc="sennex.png" fwbase="sennex.jpg" fwstyle="Dreamweaver" fwdocid = "2044438944" fwnested="0"
-->
    <?PHP include("includes/topnavbar.inc"); ?>
<tr>
    <td colspan="8" background="../images/bgfade.jpg" height="500" valign="top">
        <table align="center" width="98%" cellspacing="0" cellpadding="0">
            <tr>
                <td align="center"> </td>
            </tr>
            </table>
            <div id="BackLayer" style="position:absolute; left:25px; top:131px; width:743px; height:385px; z-index:1"
class="shadow">
                <table width="98%" align="center">
                    <tr>
                        <td valign="top" rowspan="2">
                            <ul>
                                <li class="li1s">Agencias de Bancos</li>
                                <li class="li1s">Hospitais</li>
                                <li class="li1s">Conselhos Regionais</li>
                                <li class="li1s">Institutos</li>
                                <li class="li1s">Revistas</li>
                            </ul>
                        </td>
                    </tr>
                    <tr>
                        </td>
                    </tr>
                </table>
            </div>
            <div id="TopLayer" style="position:absolute; left:22px; top:128px; width:743px; height:385px; z-index:1" class="text">
                <table width="98%" align="center">
                    <tr>
                        <td valign="top" rowspan="2">
                            <ul>
                                <li class="li1">Agencias de Bancos</li>
                                <li class="li1">Hospitais</li>
                                <li class="li1">Conselhos Regionais</li>
                                <li class="li1">Institutos</li>
                                <li class="li1">Revistas</li>
                            </ul>
                        </td>
                    </tr>
                    <tr>
                        </td>
                    </tr>
                </table>
            </div>
        </td>
    <?PHP include("includes/bottomnav.inc"); ?>
```

```
</table>
</body>
</html>
```

## PROJECTS

```
<?PHP
    session_start();
    $pagetype="p";
?>
<html>
<head>
<title>Sennex Express</title>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<!--Fireworks MX 2004 Dreamweaver MX 2004 target. Created Fri Dec 03 13:47:29 GMT-0800 (Pacific Standard
Time) 2004-->
<script language="JavaScript">
<!--
function MM_displayStatusMsg(msgStr) { //v3.0
    status=msgStr; document.MM_returnValue = true;
}

//-->
</script>
<link href="includes/format.css" rel="stylesheet" type="text/css">
</head>
<body bgcolor="#ffffff" leftmargin="0" topmargin="0">
<div id="BackLayer" style="position:absolute; left:24px; top:130px; width:743px; height:385px; z-index:1"
class="shadow">
<table width="98%" align="center">
    <tr>
        <td valign="top"> <ul>
            <ul>
                <li class="li2s"> Um Analista De Empresas dos Estados Unidos esta Completando o Plano De:
                    <ul>
                        <li class="li3s">Integração Tecnológica,</li>
                        <li class="li3s">Monitorizar as Entregas Dos Clientes, </li>
                        <li class="li3s">Ver a produção dos Funcionarios,</li>
                        <li class="li3s">Codigo de Barra como da FedEx</li>
                        <li class="li3s"> Vamos Usar Uma Boa Tecnologia </li>
                        <li class="li3s">Controle De Código De Barra</li>
                        <li class="li3s">Atualidade E Quantidade Das Entregas</li>
                        <li class="li3s">Dominio Com Email</li>
                    </ul>
                </li>
            </ul>
            <li class="li2s"><a href=ta.php target="_blank" class="li2">Tecnologia
Adquerida nos Estados Unidos </a></li>
        </ul>
    </td>
    </tr>
</table>
</div>
<div id="TopLayer" style="position:absolute; left:22px; top:128px; width:743px; height:385px; z-index:1" class="text">
    <table width="98%" align="center">
        <tr>
            <td valign="top"> <ul>
                <ul>
                    <li class="li2s"> Um Analista De Empresas dos Estados Unidos esta Completando o Plano De:
                        <ul>
                            <li class="li3s">Integração Tecnológica,</li>
                            <li class="li3s">Monitorizar as Entregas Dos Clientes, </li>
                            <li class="li3s">Ver a produção dos Funcionarios,</li>
                            <li class="li3s">Codigo de Barra como da FedEx</li>
                            <li class="li3s"> Vamos Usar Uma Boa Tecnologia </li>
                            <li class="li3s">Controle De Código De Barra</li>
                            <li class="li3s">Atualidade E Quantidade Das Entregas</li>
                            <li class="li3s">Dominio Com Email</li>
                        </ul>
                    </li>
                </ul>
            </td>
            </tr>
</table>
</div>
```

```
<li class="li2"><a href=ta.php target="_blank" class="li2b">Tecnologia  
Adquerida nos Estados Unidos (clique aqui) </a></li>  
        </ul>  
    </td>  
</tr>  
</table>  
</div>  
<table border="0" cellpadding="0" cellspacing="0" width="100%">  
    <?PHP include("includes/topnavbar.inc"); ?>  
    <tr>  
        <td colspan="8" background="images/bgfade.jpg" height="500" valign="top">  
        <table align="center" width="98%" cellspacing="0" cellpadding="0">  
            <tr>  
                <td align="center"> </td>  
            </tr>  
        </table></td></tr><tr>  
        <?PHP include("includes/bottomnavP.inc"); ?>  
</table>  
</body></html>
```

## CONTACT

```
<?PHP
    session_start();
?>
<html>
<head>
<title>Sennex Express</title>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<!--Fireworks MX 2004 Dreamweaver MX 2004 target. Created Fri Dec 03 13:47:29 GMT-0800 (Pacific Standard
Time) 2004-->
<script language="JavaScript">
<!--
function MM_displayStatusMsg(msgStr) { //v3.0
    status=msgStr; document.MM_returnValue = true;
}

//-->
</script>
<link href="includes/format.css" rel="stylesheet" type="text/css">
</head>
<body bgcolor="#ffffff" leftmargin="0" topmargin="0">
<table border="0" cellpadding="0" cellspacing="0" width="100%">
<tr><td background="images/bgfade.jpg" bgcolor="#9900FF">
<?PHP include("includes/topnavbar.inc"); ?>
<tr>
<td height="500" colspan="8" valign="top" background="images/bgfade.jpg">
    <table align="center" width="98%" cellspacing="0" cellpadding="0">
        <tr>
            <td align="center"> </td>
        </tr>
    </table>
    <div id="BackLayer" style="position:absolute; left:25px; top:131px; width:743px; height:385px; z-index:1"
class="shadow">
        <table width="98%" align="center">
            <tr>
                <td valign="top"><ul>
                    <li class="li1s"> Como Entrar Em Contato Com A Sennex:
                        <ul>
                            <li class="li2s">Telefone/Fax: 091-243-7055</li>
                            <li class="li2s">Email: entregas@sennex.us</li>
                            <li class="li2s">Endereço:
                                <ul>
                                    <li class="li3s">Avenida Tavares Bastos N° 778</li>
                                    <li class="li3s">CEP 66.600-000 Belém Do Pará </li>
                                </ul>
                            </li>
                        </ul>
                    </li>
                </td>
            </tr>
        </table>
    </div>
    <div id="TopLayer" style="position:absolute; left:22px; top:128px; width:743px; height:385px; z-index:1"
class="text">
        <table width="98%" align="center">
            <tr>
                <td valign="top"><ul>
                    <li class="li1"> Como Entrar Em Contato Com A Sennex:
                        <ul>
                            <li class="li2">Telefone/Fax: 091-243-7055</li>
                            <li class="li2">Email: entregas@sennex.us</li>
                            <li class="li2">Endereço:
                                <ul>
                                    <li class="li3">Avenida Tavares Bastos N° 778</li>
                                    <li class="li3">CEP 66.600-000 Belém Do Pará </li>
                                </ul>
                            </li>
                        </ul>
                    </li>
                </td>
            </tr>
        </table>
    </div>

```

```
        </ul>
        </li>
    </ul>
    </li>
</ul></td>
</tr>
</table>
</div></td><td background="images/bgfade.jpg"></td>
<?PHP include("includes/bottomnav.inc"); ?>
</table>
</body>
</html>
```

## LOGIN

```
<HTML>
<HEAD>
<TITLE>Login</TITLE>
</HEAD>
<BODY>
<H1><font face="Verdana" size="4" color="#2852A8">Login to Secure Area</font></H1>
<FORM METHOD="POST" ACTION="localhost/sennex.witzel.org/httpsdocs/login/redirect.php">
<P><font face="Verdana" size="2" color="#2852A8"><STRONG>Username:</STRONG><BR>
</font><font color="#2852A8" face="Verdana">
<INPUT TYPE="text" NAME="username" SIZE=25 MAXLENGTH=25></font></p>
<P><font face="Verdana" size="2" color="#2852A8"><STRONG>Password:</STRONG><BR>
</font><font color="#2852A8" face="Verdana">
<INPUT TYPE="password" NAME="password" SIZE=25 MAXLENGTH=25></font></p>
<P><font color="#2852A8">
<INPUT TYPE="submit" NAME="submit" VALUE="Login" style="font-family: Verdana"></font></P>
</FORM>
<p><font color="#2852A8" face="Verdana" size="2"><a href="emailpass.html">
<font color="#2852A8">Click here if would like your username and password to be
e-mailed to the address we have on file.</font></a></font></p>
</BODY>
</HTML>
```

## HISTORY

```
<?PHP
    session_start();
?>
<html>
<head>
<title>Sennex Express</title>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<!--Fireworks MX 2004 Dreamweaver MX 2004 target. Created Fri Dec 03 13:47:29 GMT-0800 (Pacific Standard
Time) 2004-->
<script language="JavaScript">
<!--
function MM_displayStatusMsg(msgStr) { //v3.0
    status=msgStr; document.MM_returnValue = true;
}

//-->
</script>
<link href="includes/format.css" rel="stylesheet" type="text/css">
</head>
<body bgcolor="#ffffff" leftmargin="0" topmargin="0">
<table border="0" cellpadding="0" cellspacing="0" width="766">
    <!-- fwTable fwsrc="sennex.png" fwbase="sennex.jpg" fwstyle="Dreamweaver" fwdocid = "2044438944" fwnested="0"
-->
    <?PHP include("includes/topnavbar.inc"); ?>
    <tr>
        <td colspan="8" background="../images/bgfade.jpg" height="500" valign="top"> <table align="center" width="98%">
            cellspacing="0" cellpadding="0">
                <tr>
                    <td align="center"> </td>
                </tr>
                </table>
                <div id="BackLayer" style="position:absolute; left:25px; top:131px; width:743px; height:385px; z-index:1"
class="shadow">
                    <table width="98%" align="center">
                        <tr>
                            <td valign="top" width="80%"> <ul>
                                <li class="li1s">Fundadores:
                                    <ul>
                                        <li class="li2s">Sr e Sra Aluisio de Sena</li>
                                        <li class="li2s">Sr Aluisio de Senna, Filho</li>
                                        <li class="li2s">Sr Alyson de Sena</li>
                                    </ul>
                                </li>
                            </ul>
                            <ul>
                                <li class="li1s">Começou:</li>
                                <ul>
                                    <li class="li2s">Planejamento - 2000</li>
                                    <li class="li2s">Pesquisas da industria - 2001</li>
                                </ul>
                            </ul>
                        </td></td>
                    <td valign="top"></td>
                </tr>
            </table>
        </div>
        <div id="TopLayer" style="position:absolute; left:22px; top:128px; width:743px; height:385px; z-index:1"
class="text">
            <table width="98%" align="center">
                <tr>
                    <td valign="top" width="80%"> <ul>
                        <li class="li1">Fundadores:
                            <ul>
                                <li class="li2">Sr e Sra Aluisio de Sena</li>
                                <li class="li2">Sr Aluisio de Senna, Filho</li>
```

```
<li class="li2">Sr Alyson de Sena</li>
</ul>
</li>
</ul>
<li class="li1">Começou:</li>
<ul>
<li class="li2">Planejamento - 2000</li>
<li class="li2">Pesquisas da industria - 2001</li>
</ul>
</li></td>
<td valign="top"></td>
</tr>
</table>
</div></td>
<?PHP include("includes/bottomnav.inc"); ?>
</table>
</body>
</html>
```

## PHP BARCODE IMAGE GENERATOR

```
<?php
/*=====
 * PHP Barcode Image Generator v1.0 [9/28/2000]
 * Copyright © 2000 by Charles J. Scheffold - cs@wsia.fm
```

-- UPDATE 09/21/2002 by Laurent NAVARRO - ln@altidev.com - http://www.altidev.com  
Updated to be compatible with register\_globals = off and on

-- UPDATE 4/6/2001 - Important Note! This script was written with the assumption that "register\_globals = On" is defined in your PHP.INI file! It will not work as-is and as described unless this is set. My PHP came with this enabled by default, but apparently many people have turned it off. Either turn it on or modify the startup code to pull the CGI variables in the old fashioned way (from the HTTP\* arrays). If you just want to use the functions and pass the variables yourself, well then go on with your bad self.

This code is hereby released into the public domain. Use it, abuse it, just don't get caught using it for something stupid. The only barcode type currently supported is Code 3 of 9. Don't ask about adding support for others! This is a script I wrote for my own use. I do plan to add more types as time permits but currently I only require Code 3 of 9 for my purposes. Just about every scanner on the market today can read it.

### PARAMETERS:

```
$barcode      = [required] The barcode you want to generate
$type        = (default=0) It's 0 for Code 3 of 9 (the only one supported)
$width       = (default=160) Width of image in pixels. The image MUST be wide enough to handle
the length of the given value. The default value will probably be able to display about 6 digits. If you get an error
message, make it wider!
$height      = (default=80) Height of image in pixels
$format      = (default=jpeg) Can be "jpeg", "png", or "gif"
$quality     = (default=100) For JPEG only: ranges from 0-100
$text        = (default=1) 0 to disable text below barcode, >=1 to enable
```

NOTE: You must have GD-1.8 or higher compiled into PHP in order to use PNG and JPEG. GIF images only work with GD-1.5 and lower. (<http://www.boutell.com>)

ANOTHER NOTE: If you actually intend to print the barcodes and scan them with a scanner, I highly recommend choosing JPEG with a quality of 100. Most browsers can't seem to print a PNG without mangling it beyond recognition.

### USAGE EXAMPLES FOR ANY PLAIN OLD HTML DOCUMENT:

```
<IMG SRC="barcode.php?barcode=HELLO&quality=75">
<IMG SRC="barcode.php?barcode=123456&width=320&height=200">
```

```
/*
=====*/
```

```
//-----
// Startup code
//-----
```

```
if(isset($_GET["text"])) $text=$_GET["text"];
if(isset($_GET["format"])) $format=$_GET["format"];
if(isset($_GET["quality"])) $quality=$_GET["quality"];
if(isset($_GET["width"])) $width=$_GET["width"];
if(isset($_GET["height"])) $height=$_GET["height"];
if(isset($_GET["type"])) $type=$_GET["type"];
if(isset($_GET["barcode"])) $barcode=$_GET["barcode"];

if (!isset ($text)) $text = 1;
if (!isset ($type)) $type = 1;
```

```

if (empty ($quality)) $quality = 100;
if (empty ($width)) $width = 160;
if (empty ($height)) $height = 80;
if (!empty ($format)) $format = strtoupper ($format);
else $format="PNG";

switch ($type)
{
    default:
        $type = 1;
    case 1:
        Barcode39 ($barcode, $width, $height, $quality, $format, $text);
        break;
}

//-----
// Generate a Code 3 of 9 barcode
//-----
function Barcode39 ($barcode, $width, $height, $quality, $format, $text)
{
    switch ($format)
    {
        default:
            $format = "JPEG";
        case "JPEG":
            header ("Content-type: image/jpeg");
            break;
        case "PNG":
            header ("Content-type: image/png");
            break;
        case "GIF":
            header ("Content-type: image/gif");
            break;
    }

    $im = ImageCreate ($width, $height)
    or die ("Cannot Initialize new GD image stream");
    $White = ImageColorAllocate ($im, 255, 255, 255);
    $Black = ImageColorAllocate ($im, 0, 0, 0);
    //ImageColorTransparent ($im, $White);
    ImageInterLace ($im, 1);

    $NarrowRatio = 20;
    $WideRatio = 55;
    $QuietRatio = 35;

    $nChars = (strlen($barcode)+2) * ((6 * $NarrowRatio) + (3 * $WideRatio) + ($QuietRatio));
    $Pixels = $width / $nChars;
    $NarrowBar = (int)(20 * $Pixels);
    $WideBar = (int)(55 * $Pixels);
    $QuietBar = (int)(35 * $Pixels);

    $ActualWidth = (($NarrowBar * 6) + ($WideBar*3) + $QuietBar) * (strlen ($barcode)+2);

    if (($NarrowBar == 0) || ($NarrowBar == $WideBar) || ($NarrowBar == $QuietBar) || ($WideBar == 0) || ($WideBar == $QuietBar) || ($QuietBar == 0))
    {
        ImageString ($im, 1, 0, 0, "Image is too small!", $Black);
        OutputImage ($im, $format, $quality);
        exit;
    }

    $CurrentBarX = (int)((width - $ActualWidth) / 2);
    $Color = $White;
    $BarcodeFull = "*".strtoupper ($barcode)."*";
    settype ($BarcodeFull, "string");
}

```

```

$FontNum = 3;
$FontHeight = ImageFontHeight ($FontNum);
$FontWidth = ImageFontWidth ($FontNum);
if ($text != 0)
{
    $CenterLoc = (int)((width-1) / 2) - (int)((($FontWidth * strlen($BarcodeFull)) / 2));
    ImageString ($im, $FontNum, $CenterLoc, $height-$FontHeight, "$BarcodeFull", $Black);
}

for ($i=0; $i<strlen($BarcodeFull); $i++)
{
    $StripeCode = Code39 ($BarcodeFull[$i]);

    for ($n=0; $n < 9; $n++)
    {
        if ($Color == $White) $Color = $Black;
        else $Color = $White;

        switch ($StripeCode[$n])
        {
            case '0':
                ImageFilledRectangle ($im, $CurrentBarX, 0, $CurrentBarX+$NarrowBar, $height-1-$FontHeight-2, $Color);
                $CurrentBarX += $NarrowBar;
                break;

            case '1':
                ImageFilledRectangle ($im, $CurrentBarX, 0, $CurrentBarX+$WideBar, $height-1-$FontHeight-2, $Color);
                $CurrentBarX += $WideBar;
                break;
        }
    }

    $Color = $White;
    ImageFilledRectangle ($im, $CurrentBarX, 0, $CurrentBarX+$QuietBar, $height-1-$FontHeight-2, $Color);
    $CurrentBarX += $QuietBar;
}
}

OutputImage ($im, $format, $quality);
}

//-----
// Output an image to the browser
//-----
function OutputImage ($im, $format, $quality)
{
    switch ($format)
    {
        case "JPEG":
            ImageJPEG ($im, "", $quality);
            break;
        case "PNG":
            ImagePNG ($im);
            break;
        case "GIF":
            ImageGIF ($im);
            break;
    }
}

//-----
// Returns the Code 3 of 9 value for a given ASCII character
//-----
function Code39 ($Asc)
{
    switch ($Asc)

```

```

{
    case ' ':
        return "011000100";
    case '$':
        return "010101000";
    case '%':
        return "000101010";
    case '**':
        return "010010100"; // * Start/Stop
    case '+':
        return "010001010";
    case '|':
        return "010000101";
    case '!':
        return "110000100";
    case '/':
        return "010100010";
    case '0':
        return "000110100";
    case '1':
        return "100100001";
    case '2':
        return "001100001";
    case '3':
        return "101100000";
    case '4':
        return "000110001";
    case '5':
        return "100110000";
    case '6':
        return "001110000";
    case '7':
        return "000100101";
    case '8':
        return "100100100";
    case '9':
        return "001100100";
    case 'A':
        return "100001001";
    case 'B':
        return "001001001";
    case 'C':
        return "101001000";
    case 'D':
        return "000011001";
    case 'E':
        return "100011000";
    case 'F':
        return "001011000";
    case 'G':
        return "000001101";
    case 'H':
        return "100001100";
    case 'I':
        return "001001100";
    case 'J':
        return "000011100";
    case 'K':
        return "100000011";
    case 'L':
        return "001000011";
    case 'M':
        return "101000010";
    case 'N':
        return "000010011";
    case 'O':
        return "100010010";
}

```

```
        case 'P':
            return "001010010";
        case 'Q':
            return "000000111";
        case 'R':
            return "100000110";
        case 'S':
            return "001000110";
        case 'T':
            return "000010110";
        case 'U':
            return "110000001";
        case 'V':
            return "011000001";
        case 'W':
            return "111000000";
        case 'X':
            return "010010001";
        case 'Y':
            return "110010000";
        case 'Z':
            return "011010000";
        default:
            return "011000100";
    }
}
?>
```

## FORM HANDLER

```
<?php
#####
# advanced form handler version 2.4 ( AFH v2.4 )      #
# Copyright 2002 Alexei V. Novikov crttag@cluxa.com      #
# Created: May 7, 2002                                #
# Last updated: September 7, 2004                      #
# http://www.cluxa.com/products/afh/                   #
#####
# Copyright Notice:                                    #
#               #
# You may not modify or remove this header.          #
# Selling or modifying code without prior written permission #
# of the author is expressly forbidden.           #
#               #
$AFH_VERSION = "2.4";                                #
#####
error_reporting( 0 );
/**general*/
$ADMIN_LOGIN  = "kiswitzel";
$ADMIN_PASS   = "kti1d94ztdD9Q";
$ADMIN_EMAIL  = "mysql@witzel.org";
$LICENSE_CODE = "";
$SKIP_REF_TEST = "";
/**general*/
$FORM = array();
/**forms_begin**/
/**forms_end**/
$separator = array( " ", ",", "\n" );
if( $SKIP_REF_TEST ){$is_skip_ref = "checked";}
else{$is_skip_ref = "";}
$CRYPT_SALT = substr( $ADMIN_LOGIN, 0, 2 );
$AFH_ERROR = array(
1=>"<p class='error'>You are not authorized to view this section!</p>
<p>If you think this is an error or you forgot your login/password, please refer to AFH documentation or request support.</p>
<p>If you trying to access admin section click
<a href='<_self_url>?admin'>here</a></p>",
2=>"<p class='error'>Couldn't save data - script file is not writeable.</p>
<p>Change script file permissions to rw-rw-rw (666) and click "Refresh".</p>",
3=>"<p class='error'>Couldn't delete form data - script file is not writeable.</p>
<p>Change script file permissions to rw-rw-rw (666) and click "Refresh".</p>",
4=>"<p class='error'>Invalid referer!</p>
<p>Form you submitted is not registered. Please refer to AFH documentation or request support.</p>",
5=>"<p class='error'>Can not proceed (no valid form ID)</p>
<p>AFH could not find form processing instructions. Possible reason for this - misspelled form ID. Please refer to AFH documentation or request support.</p>",
6=>"Copy of advanced form handler used to generate this email IS NOT REGISTERED! Please visit
http://www.cluxa.com/products/afh/ to register your copy or follow your documentation how to enter license code.",
7=>"\nYou tried to attach the file of the type that is not allowed by webmaster ($ADMIN_EMAIL). File was not attached!
Please contact webmaster for assistance.\n",
8=>"\nYou tried to attach the file that is larger then limit set by webmaster ($ADMIN_EMAIL). File was not attached!
Please try again or contact webmaster for the assistance.\n",
9=>"\nThere was an attempt to upload a file larger then limit you set for this form. Please check form settings or
consider this note as a hack attempt.\n\n",
10=>"\nThere was an attempt to attach a file of not allowed type. Please change settings of this form in advanced form
handler form managment area or consider this note as a hack attempt.\n\n"
);
function redirect( $url, $is_soft=FALSE ){
global $SERVER, $php_api;
if( !ereg( "http://", $url ) ){
$url = "http://" . $SERVER['HTTP_HOST'] . $url;
if( $is_soft || 'apache' != $php_api ){
echo "<META HTTP-EQUIV='Refresh' CONTENT='0;URL=$url'>";}
}
}
```

```

else {
header( "Location: $url" );
return TRUE;
}
function file_to_string( $path ){
$fp = @fopen( $path, "rb" );
if ( !$fp ) {
return FALSE;
}
$file_data = @fread( $fp, filesize ( $path ) );
@fclose( $fp );
return $file_data;
}
function allowed_type( $file_name, $form_id ){global $FORM;
foreach( $FORM[$form_id]['allowed_types'] AS $ext ){
if( eregi( ".{$ext}.$", $file_name ) ){
return true;
}
}
return false;
}
function separator( $str ){global $separator;
$not_one = "";foreach( $separator AS $char ){if( strstr( $str, $char ) ){$not_one = $char;}}
if( $not_one ){return $not_one;}
else return false;
}
function print_login () {
global $LOGIN_TMPL, $STYLE_TMPL, $SERVER;
$LOGIN_TMPL = str_replace ( "<_self_url>", $SERVER['PHP_SELF'], $LOGIN_TMPL );$LOGIN_TMPL = str_replace
("{{<_style>}}", $STYLE_TMPL, $LOGIN_TMPL );
echo $LOGIN_TMPL;
}
function update_file( $pattern, $subst ){global $SERVER;
$file_name = pathinfo( $SERVER['PHP_SELF'] );$code = file_to_string( $file_name['basename'] );
$code = str_replace( chr(13), "", $code );
$code = preg_replace( "%^". $pattern."%si", $subst, $code );
$fp = @fopen( $file_name['basename'], "w" );if( !$fp ) return FALSE;
$wr_res = @fputs ( $fp, $code, strlen ( $code ) );if( -1 == $wr_res ) return FALSE;
@fclose( $fp );
return TRUE;
}
function update_general( $login, $password, $email, $license, $skip_ref ){
global $ADMIN_LOGIN, $ADMIN_PASS, $LICENSE_CODE, $CRYPT_SALT;
$password = trim( $password );$email = trim( $email );$license = trim( $license );
if( "" == $license ){$license = $LICENSE_CODE;}
if( "" == $password ){$password = $ADMIN_PASS;}
else{$password = crypt( $password, $CRYPT_SALT);}
$new_settings = "/^.*general*/\n$ADMIN_LOGIN = '$ADMIN_LOGIN';\n$ADMIN_PASS =
'$password';\n$ADMIN_EMAIL = '$email';\n$LICENSE_CODE = '$license';\n$SKIP_REF_TEST =
'$skip_ref';\n//general*/";$pattern = "/^general*/\n//general*/";
return update_file( $pattern, $new_settings );
}
function update_form( $post_vars, $id=0 ){
if( !$id )
$id = time();
$form_title = trim( $post_vars['form_title'] );$form_url = trim( $post_vars['form_url'] );$form_thank = trim(
$post_vars['thank_you'] );$email_subj = trim( $post_vars['email_subject'] );$excl_var = trim( $post_vars['excl_vars'] );
$trans_names = trim( $post_vars['trans_names'] );$attach_var = trim( $post_vars['attach_var'] );$attach_size =
trim( $post_vars['attach_size'] );
$note_message = str_replace( chr(13), "", $post_vars['note_message'] );$note_message = str_replace( chr(10), '\n',
$note_message );$note_message = str_replace( "\r", "\n", $note_message );
$note_attach = urlencode ( trim ( $post_vars['note_attachment'] ) );
if( $post_vars['accept_attach'] ){$accept_attach = 1;}
else{$accept_attach = "";}
if( $post_vars['use_sender'] ){$use_sender = 1;}
else{$use_sender = "";}
$not_one = separator( $post_vars['allowed_types'] );
if( $not_one ){$allowed_types = explode( $not_one, $post_vars['allowed_types'] );}
else{$allowed_types = trim( $post_vars['allowed_types'] );}
if( $post_vars['back_note'] ){$back_note = 1;}
else{$back_note = "";}
$not_one = separator( $post_vars['email'] );
if( $not_one ){$email = explode( $not_one, $post_vars['email'] );}
else{$email = trim( $post_vars['email'] );}
if( $excl_var ){
$not_one = separator( $excl_var );if( $not_one ){$excl_var = explode( $not_one, $excl_var );}
if( $trans_names ){

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$not_one = separator( $trans_names );if( $not_one ){$trans_names = explode( $not_one, $trans_names );}
if( is_array( $post_vars['env'] ) ){$enviroment = $post_vars['env'];}
$FORM[$id]['trans_names'] = array();$FORM[$id]['env'] = array();$FORM[$id]['allowed_types'] = array();
$FORM[$id]['title'] = $form_title;$FORM[$id]['url'] = $form_url;$FORM[$id]['thank'] =
$form_thank;$FORM[$id]['emailsubj'] = $email_subj;$FORM[$id]['use_sender'] = $use_sender;
$FORM[$id]['accept_attach'] = $accept_attach;$FORM[$id]['attach_var'] = $attach_var;$FORM[$id]['attach_size'] =
$attach_size;$FORM[$id]['back_note'] = $back_note;$FORM[$id]['note_message'] =
$note_message;$FORM[$id]['note_attach'] = $note_attach;
if( is_array( $allowed_types ) )
$FORM[$id]['allowed_types'] = $allowed_types;else
$FORM[$id]['allowed_types'][] = $allowed_types;
if( is_array( $email ) )
$FORM[$id]['email'] = $email;else
$FORM[$id]['email'][] = $email;
if( is_array( $excl_var ) )
$FORM[$id]['excl_vars'] = $excl_var;else
$FORM[$id]['excl_vars'][] = $excl_var;
if( is_array( $trans_names ) ){foreach( $trans_names AS $val ){$rule = explode( ">", $val );
$FORM[$id]['trans_names'][$rule[0]] = $rule[1];}}
elseif( $trans_names ){$rule = explode( ">", $trans_names );$FORM[$id]['trans_names'][$rule[0]] = $rule[1];}
if( iset( $enviroment ) ){$FORM[$id]['env'] = $enviroment;}
return form_data_write( $FORM );
function form_data_write( $fd ){
global $FORM;
$update = 0;
list( $fd_id, $fd_data ) = each( $fd );
if( iset( $FORM[$fd_id] ) ){unset( $FORM[$fd_id] );
$update = 1;}
$FORM[$fd_id] = $fd_data;
$fd_code = //form$fd_id*//\n;$fd_code .= "\$FORM[$fd_id]['title'] = \" . $FORM[$fd_id]['title']. \";\n";
$fd_code .= "\$FORM[$fd_id]['url'] = \" . $FORM[$fd_id]['url']. \";\n";
$fd_code .= "\$FORM[$fd_id]['thank'] = \" . $FORM[$fd_id]['thank']. \";\n";
$fd_code .= "\$FORM[$fd_id]['emailsubj'] = \" . $FORM[$fd_id]['emailsubj']. \";\n";
$fd_code .= "\$FORM[$fd_id]['use_sender'] = \" . $FORM[$fd_id]['use_sender']. \";\n";
$fd_code .= "\$FORM[$fd_id]['accept_attach'] = \" . $FORM[$fd_id]['accept_attach']. \";\n";
$fd_code .= "\$FORM[$fd_id]['attach_var'] = \" . $FORM[$fd_id]['attach_var']. \";\n";
$fd_code .= "\$FORM[$fd_id]['attach_size'] = \" . $FORM[$fd_id]['attach_size']. \";\n";
$fd_code .= "\$FORM[$fd_id]['back_note'] = \" . $FORM[$fd_id]['back_note']. \";\n";
$fd_code .= "\$FORM[$fd_id]['note_message'] = \" . $FORM[$fd_id]['note_message']. \";\n";
$fd_code .= "\$FORM[$fd_id]['note_attach'] = \" . $FORM[$fd_id]['note_attach']. \";\n";
$fd_code .= "\$FORM[$fd_id]['note_attach']. \";\n";
$fd_code .= "\$FORM[$fd_id]['allowed_types'] = array(\";foreach( $FORM[$fd_id]['allowed_types']
AS $attach_type ){$fd_attach_type = \" . trim( $attach_type ). \";}"
$fd_attach_type = substr( $fd_attach_type, 0, (strlen($fd_attach_type)-1) );$fd_code .= $fd_attach_type.);\n";
$fd_code .= "\$FORM[$fd_id]['email'] = array(\";foreach( $FORM[$fd_id]['email'] AS
$email_val ){$fd_email_code = \" . trim( $email_val ). \";}"
$fd_email_code = substr( $fd_email_code, 0, (strlen($fd_email_code)-1) );$fd_code .= $fd_email_code.);\n";
$fd_code .= "\$fd_email_code = substr( $fd_email_code, 0, (strlen($fd_email_code)-1) );$fd_code .= $fd_email_code.);\n";
$fd_code .= "\$FORM[$fd_id]['excl_vars'] = array(\";foreach( $FORM[$fd_id]['excl_vars'] AS
$excl_val )(if( trim( $excl_val ) ){$fd_excl_code = \" . trim( $excl_val ). \";}"
$fd_excl_code = substr( $fd_excl_code, 0, (strlen($fd_excl_code)-1) );$fd_code .= $fd_excl_code.);\n";
$fd_code .= "\$fd_excl_code = substr( $fd_excl_code, 0, (strlen($fd_excl_code)-1) );$fd_code .= $fd_excl_code.);\n";
$fd_code .= "\$FORM[$fd_id]['trans_names'] = array(\";foreach( $FORM[$fd_id]['trans_names']
AS $rule>$rule_val )(if( trim( $rule_val ) ){$fd_trans_code = \" . trim( $rule ). \"=>\" . trim( $rule_val ). \";}"
$fd_trans_code = substr( $fd_trans_code, 0, (strlen($fd_trans_code)-1) );$fd_code .= $fd_trans_code.);\n";
$fd_code .= "\$fd_env_code = substr( $fd_env_code, 0, (strlen($fd_env_code)-1) );$fd_code .= $fd_env_code.);\n";
$fd_code .= "\$fd_env_code = substr( $fd_env_code, 0, (strlen($fd_env_code)-1) );$fd_code .= $fd_env_code.);\n";
$fd_code .= //form$fd_id*//;
if( $update ){$pattern = /*form$fd_id*//*form$fd_id*/}
else{$pattern = /*forms_end*//*$fd_code .= \n . /*forms_end*/}
return update_file( $pattern, $fd_code );
function list_forms(){global $FORM, $FORM_LIST_TMPL, $EMPTY_LIST_TMPL ;
$form_list = "";
if( sizeof( $FORM ) ){
foreach( $FORM AS $form_id=>$form_data ){$tmp_list = $FORM_LIST_TMPL;$tmp_list = str_replace( "<_form_id>",
$form_id, $tmp_list );$tmp_list = str_replace( "<_form_title>", $form_data['title'], $tmp_list );$tmp_list = str_replace(
"<_form_view>", $form_data['url'], $tmp_list );$form_list .= $tmp_list;}
else{$tmp_list = $EMPTY_LIST_TMPL;$tmp_list = str_replace( "<_warning>", "<span class='warning'>no forms
registered yet!</span>", $tmp_list );$form_list .= $tmp_list;}
return $form_list;}

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function prefill_form( $form_id=0 ){global $FORM, $FORM_TMPL, $separator;
if( $form_id ){$title = $FORM[$form_id]['title'];$url = $FORM[$form_id]['url'];$thank = $FORM[$form_id]['thank'];$subj = $FORM[$form_id]['emailsubj'];
$attach_var = $FORM[$form_id]['attach_var'];$attach_size = $FORM[$form_id]['attach_size'];
$note_mess = $FORM[$form_id]['note_message'];$note_mess = str_replace( "\n", chr(10), $note_mess );$note_mess = str_replace( " ", "", $note_mess );
$note_attach = urldecode( $FORM[$form_id]['note_attach'] );
$allowed_types = implode( $separator[1], $FORM[$form_id]['allowed_types'] );
$email = implode( $separator[0], $FORM[$form_id]['email'] );$excl = implode( $separator[0],
$FORM[$form_id]['excl_vars'] );
$trans = "";foreach( $FORM[$form_id]['trans_names'] AS $rule=>$rule_val ){$trans .= $rule."->".$rule_val."\n";}
if( $FORM[$form_id]['use_sender'] )($FORM_TMPL = str_replace( "<_form_use_sender>", "checked", $FORM_TMPL
));
if( $FORM[$form_id]['accept_attach'] )($FORM_TMPL = str_replace( "<_form_accept_attach>", "checked",
$FORM_TMPL ));
if( $FORM[$form_id]['back_note'] )($FORM_TMPL = str_replace( "<_form_back_note>", "checked", $FORM_TMPL
));
foreach( $FORM[$form_id]['env'] AS $env_val )($FORM_TMPL = str_replace( "<_form_$env_val>", "checked",
$FORM_TMPL
));
$FORM_TMPL = str_replace( "<_form_title>", $title, $FORM_TMPL );$FORM_TMPL = str_replace(
"<_form_url>", $url, $FORM_TMPL );$FORM_TMPL = str_replace( "<_form_thank>", $thank,
$FORM_TMPL );$FORM_TMPL = str_replace( "<_form_emailsubj>", $subj, $FORM_TMPL );$FORM_TMPL =
str_replace( "<_form_email>", $email, $FORM_TMPL );$FORM_TMPL = str_replace(
"<_form_attach_var>", $attach_var, $FORM_TMPL );$FORM_TMPL = str_replace( "<_form_attach_size>",
$attach_size, $FORM_TMPL );$FORM_TMPL = str_replace( "<_form_allowed_types>", $allowed_types,
$FORM_TMPL );$FORM_TMPL = str_replace( "<_form_note_message>", $note_mess, $FORM_TMPL
);$FORM_TMPL = str_replace( "<_form_note_attachment>", $note_attach, $FORM_TMPL );$FORM_TMPL =
str_replace( "<_form_excl>", $excl, $FORM_TMPL );$FORM_TMPL = str_replace( "<_form_trans>",
$trans, $FORM_TMPL );
$FORM_TMPL = eregi_replace( "<_form_[^>]+>", "", $FORM_TMPL );
return $FORM_TMPL;}
function delete_form( $form_id=0 ){if( !form_id ){return false;}
$pattern = "/^form$form_id\//i/*form$form_id\//";
return update_file( $pattern, "" );}
function print_error( $err_num ){global $AFH_ERROR, $ERROR_TMPL, $STYLE_TMPL, $SERVER;
$ERROR_TMPL = str_replace( "<_error_content>", $AFH_ERROR[$err_num], $ERROR_TMPL );$ERROR_TMPL =
str_replace( "<_self_url>", $SERVER['PHP_SELF'], $ERROR_TMPL );$ERROR_TMPL = str_replace( "<_style>",
$STYLE_TMPL, $ERROR_TMPL );
echo $ERROR_TMPL;}
function password_empty(){global $ADMIN_PASS, $ADMIN_LOGIN, $CRYPT_SALT;
$empty_pass = crypt( "", $CRYPT_SALT );
if( $ADMIN_PASS == $empty_pass ){return "warning: password is not set!";}
else return "password okay";}
function valid_license(){global $LICENSE_CODE, $ADMIN_EMAIL, $ADMIN_LOGIN, $CRYPT_SALT;
$code = crypt( $ADMIN_EMAIL, $CRYPT_SALT );
if( $code == $LICENSE_CODE ){return "license okay";}
else return "warning: not registered copy";}
function valid_referer( $referer ){global $FORM;
if( empty( $referer ) ){return false;}
$referer = eregi_replace( "http[s]://([w]{3}\.)?", "", $referer );
foreach( $FORM AS $id=>$data ){
if( eregi( $referer, $FORM[$id]['url'] ) ){return $id;}
}
return false;}
function exclude_vars( $fd, $id ){global $FORM;
foreach( $fd AS $var_name=>$val ){if( in_array( $var_name, $FORM[$id]['excl_vars'] ) ){unset( $fd[$var_name] );}}
return $fd;}
function make_email( $fd, $id ){
global $FORM, $AFH_ERROR, $SERVER;
$names_to_trans = array_keys( $FORM[$id]['trans_names'] );
$mail_body = "\n~~~~~\n";$mail_body .= "Form data:\n\n";
foreach( $fd AS $var_name=>$var_val ){
if( is_array( $var_val ) ){
foreach( $var_val AS $ar_val ){
$ar_val = stripslashes( $ar_val );
if( in_array( $var_name, $names_to_trans ) ){$mail_body .= $FORM[$id]['trans_names'][$var_name].":\t".$ar_val."\n";}
else{
$name_niced = str_replace( " ", "", $var_name );
$mail_body .= $name_niced."\t".$ar_val."\n";}
} elseif( " != trim( $var_val ) ){

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$var_val = stripslashes( $var_val );
if( in_array( $var_name, $names_to_trans ) ){$mail_body .= $FORM[$id]['trans_names'][$var_name].":\".$var_val."\n";}
else{
$name_niced = str_replace( "_", " ", $var_name );
$mail_body .= $name_niced."\n".$var_val."\n"}}

$mail_body .= "\n~~~~~\n";
if( sizeof( $FORM[$id]['env'] ) ){
$mail_body .= "Enviroment variables:\n\n";
foreach( $FORM[$id]['env'] AS $env_name ){
$mail_body .= "$env_name :\n$SERVER[$env_name]\n";
$mail_body .= "\n~~~~~\n";
}
$mail_body .= "\n\n";
if( valid_license() != "license okay" ){$mail_body = $AFH_ERROR[6] . $mail_body . $AFH_ERROR[6];}
return $mail_body;
}

$BODY_TMLP = <<<EOD
<html>
<head>
<title><_title></title>
<style>
<_style>
</style>
<script>
var helpWin = "";
helpHeader = '<_help_header>';helpFooter = '<_help_footer>';
ht1 = '<p class=\''help'\>form title</p>
<p class=\''helptext'\>This is a name of the form that will be used in the form management section. Also if you will leave email subject empty then form title will be used for the automatic generated subject.</p>';
ht2 = '<p class=\''help'\>form url</p>
<p class=\''helptext'\>Full "absolute" URL of the form, e.g. "http://www.server.com/form.html".</p>';
ht3 = '<p class=\''help'\>"thank you" page</p>
<p class=\''helptext'\>Full "absolute" URL of the page to which user will be redirected after form submission and processing, e.g. "http://www.server.com/thanks.html".</p>';
ht4 = '<p class=\''help'\>email address</p>
<p class=\''helptext'\>Email address or addresses to which form information will be sent. Multiple entries should be separated by comma "," or semicolon ";".</p>';
ht5 = '<p class=\''help'\>email subject</p>
<p class=\''helptext'\>Optional. This string will be used as email subject, if empty then subject will be automatically generated using form title. The form variable(s) can be used in this field using following notation:
<nobr><span class=\''warning'\>%%html_variable_name%%</span></nobr> - it will be substituted with corresponding value.</p>';
ht6 = '<p class=\''help'\>excluded variables</p>
<p class=\''helptext'\>Optional. Variable or variables to be excluded from the email, e.g. submit button name or form name. Multiple entries should be separated by comma "," or semicolon ";".</p>';
ht7 = '<p class=\''help'\>transform names</p>
<p class=\''helptext'\>Optional. Use this ability to transform "ugly" variable names on output to something looking good and easy to understand. Each transformation rule to be placed on the separate line. Example:</p>
<p class=\''helptext'\>f_name->First Name<br>l_name->Last Name</p>';
ht8 = '<p class=\''help'\>REMOTE_ADDR</p>
<p class=\''helptext'\>Optional. Check this box if you want to include to email user's IP address. This may be helpful if you want to track user's IPs for security reasons for instance.</p>';
ht9 = '<p class=\''help'\>HTTP_ACCEPT_LANGUAGE</p>
<p class=\''helptext'\>Optional. Check this box if you want to include to email user's language settings. This may be helpful when you need to track language of your visitors.</p>';
ht10 = '<p class=\''help'\>HTTP_USER_AGENT</p>
<p class=\''helptext'\>Optional. Check this box if you want to include to email user's browser information. This may be helpful when you need to track browser type of your visitors.</p>';
ht11 = '<p class=\''help'\>admin login</p>
<p class=\''helptext'\>This login you will be prompted when using this script as administrator. It can not be changed. If you want to do so then request support.</p>';
ht12 = '<p class=\''help'\>admin password</p>
<p class=\''helptext'\>This password you will be prompted when using this script as administrator. Field is empty, but enter here anything only if you would like to update your password or you are logged first time. Please remember it, cause there's no way to recover it since it'll be crypted.</p>';
ht13 = '<p class=\''help'\>confirm password</p>
<p class=\''helptext'\>Confirm password you typed in the first password field. These values will be compared to avoid typing mistakes.</p>';

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ht14 = '<p class=\''help'\>admin email</p>
<p class=\''helptext'\>Your primary email you provided when you registered this script where you would like to receive notifications. Before changing this field please <a href=\''http://www.cluxa.com/products/afh/license.shtml'\>visit us</a> to get new license code. This will take only a minute to update your license information.</p>';
ht15 = '<p class=\''help'\>skip referer test</p>
<p class=\''helptext'\>Use this option only if you experience problems with referer test - please read our <a href=\''http://www.cluxa.com/products/afh/doc/faq.shtml'\>FAQ</a> before!</p>';
ht16 = '<p class=\''help'\>license code</p>
<p class=\''helptext'\>Type here or copy and paste license code you received when you registered this copy. You will need it for the future upgrades also. If you dont have license code, please <a href=\''http://www.cluxa.com/products/afh/license.shtml'\>visit us</a> to get one.</p>';
ht17 = '<p class=\''help'\>accept attachment</p>
<p class=\''helptext'\>Check this box if you want to enable AFH to attach file to email using form file upload. Please refer to online docs to see how to setup the form for multiple attachments.</p>';ht18 = '<p class=\''help'\>max attachment size</p>
<p class=\''helptext'\>Type here the maximum size of file in kilobytes that you want script to attach to email. If uploaded file size will be larger then this value then no file will be attached, but warning message will be added to the email and if "send back notification" feature is enabled then warning message will be added to back email.</p>';
ht19 = '<p class=\''help'\>allowed attachment types</p>
<p class=\''helptext'\>List here file types you want to accept in attachments, for example if you want to allow attaching only some image file types then type here following: <span class=\''warning'\>gif;jpeg;png;psd</span>.<br>You can separate values by comma ',', or semicolon ';'</p>';
ht20 = '<p class=\''help'\>send back notification</p>
<p class=\''helptext'\>Check this box if you want script to send back notification to the user who submitted form. In order to have this feature work you have to include to your form text field called "email" so users will be able to type their email address. The email will be having first email address in recipients list as sender.</p>';
ht21 = '<p class=\''help'\>notification message</p>
<p class=\''helptext'\>This is the message that will be sent back to person submitted this form if feature is enabled. You can use posted data values in this message by following this notation: <nobr><span class=\''warning'\>%<html_variable_name%</span></nobr> - it will be substituted with corresponding value.</p>';
ht22 = '<p class=\''help'\>file upload varible name</p>
<p class=\''helptext'\>Type here variable name used in HTML form code to upload files. This name can look like this: &lt;input type='file' name='<span class=\''warning'\>user_file</span>'&gt;<br>Just copy and paste this name into text field. If empty, then script will assume that it's called '<span class=\''warning'\>file</span>'</p>';
ht23 = '<p class=\''help'\>use sender email address</p>
<p class=\''helptext'\>Check this option on if you want to use sender email address in email header in From and Replay-To sections. This allows you to replay to the form sender without copying one's email address and useful when you use AFH in customer support systems.<br>Form input element that holds email address must have name "email".</p>';
ht24 = '<p class=\''help'\>optional attachment</p>
<p class=\''helptext'\>set it to the optional attachment path to be included with notification message. You can use either absolute or relative filesystem path. If empty or non-existing path would be provided, error message will be included into email.</p>';
function openHelp( topic_content ){help = helpHeader + topic_content + helpFooter;winOpen( help );}
function winOpen( content ){w_height = 325;w_width = 300;
leftPos = (screen.width - w_width) / 2;topPos = (screen.height - w_height) * 0.8 / 2;
win_features =
'dependent=0,directories=0,location=0,menubar=0,personalbar=0,resizable=0,scrollbars=0,status=0,height=' + w_height + ',width=' + w_width + ',left=' + leftPos + ',top=' + topPos;
helpWin = window.open( "", 'afhHelp',
win_features);helpWin.document.open();helpWin.document.write(content);helpWin.document.close();
helpWin.focus();}
function winClose(){helpWin.close();helpWin = "";}
function onlyNumber( key_code ){if( (key_code < 48 || key_code > 57) && key_code!=44 && key_code!=46 ) {return false;}
else return true;}
function deleteWarn(){return ( confirm('This will delete form settings and it is not undoable.') && confirm('Are you sure?') );}
function validEmail( email ){mailRE = new RegExp( );mailRE.compile( '^[\w\.-]+@[^\w\.-]+\.\w{1}\w{2,4}$', 'gi' );
return mailRE.test( email );}
function validURL( url ){urlRE = new RegExp( );urlRE.compile( '^http[s]?://[^$]+$', 'gi' );
return urlRE.test( url );}
function isEmpty( str ){strRE = new RegExp( );strRE.compile( '^\s*$','gi' );
return strRE.test( str );}
function checkForm( form ){

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</style>
</head>
<body>
<table border='0' cellpadding='0' cellspacing='0' width='700' height='500' align='center'>
<tr>
<td width='20%">&nbsp;</td>
<td valign='middle' width='60%'>
<_error_content>
</td>
<td width='20%">&nbsp;</td>
</tr>
<tr>
<td colspan='3' align='right'>
<p>contact webmaster at <a href='mailto:$ADMIN_EMAIL'>$ADMIN_EMAIL</a></p>
</td>
</tr>
</table>
</body>
</html>
EOD;
$GENERAL_TMPL = <<<EOD
<table border='0' cellpadding='0' cellspacing='3' width='100%' align='center'>
<form action='<_self_url>?cmd=update_general' method='post'>
<tr>
<td colspan='2' align='center'><span class='title'>general settings</span></td>
</tr>
<tr>
<td colspan='2' height='20' class='spacer'>&nbsp;</td>
</tr>
<tr>
<td align='right' width='33%'>admin login</td>
<td width='67%'><input type='text' size='10' value='$ADMIN_LOGIN' class='formelement' disabled>&nbsp;<a href='javascript: openHelp(ht11);' class='help'>?</a></td>
</tr>
<tr>
<td align='right'>admin password</td>
<td><input type='password' name='admin_pass1' id='admin_pass1' size='10' class='formelement'>&nbsp;<a href='javascript: openHelp(ht12);' class='help'>?</a>&nbsp;<span class='warning'><_empty_pass></span></td>
</tr>
<tr>
<td align='right'>confirm password</td>
<td><input type='password' name='admin_pass2' id='admin_pass2' size='10' class='formelement'>&nbsp;<a href='javascript: openHelp(ht13);' class='help'>?</a></td>
</tr>
<tr>
<td colspan='2' height='20' class='spacer'>&nbsp;</td>
</tr>
<tr>
<td align='right'>admin email</td>
<td><input type='text' name='admin_email' id='admin_email' size='25' value='$ADMIN_EMAIL' class='formelement'>&nbsp;<a href='javascript: openHelp(ht14);' class='help'>?</a></td>
</tr>
<tr>
<td colspan='2' height='20' class='spacer'>&nbsp;</td>
</tr>
<tr>
<td align='right'>skip referer test</td>
<td><input type='checkbox' name='skip_ref' id='skip_ref' value='1' class='formelement' $is_skip_ref>&nbsp;<a href='javascript: openHelp(ht15);' class='help'>?</a></td>
</tr>
<tr>
<td colspan='2'><div class='spacer' style='width: 100%; height: 20px;'></div></td>
</tr>
<tr>
<td align='right'>license code</td>

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```

<td><input type='text' name='license_code' id='license_code' size='25' value='$LICENSE_CODE'
class='formelement'>&nbsp;<a href='javascript: openHelp(ht16);' class='help'>?</a>&nbsp;<span
class='warning'><_license_status></span></td>
</tr>
</tr>
<td colspan='2' height='20' class='spacer'>&nbsp;</td>
</tr>
<tr>
<td></td>
<td height='35'><input type='submit' value='Update' class='formelement' onclick='return
checkGeneral(document.forms[0]);'></td>
</tr>
</form>
</table>
EOD;
$MANAGE_TMPL = <<<EOD
<table border='0' cellpadding='0' cellspacing='3' width='100%' align='center'>
<tr>
<td colspan='4' align='center'><span class='title'>manage forms</span></td>
</tr>
<tr>
<td colspan='4' height='20' class='spacer'>&nbsp;</td>
</tr>
<_forms>
<tr>
<td colspan='4' height='20' class='spacer'>&nbsp;</td>
</tr>
</table>
EOD;
$FORM_LIST_TMPL = <<<EOD
<tr>
    <td width='15%' class='lightrow' align='center'><a href='<_form_view>' target='_blank'>view</a></td>
    <td width='55%' class='lightrow'><_form_id> <span class='formtitle'><_form_title></span></td>
    <td width='15%' align='center' class='lightrow'><a href='<_self_url>?page=manage&id=<_form_id>'>edit</a></td>
    <td width='15%' align='center' class='lightrow'><a href='<_self_url>?page=manage&cmd=delete_form&id=<_form_id>' onclick='return deleteWarn()'>delete</a></td>
</tr>
EOD;
$EDIT_TMPL = <<<EOD
<table border='0' cellpadding='0' cellspacing='3' width='100%' align='center'>
<form action='<_self_url>?cmd=update_form&id=<_form_id>' method='post'>
<tr>
<td colspan='2' align='center'><span class='title'>edit form</span></td>
</tr>
<tr>
<td colspan='2' height='20' class='spacer'>&nbsp;</td>
</tr>
<_form>
<tr>
<td colspan='2' height='20' class='spacer'>&nbsp;</td>
</tr>
<tr>
<td></td>
<td height='35'><input type='submit' value='Update form' class='formelement' onclick='return
checkForm(this.form);'></td>
</tr>
</form>
</table>
EOD;
$EMPTY_LIST_TMPL = <<<EOD
<tr>
<td colspan='4' width='100%' class='lightrow' align='center'><_warning></td>
</tr>
EOD;
$ADD_FORM_TMPL = <<<EOD
<table border='0' cellpadding='0' cellspacing='3' width='100%' align='center'>
<form action='<_self_url>?cmd=add_form' method='post'>

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<tr>
<td colspan='2' align='center'><span class='title'>add new form</span></td>
</tr>
<tr>
<td colspan='2' height='20' class='spacer'>&nbsp;</td>
</tr>
<_form>
<tr>
<td colspan='2' height='20' class='spacer'>&nbsp;</td>
</tr>
<tr>
<td></td>
<td height='35'><input type='submit' value='Add new form' class='formelement' onclick='return
checkForm(this.form);'></td>
</tr>
</form>
</table>
EOD;
$FORM_TMPL = <<<EOD
<tr>
<td align='right' width='33%'>form title</td>
<td width='67%'><input type='text' name='form_title' id='form_title' size='42' class='formelement'
value='<_form_title>'>&nbsp;<a href='javascript: openHelp(ht1);' class='help'>?</a></td>
</tr>
<tr>
<td align='right'>form url</td>
<td><input type='text' name='form_url' id='form_url' size='42' class='formelement' value='<_form_url>'>&nbsp;<a
href='javascript: openHelp(ht2);' class='help'>?</a></td>
</tr>
<tr>
<td align='right'>&quot;thankyou&quot; page</td>
<td><input type='text' name='thank_you' id='thank_you' size='42' class='formelement'
value='<_form_thank>'>&nbsp;<a href='javascript: openHelp(ht3);' class='help'>?</a></td>
</tr>
<tr>
<td colspan='2' height='20' class='spacer'>&nbsp;</td>
</tr>
<tr>
<td align='right'>email address</td>
<td><input type='text' name='email' id='email' size='42' class='formelement' value='<_form_email>'>&nbsp;<a
href='javascript: openHelp(ht4);' class='help'>?</a></td>
</tr>
<tr>
<td align='right'>email subject</td>
<td><input type='text' name='email_subject' id='email_subject' size='42' class='formelement'
value='<_form_emailsubj>'>&nbsp;<a href='javascript: openHelp(ht5);' class='help'>?</a></td>
</tr>
<tr>
<td align='right'>use sender email</td>
<td><input type='checkbox' name='use_sender' id='use_sender' value='1' <_form_use_sender>>&nbsp;<a
href='javascript: openHelp(ht23);' class='help'>?</a></td>
</tr>
<tr>
<td colspan='2' height='20' class='spacer'>&nbsp;</td>
</tr>
<tr>
<td align='right'>accept attachment</td>
<td><input type='checkbox' name='accept_attach' id='accept_attach' value='1' <_form_accept_attach>>&nbsp;<a
href='javascript: openHelp(ht17);' class='help'>?</a></td>
</tr>
<tr>
<td align='right'>file upload varible name</td>
<td><input type='text' name='attach_var' id='attach_var' size='10' class='formelement'
value='<_form_attach_var>'>&nbsp;<a href='javascript: openHelp(ht22);' class='help'>?</a></td>
</tr>
<tr>
<td align='right'>max attachment size (kb)</td>

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<td><input type='text' name='attach_size' id='attach_size' size='10' class='formelement' value='<_form_attach_size>' onkeypress='event.returnValue=onlyNumber(event.keyCode);' maxlength='5'>&ampnbsp<a href='javascript:openHelp(ht18);' class='help'>?</a></td>
</tr>
<tr>
<td align='right'>allowed attachment types</td>
<td><input type='text' name='allowed_types' id='allowed_types' size='42' class='formelement' value='<_form_allowed_types>' value='<_form_attach_size>'>&ampnbsp<a href='javascript: openHelp(ht19);' class='help'>?</a></td>
</tr>
<tr>
<td colspan='2' height='20' class='spacer'>&ampnbsp</td>
</tr>
<tr>
<td align='right'>send back notification</td>
<td><input type='checkbox' name='back_note' id='back_note' value='1' <_form_back_note>>&ampnbsp<a href='javascript: openHelp(ht20);' class='help'>?</a></td>
</tr>
<tr>
<td align='right' valign="top">message</td>
<td><textarea name='note_message' width="300" id='note_message' cols='40' rows='15'><_form_note_message>&ampnbsp<a href='javascript: openHelp(ht21);' class='help'>?</a></td>
</tr>
<tr>
<td align='right'>optional attachment</td>
<td><input type='text' name='note_attachment' id='note_attachment' size='42' class='formelement' value='<_form_note_attachment>' value='<_form_note_attachment>'>&ampnbsp<a href='javascript: openHelp(ht24);' class='help'>?</a></td>
</tr>
<tr>
<td colspan='2' height='20' class='spacer'>&ampnbsp</td>
</tr>
<tr>
<td align='right'>excluded variables</td>
<td><input type='text' name='excl_vars' id='excl_vars' size='42' class='formelement' value='<_form_excl>'>&ampnbsp<a href='javascript: openHelp(ht6);' class='help'>?</a></td>
</tr>
<tr>
<td valign='top' align='right'>transform names</td>
<td valign='top'><span class='formelement'><textarea name='trans_names' width="300" id='trans_names' cols='40' rows='15'><_form_trans></textarea></span>&ampnbsp<a href='javascript: openHelp(ht7);' class='help'>?</a></td>
</tr>
<tr>
<td colspan='2' height='20' class='spacer'>&ampnbsp</td>
</tr>
<tr>
<td align='right'>environment variables</td>
<td>
<input type='checkbox' name='env[]' id='env[]' value='REMOTE_ADDR' <_form_REMOTE_ADDR>>REMOTE_ADDR&ampnbsp<a href='javascript: openHelp(ht8);' class='help'>?</a><br>
<input type='checkbox' name='env[]' id='env[]' value='HTTP_ACCEPT_LANGUAGE' <_form_HTTP_ACCEPT_LANGUAGE>>HTTP_ACCEPT_LANGUAGE&ampnbsp<a href='javascript: openHelp(ht9);' class='help'>?</a><br>
<input type='checkbox' name='env[]' id='env[]' value='HTTP_USER_AGENT' <_form_HTTP_USER_AGENT>>HTTP_USER_AGENT&ampnbsp<a href='javascript: openHelp(ht10);' class='help'>?</a><br>
</td>
</tr>
<tr>
EOD;
$LOGIN_TEMPL = <<<EOD
<html>
<head>
<title>AHF @ login</title>
<style>
<_style>
</style>
</head>

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<body>
<table border='0' cellpadding='0' cellspacing='0' width='700' height='500' align='center'>
<form action="<_self_url>?admin" method="post">
<tr>
<td width='20%'>&nbsp;</td>
<td valign='middle' align='center' width='60%'>
<span class="title">please login</span><br><br>
<table border="0" cellpadding="0" cellspacing="3">
<tr>
<td align="right">login:</td>
<td><input type="text" name="user" size="10" class="formElement"></td>
</tr>
<tr>
<td align="right">password:</td>
<td><input type="password" name="pw" size="10" class="formElement"></td>
</tr>
<tr>
<td align="right">&nbsp;</td>
<td><input type="submit" value="Log in" class="formElement"></td>
</tr>
</table>
</td>
<td width='20%'>&nbsp;</td>
</tr>
<tr>
<td colspan='3' align='right'>
<p>contact webmaster at <a href='mailto:$ADMIN_EMAIL'>$ADMIN_EMAIL</a></p>
</td>
</tr>
</form>
</table>
</body>
</html>
EOD;
$STYLE_TMPL = <<<EOD
body,p {font: 14px/20px verdana, arial;color: #000000;background-color: white;margin: 0px;padding: 10px;}
p {text-align: justify;}
td, th {font: 14px/20px verdana, arial;color: #000000;background-color: white;}
a {
color: #000000;background-color: transparent;}
a:hover {color: #0066cc;}
.spacer{background-color: #e6e6e6;}
.title {font-size: 18px;color: #0066cc;}
.formelement {font-family: courier;font-size: 15px;color: #000033;background-color: #FFFFFF;}
.lightrow{background-color: #F8F8F8;}
.formtitle{font-weight: bold;}
.note{color: #CCCCCC;}
.help{font-weight: bold;color: #FF6600;font-size: 18px;}
.helpText{text-align: justify;}
.warning{color: #FF3300;font-size: 14px;}
.error{color: #FF3300;font-size: 20px;font-weight: bold;}
EOD;
$php_ver = phpversion ();$php_api = php_sapi_name ();
if( intval(substr( $php_ver, 0, 1 )) >= 4 AND intval(substr( $php_ver, 2, 1 )) >= 1 ){
$POST = $_POST;$GET = $_GET;$COOKIE = $_COOKIE;$FILES = $_FILES;
if ('cgi' == $php_api ) {
$SERVER = $ENV; } else {
$SERVER = $SERVER; }
} else{
$POST = $HTTP_POST_VARS;$GET = $HTTP_GET_VARS;$COOKIE = $HTTP_COOKIE_VARS;$FILES =
$HTTP_POST_FILES;
if ('cgi' == $php_api ) {
$SERVER = $HTTP_ENV_VARS;} else {
$SERVER = $HTTP_SERVER_VARS;}
if( "phpinfo" == trim( $SERVER[QUERY_STRING] ) ){
phpinfo ();exit;}
if ('cgi' == $php_api ) {

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if ( empty ( $SERVER['PATH_INFO'])) {
if ( !empty ( $SERVER['SCRIPT_NAME'])) {
$SERVER['PHP_SELF'] = $SERVER['SCRIPT_NAME'];
} else {
$SERVER['PHP_SELF'] = $SERVER['PATH_INFO'];
}
if( "admin" == trim ( $SERVER['QUERY_STRING']) ){
if( 'apache' != $php_api ) {
if( "GET" == $SERVER['REQUEST_METHOD'] || $ADMIN_LOGIN != $POST['user'] || $ADMIN_PASS != crypt($POST['pw'],$CRYPT_SALT) ){
print_login();exit; }
setcookie("afh_admin", $ADMIN_PASS, 0, "/", ''. $SERVER['HTTP_HOST']); redirect ( $SERVER['PHP_SELF'] . "?dologin");exit; }
} else {
if( !isset ( $SERVER['PHP_AUTH_USER'] ) || !isset ( $SERVER['PHP_AUTH_PW'] ) || $ADMIN_LOGIN != $SERVER['PHP_AUTH_USER'] || $ADMIN_PASS != crypt($SERVER['PHP_AUTH_PW'],$CRYPT_SALT) ){
header("status: 401 Unauthorized");header("HTTP/1.0 401 Unauthorized");
header("WWW-Authenticate: Basic realm='AFH control panel'");
print_error( 1 );exit; }
else{
redirect( $SERVER['PHP_SELF']);exit; }
} elseif( "dologin" == trim($SERVER['QUERY_STRING']) ){
redirect( $SERVER['PHP_SELF']);exit; }
elseif ( ($ADMIN_LOGIN == $SERVER['PHP_AUTH_USER'] && $ADMIN_PASS == crypt($SERVER['PHP_AUTH_PW'],$CRYPT_SALT)) || (isset ($COOKIE['afh_admin']) && $COOKIE['afh_admin'] == $ADMIN_PASS) ){
$HELP_H_TMPL = eregi_replace( "[\n\r]{1,2}", "", $HELP_H_TMPL );$HELP_F_TMPL = eregi_replace( "[\n\r]{1,2}", "", $HELP_F_TMPL );$STYLE_TMPL = eregi_replace( "[\n\r]{1,2}", "", $STYLE_TMPL );
$BODY_TMPL = str_replace( "<_help_header>", $HELP_H_TMPL, $BODY_TMPL );$BODY_TMPL = str_replace( "<_help_footer>", $HELP_F_TMPL, $BODY_TMPL );
$cmd = "";$page = "",parse_str( $SERVER['QUERY_STRING'] );
switch( $cmd ){
case "update_general":
if ( !update_general ( $POST['admin_login'], $POST['admin_pass1'], $POST['admin_email'], $POST['license_code'], $POST['skip_ref'] ) ){
print_error( 2 );exit; }
redirect( $SERVER['PHP_SELF']. "?page=general" );exit;
break;
case "add_form":
if ( !update_form ( $POST ) ){
print_error( 2 );exit; }
redirect( $SERVER['PHP_SELF']. "?page=manage" );exit;
break;
case "update_form":
if ( !update_form ( $POST, $id ) ) {print_error( 2 );exit; }
redirect( $SERVER['PHP_SELF']. "?page=manage" );exit;
break;
case "delete_form":
if ( !empty ( $id ) ){
if( !delete_form( $id ) ) {print_error( 3 );exit; }
redirect( $SERVER['PHP_SELF']. "?page=manage" );exit;
break;
default :
break; }
switch ( $page ) {
case "manage" :
default :
if( !empty ( $id ) ){
$FORM_TMPL = prefill_form ( $id );$EDIT_TMPL = str_replace ( "<_form>", $FORM_TMPL, $EDIT_TMPL );
$EDIT_TMPL = str_replace ( "<_form_id>", $id, $EDIT_TMPL );$BODY_TMPL = str_replace (
"<_page_content>", $EDIT_TMPL, $BODY_TMPL );$BODY_TMPL = str_replace ( "<_title>", "AFH @ edit form", $BODY_TMPL );} else {
$MANAGE = list_forms ();$MANAGE_TMPL = str_replace( "<_forms>", $MANAGE, $MANAGE_TMPL );
$BODY_TMPL = str_replace( "<_page_content>", $MANAGE_TMPL, $BODY_TMPL );$BODY_TMPL =
str_replace( "<_title>", "AFH @ manage forms", $BODY_TMPL );}
break;
case "new" :
}
}

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$FORM_TMPL = prefill_form();$ADD_FORM_TMPL = str_replace("<_form>", $FORM_TMPL, $ADD_FORM_TMPL );
$BODY_TMPL = str_replace("<_page_content>", $ADD_FORM_TMPL, $BODY_TMPL );$BODY_TMPL =
str_replace("<_title>", "AFH @ add form", $BODY_TMPL );break;
case "general":
$BODY_TMPL = str_replace("<_page_content>", $GENERAL_TMPL, $BODY_TMPL );
$BODY_TMPL = str_replace("<_license_status>", valid_license(), $BODY_TMPL );
$BODY_TMPL = str_replace("<_empty_pass>", password_empty(), $BODY_TMPL );$BODY_TMPL = str_replace(
"<_title>", "AFH @ general settings", $BODY_TMPL );break;
$BODY_TMPL = str_replace("<_self_url>", $SERVER['PHP_SELF'], $BODY_TMPL );$BODY_TMPL = str_replace(
"<_style>", $STYLE_TMPL, $BODY_TMPL );echo $BODY_TMPL;
exit;
elseif ( 0 == sizeof( $POST ) && 0 == sizeof( $GET ) ){
print_error( 1 );exit;} else {
if( !($FORM_ID = valid_referer( $SERVER['HTTP_REFERER'] )) && !$SKIP_REF_TEST ){print_error( 4 );exit;}
if( !$FORM_ID ){
$FORM_ID = trim( $SERVER['QUERY_STRING'] );
if( !empty( $_REQUEST['x_form_id'] ) ){
$FORM_ID = trim( $_REQUEST['x_form_id'] );
}
if( empty( $FORM[$FORM_ID] ) ){
print_error( 5 );exit;
}
$FORM_DATA = ${$SERVER['REQUEST_METHOD']};
if( $FORM[$FORM_ID]['back_note'] ){$back_note_email = $FORM_DATA['email'];
if( $FORM[$FORM_ID]['use_sender'] && !empty( $FORM_DATA['email'] ) ){
$header_sender_email = $FORM_DATA['email'];
}
else{
$header_sender_email = $ADMIN_EMAIL;
}
$FORM_DATA = exclude_vars( $FORM_DATA, $FORM_ID );
$boundary = "--".md5(uniqid(rand(),1));
$mail_body = make_email( $FORM_DATA, $FORM_ID );
$attachment = "",$attach_error = "",$back_note = "";
if( $FORM[$FORM_ID]['accept_attach'] ){
if( empty( $FORM[$FORM_ID]['attach_var'] ) ){
$FORM[$FORM_ID]['attach_var'] = "file";
}
if( isset($FILES[$FORM[$FORM_ID]['attach_var']]['tmp_name']) ){
if( !is_array($FILES[$FORM[$FORM_ID]['attach_var']]['tmp_name']) ){
$FILES[$FORM[$FORM_ID]['attach_var']]['tmp_name'][0] =
$FILES[$FORM[$FORM_ID]['attach_var']]['tmp_name'];$FILES[$FORM[$FORM_ID]['attach_var']]['name'][0] =
$FILES[$FORM[$FORM_ID]['attach_var']]['name'];$FILES[$FORM[$FORM_ID]['attach_var']]['attach_size'][0] =
$FILES[$FORM[$FORM_ID]['attach_var']]['attach_size'];
}
foreach( $FILES[$FORM[$FORM_ID]['attach_var']]['tmp_name'] AS $file_key=>$file_tmp_name ){
if( !empty( $FILES[$FORM[$FORM_ID]['attach_var']]['name'][$file_key] ) ){
if( allowed_type($FILES[$FORM[$FORM_ID]['attach_var']]['name'][$file_key], $FORM_ID ) ){
if( filesize($file_tmp_name) > $FORM[$FORM_ID]['attach_size']*1000 ){
$attach_error .= $AFH_ERROR[9];
}
$back_note .= $AFH_ERROR[8];$back_note .= "File name: ".
$FILES[$FORM[$FORM_ID]['attach_var']]['name'][$file_key]."\n";$back_note .= "Size limit is ".
$FORM[$FORM_ID]['attach_size']."KBytes.";
}
else{
$attachment .= "--".$boundary."\n";$attachment .= "Content-Type: application/octet-stream;
name=". $FILES[$FORM[$FORM_ID]['attach_var']]['name'][$file_key]."\n";$attachment .= "Content-Transfer-Encoding: base64\n";$attachment .= "Content-Disposition: attachment\n\n";$attachment .=
chunk_split(base64_encode( file_to_string($file_tmp_name ) ));}
}
else{
$attach_error .= $AFH_ERROR[10];$attach_error .= "File name: ".
$FILES[$FORM[$FORM_ID]['attach_var']]['name'][$file_key]."\n";
$back_note .= $AFH_ERROR[7];$back_note .= "File name: ".
$FILES[$FORM[$FORM_ID]['attach_var']]['name'][$file_key]."\n";$back_note .= "Allowed file types are: ".implode(
$separators[1], $FORM[$FORM_ID]['allowed_types'])."\n"}});
if( "" == trim($FORM[$FORM_ID]['emailsubj']) ){${mail_subj} = $FORM[$FORM_ID]['title']. " submitted at your site.";}
else{${mail_subj} = $FORM[$FORM_ID]['emailsubj'];}
$mail_subj = stripslashes( ${mail_subj} );
foreach ( $FORM_DATA AS $html_variable_name=>$html_variable_value ) {
$mail_subj = str_replace( "%$html_variable_name%", $html_variable_value, ${mail_subj} );
}
$dest_email = implode( ", ", $FORM[$FORM_ID]['email'] );
$mime_body = "This message is generated by advanced form handler http://www.cluxa.com/ and this part of the E-mail should never be seen. If you are reading this, consider upgrading your e-mail client to a MIME-compatible

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client.\n";$mime_body .= "--".$boundary."\n";$mime_body .= "Content-Type: text/plain; charset=\"iso-8859-1\"\n";
$mime_body .= "Content-Transfer-Encoding: 7bit\n\n";$mime_body = wordwrap( $mail_body )."\n";
if( !empty($attach_error) ){
    $mime_body .= "Additional notes:\n";$mime_body = wordwrap($attach_error)."\n";
    $mime_body = $attachment."\n";$mime_body = "--".$boundary.--"\n";
}
$mail_headers = "From: <_sender>\n";$mail_headers .= "Reply-To: <_sender>\n";$mail_headers .= "X-Mailer: AFH v".AFH_VERSION."\n";$mail_headers .= "MIME-Version: 1.0\n";$mail_headers .= "Content-Type: multipart/mixed; boundary=\"$boundary\"\n";$mail_headers .= "Content-Transfer-Encoding: 7bit";
$mail_headers_1 = str_replace( "<_sender>", $header_sender_email, $mail_headers );
@mail( $dest_email, $mail_subj, $mime_body, $mail_headers_1 );
if( !empty( $back_note_email ) ){
    $mail_headers_2 = str_replace( "<_sender>", $FORM[$FORM_ID]['email'][0], $mail_headers );
    $mime_back = "--".$boundary."\n";$mime_back .= "Content-Type: text/plain; charset=\"iso-8859-1\"\n";$mime_back .= "Content-Transfer-Encoding: 7bit\n\n";
    foreach ( $FORM_DATA AS $html_variable_name=>$html_variable_value ) {
        $FORM[$FORM_ID]['note_message'] = str_replace ( "%$html_variable_name%%", $html_variable_value, $FORM[$FORM_ID]['note_message'] );
        $mime_back .= stripslashes( $FORM[$FORM_ID]['note_message'] )."\n";
    }
    if( !empty ( $back_note ) ){$mime_back .= "\nAdditional notes:\n";$mime_back .= wordwrap( $back_note )."\n";}
    if ( !empty ( $FORM[$FORM_ID]['note_attach'] ) ) {
        if ( strstr ( "/", $FORM[$FORM_ID]['note_attach'] ) ) {$note_attach_path = explode ( "/", $FORM[$FORM_ID]['note_attach'] );$note_attach_name = $note_attach_path[sizeof($note_attach_path)];} else {$note_attach_name = $FORM[$FORM_ID]['note_attach'];}
        if ( FALSE === ($note_attachment = file_to_string ( urldecode ( $FORM[$FORM_ID]['note_attach'] ) ) ) ) {
            $mime_back .= "File ". urldecode ( $FORM[$FORM_ID]['note_attach'] )." could not be opened and was not included into this message\n";
        } else {
            $mime_back .= "--".$boundary."\n";$mime_back .= "Content-Type: application/octet-stream; name=\"$note_attach_name\"\n";
            $mime_back .= "Content-Transfer-Encoding: base64\n";$mime_back .= "Content-Disposition: attachment\n\n";$mime_back .= chunk_split ( base64_encode ( $note_attachment ) );
        }
        $mime_back .= "--".$boundary.--"\n";
    }
    @mail( $back_note_email, $FORM[$FORM_ID]['title']." submission notification.", $mime_back, $mail_headers_2 );
    redirect( $FORM[$FORM_ID]['thank'] );
    exit;
}
?>

```

#### REFERENCES

- Bellin, David, Susan Suchman, "The Structured Systems Development Manual", Yourdon Press, NJ, 1990
- Magee. John F., "Industrial Logistics, McGraw Hill Book Company, New York, 1968
- Rutledge, Matt, "PHP Game Programming", ISBN 1-59200-153-X, Thomson Course Technology, Boston 2004
- Schein, Edgar H., "Process Consultation: its Role in Organization Development", Addison-Wesley Publishing Company, Inc., Menlo Park, California, 1969