2013

Online examination system

Yuvesh Kumar Singh

ONLINE EXAMINATION SYSTEM

A Project

Presented to the

Faculty of

California State University,

San Bernardino

In Partial Fulfillment

of the Requirements for the Degree

Master of Science

in

Computer Science

---

by

Yuvesh Kumar Singh

March 2013

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Approved by:

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Dr. Ernesto Gomez, Advisor, Computer Science and Engineering

FEB 27, 2013
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Dr. Richard J. Botting

[redacted]

Dr. Yasha Karant

ABSTRACT

An effective solution for mass education evaluation is Online Examination System. This project focuses on how to implement a secure environment for online-examination in academic and business environment without the need of any special network topologies and hardware devices. It will not only reduce the instructor's load, but will also enhance the system flexibility to fit every instructor's needs and from the examinee point of view, they can save their time of travel, energy and money. They can write their exam remotely and can view their results immediately.

This report is to elaborate all those procedures and features which were followed during the development of this system. This document is primarily to mention the project details like, how it got developed, its main requirement, different features, functionalities and the procedures which were followed in achieving all these objectives. It is very important for an Institution to conduct the Examinations and their results and it is important to test their people continuously for their mutual development. This system is helpful for conducting Multiple Choice, Fill in the blanks and Paragraph type questions which can be conducted regularly as well as for

surprise tests. Any Institute can effectively apply the "Online Examination System" for conducting quick exam and producing better results faster.

ACKNOWLEDGMENTS

It was very challenging project for me to work. While working this project I have earned both, practical and theoretical knowledge to a significant level. I am highly thankful to all college faculty members to guide me through this project. I am highly obliged to Dr. E. Gomez, my project advisor, for his suggestions and help. I am thankful to my committee members Dr. R. J. Botting and Dr. Y. Karant for their great support throughout. I would also like to thank to Dr. Mendoza, my graduate advisor.

Last but not the least; I would also like to thank my younger brother Ritesh Kumar Singh for his tremendous help. It would not have been possible without my mother and father, my backbone, their love and support is my source of encouragement.

It was a very knowledge gaining and encouraging experience for me. They all was a great source of my inspiration from start to the end of my project and helped me in my problems all the way.

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CHAPTER ONE

PROBLEM DEFINITION

1.1 Existing System

Most institutions, whether educational or not, need an examination system to rigorously test and evaluate their student's and trainee's outcomes. The existing system at most places is manual but some places have an online system. A manual system includes manual entry of the details of persons for their registration. It is sometime difficult for students to reach the exam center when they live far. A manual system always requires to prepare registration forms, question papers and to print a lot of papers manually [2]. Calculating how many students are registered and verifying details of all these students manually is very difficult. This manual activity takes quite a lot of time and money and it requires manpower as well [2]. Another factor that should be taken into account, is the possibility of error, which needs verification and checking of data. In each examination, we have destroyed many trees. After the examination, instructor reviews results. Without online examination, it would be very difficult to do these tasks [3]. A limitation of manual systems is that they are not all

personalized and cannot be used for quick reference. The places which are using the online system face the problem of handling it. To fulfill the needs of the student and the instructor, there is an administrator required, which is an additional overhead [3].

1.2 Proposed System

The modern computerized system is designed to overcome with the drawbacks of existing system. This new system has got many advantages than the old manual one. People can register and take exams very easily from different places. It is more personalized and developed in a way that all the users can understand all the available options in it without any difficulty. Important matters are not always locked and it is accessible easily at the time of urgency. Standard level of security has been maintained in this system and important data has been kept more secured. It is easy to understand, more user friendly and any quick entries or modification can be done in this system whenever needed. It does not need a dedicated Administrator.

This system is divided into two modules:

1.2.1 Teacher's Module

An instructor has to register first and login to the system. After login, he has full privilege to the system. He is a user who is responsible for preparing the questions and its answers and upload into the database. He can look for the created questions and can select the questions for the tests.

1.2.2 Student's Module

An examinee is a user who has to register first and login to the system to take the exam. After login, he has the option to start the exam, check the result or review it. Every exam will be having a time limit. If an examinee is not able to finish his exam in the time limit, he will be directed to the result page immediately after time out.

In this system answers can be received in the three formats: Multiple-choice, Fill-in-the-blanks and Paragraph. Multiple choice and fill in the blank type answers is checked automatically and produce the results immediately. However, paragraph type answers needs instructor to deal with and to grade it. This type of answers cannot produce results immediately and when they are graded, instructor can upload it on the system and then it is available to the examinee.

CHAPTER TWO

SYSTEM OVERVIEW

2.1 Module Description

The Online examination system consist of two module

1. Teachers Module
2. Students Module

2.1.1 Teacher's Module

The teacher's module has given the following provisions

1. Log-In
2. Adding new chapter
3. Creating Question Bank
4. Look-up Question Bank
5. Generating New Tests
6. Reviewing Student Answer and Upgrading Student Mark
7. Log-Out

This module helps the teacher to conduct the test for which the teacher needs to log in using the User-ID and password which is created by the System Administrator. After Logging In the teacher can add new chapter to his subject. The next important activity of the teacher is to create question bank for which the teacher has to provide

information such as Subject Name, Chapter, and choose Fill-ups, Objective, or Paragraph. If necessary details are provided then the question bank for fill-ups, Objectives, and paragraph will be created respectively. Once the questions are added to the question bank the teacher can generate the question paper by giving details such as Name of the Test, Subject Name, Chapter, number of Fill-ups, number of Objective and number of Paragraph questions. The other activity of the teacher is to review the paragraph question answered by the student and to grade those answers. During this time whenever teacher wants can log-out and exit.

2.1.2 Student's Module

The student's module has given the below mentioned provisions

1. Log-In
2. New Registration
3. Taking up the Test
4. Check-Out the Marks
5. Overall Test Review
6. Log-Out

This module helps the student to take up a test in a particular subject for which the student need to register first and using the User-ID and password the student can

Log-In. After Logging In the student can choose the test that is available for a particular subject. The next important activity of the student is to take up the test that he has chosen. The result for fill-ups and objectives will be given at the end of the test and answer for paragraph will be posted to teacher for review and it is available once it is graded. The other activity of the student is that he can view the marks obtained in a particular test and he can also review his overall test so that the student could get to know the correct answer for all the question along with the answer the student has given. At the end the student can log-out and exit.

CHAPTER THREE

HARDWARE REQUIREMENTS SPECIFICATION

3.1 Client Side

- Browser: Internet Explorer 6.0 & above, Google Chrome, Firefox
- Processor: Pentium IV 2.0 and above.
- RAM: 256 MB

3.2 Server Side

- Browser: Internet Explorer 6.0 & above, Google Chrome, Firefox
- Processor: Pentium IV 2.0 and above.
- RAM: 1 GB
- Disk space: 4GB

CHAPTER FOUR

SOFTWARE REQUIREMENTS SPECIFICATIONS

4.1 Client Side

- Web Browser, Windows 9X/NT/2000 with latest Service Pack

4.2 Web Server

- Apache Web Server, Windows NT/2000/XP
- Data Base Server: MySQL

CHAPTER FIVE

TECHNOLOGIES USED

This project is a web-based application which is developed in PHP integrated with HTML for front end and MySQL for database as back end.

i. Database: MySQL

ii. Input: PHP

iii. Output: HTML

CHAPTER SIX

SYSTEM DESIGN

6.1 Use Case Diagram - Teacher's Module

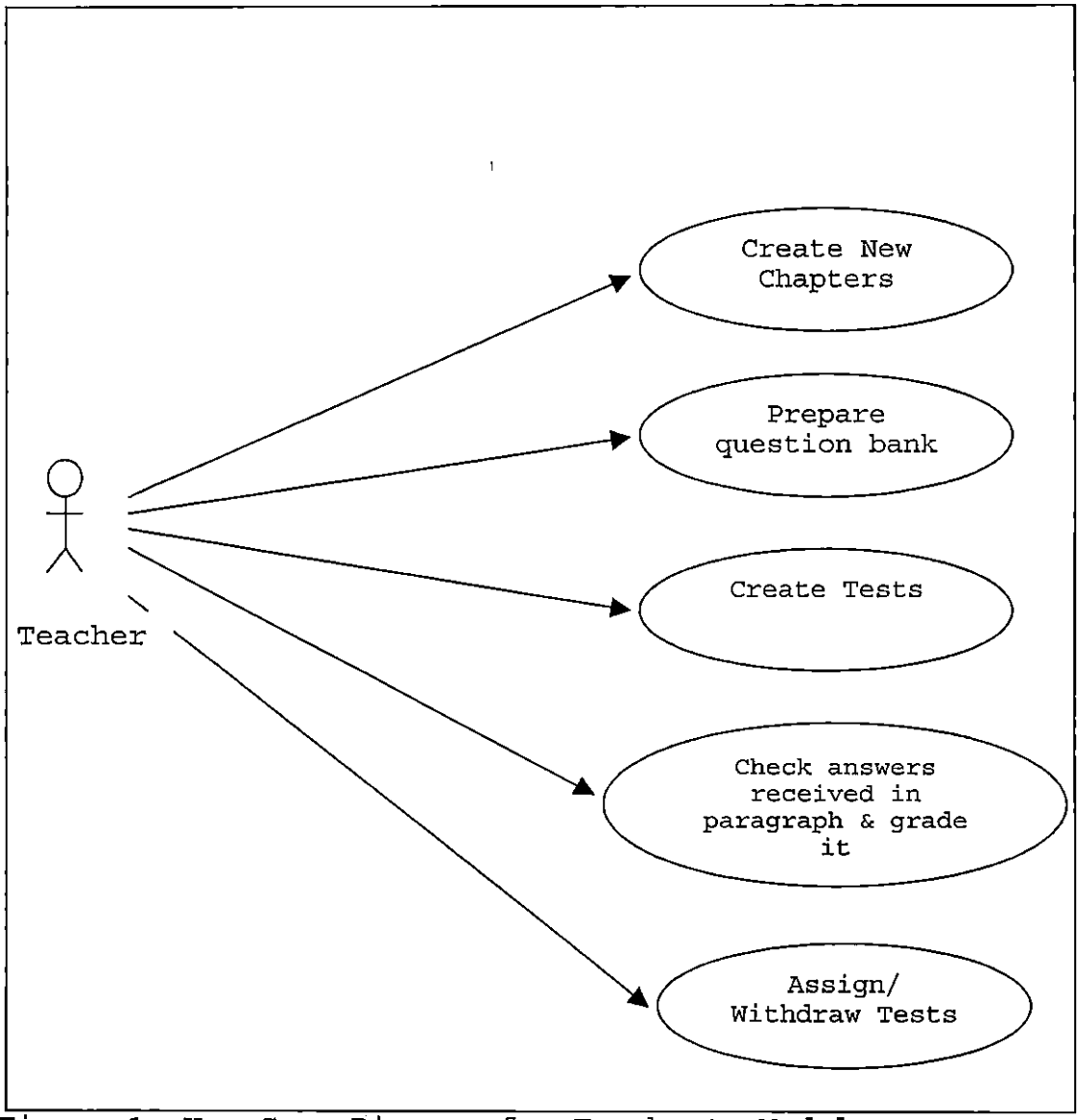


Figure 1. Use Case Diagram for Teacher's Module

6.2 Use Case Diagram - Student Module

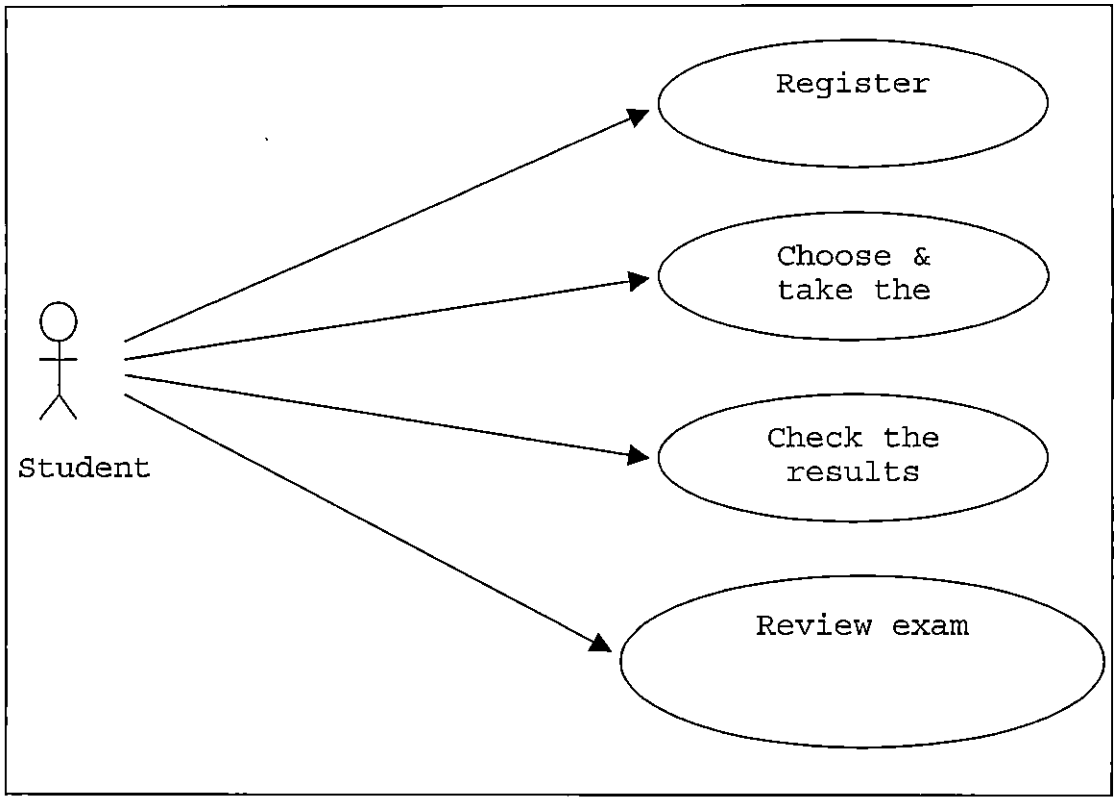


Figure 2. Use Case Diagram for Student Module

CHAPTER SEVEN

SYSTEM STUDY

7.1 Feasibility Study

7.1.1 Needs of User's Demonstration

A web-based application system removes most of the problems listed above that, a user can face. Any user basically wants to use a system which is web-based, which can reduce loads of paperwork and can provide fast record finding, flexibility, adding, modifying, removing, ease of work, easily generating the reports and reducing the dependency on Administrator.

7.1.2 Redefined the Problem

To propose the new system, I made a complete layout of the whole system on the paper, with the problems of all existing manual systems. By these existing manual systems and its requirements, I was able to point out the problems and needs. I further layout it in the basis of redefining the problem specifications. In the initial phase of study, I went through many steps, which I describe as: The proposed system is going to be how much feasible? I analyzed it when I compared all the points of both, one the existing manual system and another proposed this web-based system, which is as follows:

7.1.2.1 Cost. This proposed system's cost is lesser than the existing manual system.

7.1.2.2 Effort. This new proposed system will be providing a better working experience than the existing system. The effort required will be comparatively less and it will be easy to use.

7.1.2.3 Time. Time is one of the big factors as generating any report or finishing any other work will take lesser time than the manual system. Finding record, updating and modifying data will take lesser time than the manual system.

7.1.2.4 Labor. The number of staff needed for finishing any work in the existing system is higher than the proposed system, as it needs less people working on it.

7.1.2.5 Bottlenecks. The very first problem I saw was that there were lots of prints on papers are being taken. This is like the old-age way of storing the data on the papers versus saving it into computer database. Saving the data in the form of sheets of paper documents can create the following problems:

i. Filing - Filing all the documents in its category is tedious and a time taking job.

ii. Less space - It is a big problem to find a place to store the sheets of papers. These documents are generally very important to be mistreated.

iii. Reviewing - All the intuitions that uses the manual system, maintain their records manually on paper. Maintaining this record is not easy in the different places and it's a difficult job for people to find out the record when needed as well. This manual system is complete paper based and time taking. It's tedious and flexible is less, which causes a hectic work environment. Chances of losing the records are high and difficult to search. Maintaining of this complete system is difficult and time taking.

iv. Filtering - It is difficult filtering and finding out the needed documents from all the irrelevant ones when the count is higher than a certain manageable number.

v. Final Result - The whole processing is slow because of manual work, its maintenance and its requirement of manual job.

7.2 Requirement for the Proposed System

To remove the above mentioned problems, it needed a computer based application to take care of all of this work. It needed a web-based application, which should provide an environment to work that should be quick, flexible and easy to use. Additionally, it should cut down the report generation time and other manual and paper work.

7.3 Aims and Objectives

The primary goal of this proposed new system is to give a web-based comprehensive computer based application to user, which can capture, collate and analyze all the users information, cut down the time and the stuff and evaluate the impact of the program.

CHAPTER EIGHT

SPECIFICATION REPORT

8.1 System Interface

This application is a self-contained system. There is no data access of any outside application or none of the other applications can have access to its data.

8.2 User Interface

Through any Browser Interface a user can access this application. This interface could be viewed at its best by selecting 1024 x 768 and/ or 800 x 600 pixels resolution in computer display. MS Internet Explorer version 6 and above will be fully compatible with this application. Without logging on to the system, none of the user can access this application.

8.3 Hardware Interface

8.3.1 For Server

- Intel P-III or above
- 512 MB RAM Memory
- 4 GB hard disk space
- Network Interface

8.3.2 For Client

- PC
- 256 MB RAM Memory
- Network Interface

8.4 Software Interface

8.4.1 For Server

- Windows NT/ 2000/ XP
- Apache Server
- MySQL Server

8.4.2 For Client

- Windows 9X/ NT/ WorkStation/ 2000 with latest Service Pack
- Microsoft Internet Explorer 6 & above

8.5 Communication Interface

The proposed system should be accessible over the Local Area Network (LAN) or Wide Area Network (WAN) by using the TCP/IP protocol.

CHAPTER NINE

OPERATIONS

9.1 Client Side

Operations are interactive by using options available in the application, for example viewing of reports and Data Entry generation.

9.2 Server Side

Database should be backed up every day internally and at any external place as well by the administrator. So that in case of any hard-disk crash, last backup should be restored from internal backup or external.

CHAPTER TEN

USER CHARACTERISTICS

There are two categories of users:

Administrator: Who accesses to all the master data for any need of data manipulation and generate all the required reports.

Operator: Who accesses to his corresponding data, taking examination and viewing the results.

CHAPTER ELEVEN

CONSTRAINTS, ASSUMPTIONS, DEPENDENCIES

11.1 Constraints

At least 64 MB RAM memory will be needed for all the clients for any normal operation as this proposed system works on client server technology module.

11.2 Assumptions

It is presumed that all the users have the basic general knowledge of using the system. Any data punched in by user will be valid and final. This application is built more users friendly, keeping in minds their requirements at the same time.

- Server Operating System should be MS Windows NT/2000/XP.
- Client computer should be at least MS Windows 9X/NT/2000, latest service pack is preferable.

11.3 Dependencies

It is depending on the users to use the international standards for creating their User ID and to fill out all the required information by following the right standards.

CHAPTER TWELVE

SOFTWARE SYSTEM ATTRIBUTES

12.1 Usability

Each form has all the provided links. The user has ability to view and punch in the information in the system. There are validations in each data field to catch any invalid entries in the system. Some of the data-forms have Hyper Links to provide more detailed information about it. To produce the report, all the screens contain drop down lists and text boxes.

12.2 Security

Application validates the users before allow to access the system. User's designation decides its access to any application resource. Basic security depends on the every user's personal user ID and their Password.

12.3 Maintainability

A manual to operate online exam management application will be available for all the users.

12.4 Availability

This application could be available as per the requirement or around the clock if there is time needed for the maintenance, back-up or restoration.

12.5 Portability

PHP has been used to develop this application. It is portable to other operating system.

Porting one database server to another one would require some development efforts as it is made in DB2.

12.6 Acceptance Criteria

To perform the functionality efficiently the application should meet the basic functional requirements.

- User friendly interfaces which contains proper menus options.
- Accurate data transfer within acceptable amount of time, depending upon the network speed and online traffic.
- Should not accept any entry of any duplicate key values.
- It should generate at least transactional Logs to keep safe from any accidental loss of data.

CHAPTER THIRTEEN

CONCLUSION AND FUTURE ENHANCEMENT

13.1 Conclusion

This Web-based Application makes it possible to offer online examination worldwide. It saves lots of time and man power by allowing multiple student users to take the examination simultaneously and shows the results right way when the exam finishes, so it's not needed to wait for the results. This result is an auto calculated and auto generated result by the server. Teacher users have a privileged right to generate new question paper, edit the existing ones and its answers. Student users could register themselves in the system, and then they can log in and take the test by using their user id, and can view the results right away after finishing the exam. Administrator's work has been significantly reduced by distributing few privileges to teachers and students.

13.2 Future Enhancements

This project can be extended using higher level of security. The system can be enhanced and improved by deploying it to the World Wide Web (www), so that users can use system at any place. Storing questions in

encrypted form using RSA. Hierarchy of subjects and topics can be extended to the books, section and to its description to keep it more organized.

APPENDIX A

TABLE DESCRIPTION

Teacher:

Name	Data Type	Description
TeacherID (PK)	Int(5)	Unique Teacher ID
TeacherName	Varchar(20)	Name of the Teacher
Password	Varchar(6)	Password (Encrypted)
CourseName	Varchar(20)	Name of the course

Subject:

Name	Data Type	Description
CourseName (PK)	Varchar(60)	Name of the course
SubjectName	Varchar(60)	Subject to be Added

Question Type - 1:

Name	Data Type	Description
Question_ID (PK)	Int(11)	Unique Question ID
CourseName (FK)	Varchar(60)	Name of the Course
SubjectName (FK)	Varchar(60)	Name of the Subject
Question	Varchar(200)	Question
Answer	Varchar(10)	Answer
Explanation	Varchar(300)	Explanation to the Answer
Flag	Varchar(5)	Flag

Question Type - 2:

Name	Data Type	Description
Question_ID (PK)	Int(11)	Unique Question ID
CourseName (FK)	Varchar(60)	Name of the Course
SubjectName (FK)	Varchar(60)	Name of the Subject
Question	Varchar(200)	Question
Choice 1	Varchar(60)	First choice
Choice 2	Varchar(60)	Second Choice
Choice 3	Varchar(60)	Third Choice
Choice 4	Varchar(60)	Fourth Choice
Choice 5	Varchar(60)	Fifth Choice
Answer	Varchar(30)	Correct Answer Choice
Explanation	Varchar(300)	Explanation
Flag	Int(10)	Flag

Question Type – 3:

Name	Data Type	Description
Question_ID (PK)	Int(11)	Unique Question ID
CourseName (FK)	Varchar(60)	Name of the Course
SubjectName (FK)	Varchar(60)	Name of the Subject
Question	Varchar(200)	Question
Explanation	Varchar(300)	Explanation
Flag	varchar(5)	Flag

Question Paper:

Name	Data Type	Description
Test_name (PK)	Varchar(20)	QuestionPaper Name
Test_dbname	Varchar(60)	Database Name
Course_name	Varchar(110)	Course Name
Fillup	Int(20)	No.of Fillup
Objective	Int(20)	No.of Objective
Paragraph	Int(20)	No.of Paragraph
Test_duration	Int(11)	Test Timing

Student:

Name	Data Type	Description
StudentID (PK)	Int(5)	Unique Student ID
StudentName	Varchar(20)	Name of the Student
Password	Varchar(6)	Password (Encrypted)
CourseName	Varchar(20)	Name of the course

Test:

Name	Data Type	Description
Tbl_name (PK)	Varchar(60)	Name of the table
QuestNo	Int(11)	Question Number

Result:

Name	Data Type	Description
StudID (PK)(FK)	Int(20)	Unique Student ID
Test_name (FK)	Varchar(60)	Name of the test
Fillup	Int(20)	Marks obtained in fillup
Objective	Int(20)	Marks obtaines in objective
Paragraph	Int(20)	Marks obtained in paragraph

Review Result:

Name	Data Type	Description
UserAnswer (PK)	Varchar(60)	User Answer
Result	Varchar(100)	Correct Answer
Test_name (FK)	Varchar(20)	Name of the Test
StudID (FK)	Int(10)	UniqueStudent ID
QType	Verchar(20)	Question Type

APPENDIX B

SAMPLE CODE

Teacher Login:

```
<?php include("validateform.inc"); ?>
<blockquote>
 <blockquote>
<?php include("index.html");?>
 </blockquote>
</blockquote>
<head>
<link href="default.css" rel="stylesheet" type="text/css" />
</head>
<form ACTION="login.php" name="saveform" METHOD="POST" align="center">
<center><h3>Teachers Login</h3></center>
 <div align="center"><center><table border="0" width="704" cellspacing="0" cellpadding="0">
  <tr>
   <td width="385" align="right"><table align="left"  border="0" height="6" width="300"
   bgcolor="#FFFFFF" cellspacing="1" cellpadding="0">
    <tr>
     <td width="154" height="19" bgcolor="#000080" align="center"><p><font
color="#FFFFFF"><small>UserID:</small></font></td>
     <td width="133" height="19" bgcolor="#000080" align="center"><p><input
NAME="username"
     VALUE SIZE="8" MAXLENGTH="16" tabindex="1"></td>
     <td width="64" height="19" bgcolor="#C0C0C0" align="center"><div
align="center"><center><p><a  href="javascript:alert('The username must be between 4 and 16
characters long.')"><small><small>Help</small></small></a></td>
    </tr>
    <tr align="center">
     <td width="154" height="17" bgcolor="#000080" align="center"><p><font
color="#FFFFFF"><small>Password:</small></font></td>
     <td height="17" width="133" bgcolor="#000080" align="center"><p><input type="password"
     name="password" size="8" tabindex="2" maxlength="8"></td>
     <td height="17" bgcolor="#C0C0C0" align="center"><a
     href="javascript:alert('The password must be between 4 and 8 characters
long.')"><small><small>Help</small></small></a></td>
    </tr>
    <tr align="center">

     <td width="133" height="1" bgcolor="#000080" align="center" colspan="3"><p><input
TYPE="button"
     NAME="FormsButton2" VALUE="Sign-In" ONCLICK="validateForm()" tabindex="3"
     style="font-family: Verdana; font-size: 8pt"></td>
    </tr>
   </table>
        <?php include("getresult.inc"); ?>
  </div>
 <tr>
 <td align="center" width="319"><small><strong><a href="reg.php">New Registration
   </a></strong></small></td>
  </tr>
 </table>
```

```
 </center></div>
</form>

<p align="center"> </p>

<?php include("footer.html");?>
<?php
if (isset($_POST['password'])) // if the password is set then the  form has been submitted on login.php
page
{
 include("config.php");
 $username =  mysql_real_escape_string($_POST['username']);
 $password =  mysql_real_escape_string(encrypt_text($_POST['password']));
 $qstr = "SELECT * from teacher where Teacherid =$username and Password ='$password'";

 $result = mysql_query($qstr);
 if (mysql_num_rows($result))
header("Location: loginfst.php");

 else echo "<font color=#ff0000><Center><b>**Failed Login**</b></Center></font>";
 mysql_close();
}
?>
```

Teacher login registration:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
<link href="default.css" rel="stylesheet" type="text/css" />
<title>Online Examination System</title>
</head>
<?php include("index.html");?>

<!--<link href="open.css" rel="stylesheet" type="text/css" /> -->
<?php
$link = mysql_connect("localhost", "root")
or die("Could not connect: " . mysql_error());
mysql_select_db("onlineexam",$link) or die ("Can\'t use foo: ". mysql_error());
if(isset($_POST['reg']))
{

$regid=filter_var($_POST['rid'],filter_sanitize_rid);
$name= filter_var($_POST['tname'] ,filter_sanitize_tname);
$eid= filter_var($_POST['emailid'],filter_sanitize_emailid);
$usr= filter_var($_POST['usrname'],filter_sanitize_username);
$pwd = filter_var($_POST['pass'],filter_sanitize_pass);
$cname = filter_var($_POST['crsname'] ,filter_sanitize_crsname);
$sname = filter_var($_POST['subname'] ,filter_sanitize_subname);
$query="insert into teacher values($regid,'$name','$eid','$usr','$pwd','$cname','$sname')";
```

```
//print "running query: <br />\n $query <br />\n";
mysql_query( $query, $link ) or die ( "INSERT error: ".mysql_error());
print "Registered Successfully";
}

?>
</head>
<body>
<center>
<form  method="post" name="f1">
<table width="50%" cellspacing="20"  align="right">
<tr><th colspan="2"><font color="#FF9900">Teachers New Registration</font></th></tr>
<tr><td>RegID</td><td> <input  type="text" name="rid" id="rid" size="25" /></td></tr>
<tr><td>Name</td><td> <input  type="text" name="tname" id="tname" size="25" /></td></tr>
<tr><td>Email ID</td><td><input  type="text" name="emailid"  size="25" /></td></tr>
<tr><td>UserName</td><td><input type="text" name="usrname" size="25" /></td></tr>
<tr><td>Password</td><td> <input  type="password" name="pass"  size="25"/> </td></tr>
<tr><td>CourseName</td><td> <input  type="text" name="crsname" size="25" /></td></tr>
<tr><td>SubjectName</td><td> <input type="text" name="subname" size="25"/></td></tr>

<tr><td><input name="reg" type="submit" value="Submit" /></td><td><input type="button"
value="reset" name="hu" id="ygy" /></td></tr>
</table>
<table align="left">
<tr><td><img src="online.jpg" width="300" height="300"/></td></tr>
<tr><td><a href="login.php"><--Previous--Login Page</a></td></tr>
</table>
</center>
</form>
</body>
<?php include("footer.html");?>
</html>
Question Bank generation
Fillup;
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
<title>Online Examination System</title>
<link href="default.css" rel="stylesheet" type="text/css" />
<?php include("index2.html");?>
<?php
$link = mysql_connect("localhost", "root")
or die("Could not connect: " . mysql_error());
mysql_select_db("onlineexam",$link) or die ("Can\'t use foo: ". mysql_error());
session_start();
$cur=$_SESSION['subject'];
$subject=$_SESSION['chapter'];
$qwr="select count(questionid) from  ccip";
$rs=mysql_query( $qwr, $link ) or die ( "SELECT error: ".mysql_error());
while( $row = mysql_fetch_array( $rs ) )
```

```
{
if($row!=null)
        {
        $id=$row[0];
        }
}
 $id++;
if(isset($_POST['reg']))
{
$qid=filter_var($_POST['qidt'] ,filter_sanitize_qidt);
$qutn = filter_var($_POST['qst'] ,filter_sanitize_qst);
$answ1 = filter_var($_POST['ans1'] ,filter_sanitize_ans1);
$Expla = filter_var($_POST['Expl'] ,filter_sanitize_Exp1);
$query="insert into ccip values($qid,'$cur','$subject','$qutn','$answ1','$Expla',0)";
mysql_query( $query, $link ) or die ( "INSERT error: ".mysql_error());
print "Successfully Added to question Bank";
}
?>
</head>
<body>
<center>
<form  method="post" name="f1">
<table width="50%" cellspacing="20"  align="right">
<tr><th colspan="2"><font color="#FF9900">Fillups Questions Bank Generation</font></th></tr>
<tr><td>Question number</td><td> <input  type="text" name="qidt" id="qidt " readonly="true"
value='<?php echo $id; ?>' size="20" /></td></tr>
<tr><td>Question</td><td> <Textarea  type="text" name="qst" id="qst" cols="50" rows="5">
</Textarea></td></td></tr>
<tr><td>Answer A</td><td> <input  type="text" name="ans1" id="ans1" size="10" /></td></tr>
<tr><td>Explanation</td><td> <textarea  type="text" name="Expl" id="Expl" rows="8" cols="50"
></textarea></td></tr>
<tr><td><input name="reg" type="submit" value="Submit" /></td><td><input type="button"
value="reset" name="hu" id="ygy" /></td></tr>
</table>
<table align="left">
<tr><td><img src="online.jpg" width="300" height="300"/></td></tr>
<tr><td><a href="subject.php"><--Previous--choose the subject</a></td></tr>
<tr><td><a href="create.php">--Next-->Create the question paper</a></td></tr>
</table>
</center>
</form>
<?php include("footer.html");?>
</body>
</html>
```

Objective creation:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
<title>Online Examination System</title>
<link href="default.css" rel="stylesheet" type="text/css" />
<?php include("index2.html");?>
<?php
$link = mysql_connect("localhost", "root")
or die("Could not connect: " . mysql_error());
mysql_select_db("onlineexam",$link) or die ("Can\'t use foo: ". mysql_error());
session_start();
$cur=$_SESSION['subject'];
$subject=$_SESSION['chapter'];
$qwr="select count(questionid) from  ccip";
$rs=mysql_query( $qwr, $link ) or die ( "SELECT error: ".mysql_error());
while( $row = mysql_fetch_array( $rs ) )
 {
 if($row!=null)
          {
          $id=$row[0];
          }
}
 $id++;
if(isset($_POST['reg']))
{
$qid= filter_var($_POST['qidt'] ,filter_sanitize_qidt);
$qutn = filter_var($_POST['qst'] ,filter_sanitize_qst);
$answ1 = filter_var($_POST['ans1'] ,filter_sanitize_ans1);
$Expla = filter_var($_POST['Expl'] ,filter_sanitize_Exp1);
$query="insert into ccip values($qid,'$cur','$subject','$qutn','$answ1','$Expla',0)";
//print "running query: <br />\n $query <br />\n";
mysql_query( $query, $link ) or die ( "INSERT error: ".mysql_error());
print "Successfully Added to question Bank";
}
?>
</head>
<body>
<center>
<form  method="post" name="f1">
<table width="50%" cellspacing="20"  align="right">
<tr><th colspan="2"><font color="#FF9900">Fillups Questions Bank Generation</font></th></tr>
<tr><td>Question number</td><td> <input  type="text" name="qidt" id="qidt " readonly="true"
value='<?php echo $id; ?>' size="20" /></td></tr>
<tr><td>Question</td><td> <Textarea  type="text" name="qst" id="qst" cols="50" rows="5">
</Textarea></td></td></tr>
<tr><td>Answer A</td><td> <input  type="text" name="ans1" id="ans1" size="10" /></td></tr>
<tr><td>Explanation</td><td> <textarea  type="text" name="Expl" id="Expl" rows="8" cols="50"
></textarea></td></tr>
<tr><td><input name="reg" type="submit" value="Submit" /></td><td><input type="button"
value="reset" name="hu" id="ygy" /></td></tr>
</table>
<table align="left">
```

```
<tr><td><img src="online.jpg" width="300" height="300"/></td></tr>
<tr><td><a href="subject.php"><--Previous--choose the subject</a></td></tr>
<tr><td><a href="create.php">--Next-->Create the question paper</a></td></tr>
</table>
</center>
</form>
<?php include("footer.html");?>
</body>
</html>
```

Paragraph :

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
<link href="default.css" rel="stylesheet" type="text/css" />
<title>Online Examination System</title>
<?php include("index2.html");?>
<?php
$link = mysql_connect("localhost", "root")
or die("Could not connect: " . mysql_error());
mysql_select_db("onlineexam",$link) or die ("Can\'t use foo: ". mysql_error());

session_start();
$cur=$_SESSION['subject'];
$subject=$_SESSION['chapter'];

$qwr="select count(questionid) from  hardware";
$rs=mysql_query( $qwr, $link ) or die ( "SELECT error: ".mysql_error());
while( $row = mysql_fetch_array( $rs ) )
 {
 if($row!=null)
        {
        $id=$row[0];
        }
 }

 $id++;
if(isset($_POST['reg']))
{
$qid= filter_var($_POST['qidt'] ,filter_sanitize_qidt);
$qutn = filter_var($_POST['qst'] ,filter_sanitize_qst);
$Expla = filter_var($_POST['Expl'] ,filter_sanitize_Expl);
$query="insert into hardware values($qid,'$cur','$subject','$qutn','$Expla',0)";
//print "running query: <br />\n $query <br />\n";
```

```
mysql_query( $query, $link ) or die ( "INSERT error: ".mysql_error());
print "Successfully Added to question Bank";
}

?>
</head>
<body>
<center>
<form  method="post" name="f1">
<table width="50%" cellspacing="20"  align="right">
<tr><th colspan="2"><font color="#FF9900">Paragraph Questions Bank Generation</font></th></tr>
<tr><td>Question number</td><td> <input  type="text" name="qidt" id="qidt" readonly="true"
value='<?php echo $id; ?>' size="20" /></td></tr>
<tr><td>Question</td><td><input type="text" name="qst" id="qst" size="70" /></td></tr>
<tr><td>Explanation</td><td> <textarea  type="text" name="Expl" id="Expl" rows="8" cols="50"
></textarea></td></tr>
<tr><td><input name="reg" type="submit" value="Submit" /></td><td><input type="button"
value="reset" name="hu" id="ygy" /></td></tr>
</table>
<table align="left">
<tr><td><img src="online.jpg" width="300" height="300"/></td></tr>
<tr><td><a href="subject.php"><--Previous--choose the subject</a></td></tr>
<tr><td><a href="create.php">--Next-->Creat the question paper</a></td></tr>
</table>
</center>
</form>
<?php include("footer.html");?>
</body>
</html>
```

Question paper generation:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
<title>Online Examination System</title>
<link href="default.css" rel="stylesheet" type="text/css" />
</head>
<?php include("index2.html");?>
<?php
$link = mysql_connect("localhost", "root")
or die("Could not connect: " . mysql_error());
mysql_select_db("onlineexam",$link) or die ("Can't use foo: ". mysql_error());

?>
</head>
```

```
<body>
<center>
<form  method="post" name="f2" action="questionpaper.php">
<table width="50%" cellspacing="20"  align="right">
<tr><th colspan="2"><font color="#FF9900">Question Paper Generation</font></th></tr>
<tr><td>Question Paper Name</td><td> <input  type="text" name="qustid"  size="10" /></td></tr>
<tr><td>Enter the Course Name</td><td><select name="sub" onchange="funsel()">
<option value="course name">select the course name</option>
<option value="MATHS" name="MATHS">MATHS</option>
<option value="PHYSICS" name="PHYSICS">PHYSICS</option>
<option value="CHEMISTRY" name="CHEMISTRY">CHEMISTRY</option>
</select>
</td>
</tr>
<tr><td>Select the Subject</font> </td><td><select name="ttname" style="width:150px">
<option value="Choose the subject">Choose the subject</option>
<?php
$tres=mysql_query("Select distinct(subject) from createsub " ) or die(mysql_error());
        while ($trs=mysql_fetch_assoc($tres))
        {

                echo "<option value='$trs[subject]' >" . $trs['subject'] . '</option>';

        }
?>
</select>
</td>
</tr>
<tr><td>No_of Fill ups</td><td> <input  type="text" name="fillno"  size="10"/> </td></td></tr>
<tr><td>No of choose</td><td> <input  type="text" name="chono"  size="10" /></td></tr>
<tr><td>No of paragraph</td><td> <input  type="text" name="parano"  size="10" /></td></tr>
<tr><td>Duration in mins</td><td> <input  type="text" name="dur"  size="10" /></td></tr>
<tr><td><input name="reg" type="submit" value="Submit" /></td><td><input type="button"
value="reset" name="hu" id="ygy" /></td></tr>
<tr><td>
</table>
<table align="left">
<tr><td><img src="online.jpg" width="300" height="300"/></td></tr>
<tr><td><a href="subject.php"><--Previous--choose the subject</a></td></tr>
<tr><td><a href="create.php">--Next-->Creat the question paper</a></td></tr>
</table>
</center>
</form>
<?php include("footer.html");?>
</body>
</html>
```

Question paper:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
<link href="default.css" rel="stylesheet" type="text/css" />
<title>Online Examination System</title>

</head>
<?php include("index.html");?>
<h1 align="center"> QUESTION PAPER</h1>
<h1 align="right"><a href="login.php">LOGOUT</a></h1>
<?php
$link = mysql_connect("localhost", "root")
or die("Could not connect: " . mysql_error());
mysql_select_db("onlineexam",$link) or die ("Can't use foo: ". mysql_error());
if(isset($_POST['reg']))
{
$qstid = filter_var($_POST['qustid'] ,filter_sanitize_qustid);
$subj = filter_var($_POST['sub'] ,filter_sanitize_sub);
$subf = filter_var($_POST['ttname'] ,filter_sanitize_ttname);
$fill = filter_var($_POST['fillno'] ,filter_sanitize_fillno);
$cho = filter_var($_POST['chono'] ,filter_sanitize_chono);
$para = filter_var($_POST['parano'] ,filter_sanitize_parano);
$dur = filter_var($_POST['dur'] ,filter_sanitize_dur);
$query="insert into questionpaper values('$subf','$qstid',$dur,30,'$subj',$fill,$cho,$para)";
mysql_query( $query, $link ) or die ( "INSERT error: ".mysql_error());
$cre="create table $qstid(tblname varchar(20),qustno int)";
$rs=mysql_query($cre,$link) or die ("CREATE error: ".mysql_error());
$query1="select question,choice1,choice2,choice3,choice4,choice5,questionid from tutorquestionbank
where flag=0 and  CourseName='$subj' and SubjectName='$subf' limit $fill" ;
$rs=mysql_query($query1,$link) or die ("SELECT error: ".mysql_error());
echo("<table>");
echo("<h2>Choose The Best Answer:</h2>");
  $temp=array();
   $i=0;
while( $row = mysql_fetch_array( $rs ) )
 {
   if($row!=null)
          {
           echo("<tr><td><h3>".$row['question']."</h3></td></tr>" );
            echo("<tr><td>".$row['choice1'] . "</td></tr>" );
            echo("<tr><td>".$row['choice2']. "</td></tr>");
            echo("<tr><td>".$row['choice3']. "</td></tr>");
            echo("<tr><td>".$row['choice4']. "</td></tr>");
            echo("<tr><td>".$row['choice5']. "</td></tr>");

            $temp[$i]=$row['questionid'];
                        $i++;
}
}
foreach($temp as $tmp)
{
$up1="update tutorquestionbank set flag=1 where flag=0 and  CourseName='$subj' and
SubjectName='$subf' and questionid=$tmp";
```

```
$rs=mysql_query($up1,$link) or die ("SELECT error: ".mysql_error());
$qstinst1="insert into $qstid values('tutorquestionbank',$tmp)";
mysql_query( $qstinst1, $link ) or die ( "INSERT error: ".mysql_error());
}
echo("</table>");
$query2="select question,questionid from ccip where flag=0 and  CourseName='$subj' and
SubjectName='$subf' limit $cho";
$rs=mysql_query($query2,$link) or die ("SELECT error: ".mysql_error());
echo("<table>");
echo("<h2>Fill In The Blanks:</h2>");
 $temp=array();
   $i=0;
          while( $row = mysql_fetch_array( $rs ) )
 {
   if($row!=null)
          {
            echo("<tr><td>".$row[0]. "</td></tr>");
            $temp[$i]=$row['questionid'];
                        $i++;
          }
}
foreach($temp as $tmp)
{
$up2="update ccip set flag=1 where flag=0 and  CourseName='$subj' and SubjectName='$subf' and
questionid=$tmp";
$rs=mysql_query($up2,$link) or die ("SELECT error: ".mysql_error());
$qstinst2="insert into $qstid values('ccip',$tmp)";
mysql_query( $qstinst2, $link ) or die ( "INSERT error: ".mysql_error());
}
echo("</table>");
$query3="select question,questionid from hardware where flag=0 and  CourseName='$subj' and
SubjectName='$subf' limit $para";
$rs=mysql_query($query3,$link) or die ("SELECT error: ".mysql_error());
 echo("<table>");
 echo("<h2>Answer the Following Questions:</h2>");
 $temp=array();
   $i=0;
          while( $row = mysql_fetch_array( $rs ) )
          {
   if($row!=null)
          {
          echo("<tr><td>".$row[0]. "</td></tr>");
                    $temp[$i]=$row['questionid'];
                          $i++;
          }
          }
foreach($temp as $tmp)
{
$up3="update hardware set flag=1 where flag=0 and  CourseName='$subj' and SubjectName='$subf'
and questionid=$tmp";
$rs=mysql_query($up3,$link) or die ("SELECT error: ".mysql_error());
$qstinst3="insert into $qstid values('hardware',$tmp)";
```

```
mysql_query( $qstinst3, $link ) or die ( "INSERT error: ".mysql_error());
}
echo("</table>");
}
?>
<body>
<?php include("footer.html");?>
</body>
</html>
```

Student takeup test

Objective test :

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
<title>Online Examination System</title>
<?php include("index1.html");
session_start();
$link = mysql_connect("localhost", "root")
or die("Could not connect: " . mysql_error());
mysql_select_db("onlineexam",$link) or die ("Can\'t use foo: ". mysql_error());
?>
<script type="text/javascript">
<?php $c=0; ?>
function getPoBox(f, n,ad,tt){
 f = f.form.elements;
 for (var i = f.length - 1; i > -1; --i)
  if(f[i].name == n && f[i].checked)
 a=f[i].value;
location.href="myPage.php?a="+a+"&b="+ad+"&ta="+tt;
  }
</script>
</head>
<body>
<form method="post" name="fq" >
<?php

$subjt=$_SESSION['course'];
$chatr=$_SESSION['chapter'];
echo("<center><h3>".$subjt." Question Paper</h3></center>");
echo("<h5>OBJECTIVES</h5>");
$query1="select test_dbname,fill from questionpaper where test_name='$chatr' and
course_id='$subjt'" ;
$rs=mysql_query($query1,$link) or die ("SELECT error: ".mysql_error());
while($row = mysql_fetch_array( $rs))
 {
   if($row!=null)
          {
            $t=$row[0];
            $fc=$row[1];
```

```
        }
}

$_SESSION['tes']=$t;
$qyr="Select * from $t where tblname='tutorquestionbank'";
$rs1=mysql_query($qyr,$link) or die ("SELECT error: ".mysql_error());
while($row = mysql_fetch_array( $rs1 ))
{
  if($row!=null)
        {
          $r=$row[0];
          $s=$row[1];
        }
$qurs="select question,choice1,choice2,choice3,choice4,choice5,answer from $r where questionid=$s";
$rs2=mysql_query($qurs,$link) or die ("SELECT error: ".mysql_error());
$row = mysql_fetch_array( $rs2);
if($row!=null)
{
 ?>
<h3><?php echo $row[0]?></h3></br>
<input id="poBoxRadioNo" name="poBoxRadio" type="radio" class="radio-btn"
value='a' /> <?php  echo $row[1] ?></br>
<input id='poBoxRadioNo' name='poBoxRadio' type='radio' class='radio-btn' value='b' /><?php
echo $row[2] ?></br>
<input id='poBoxRadioNo' name='poBoxRadio' type='radio' class='radio-btn' value='c' /><?php
echo $row[3] ?></br>
<input id='poBoxRadioNo' name='poBoxRadio' type='radio' class='radio-btn' value='d' /><?php
echo $row[4] ?></br>
<input id='poBoxRadioNo' name='poBoxRadio' type='radio' class='radio-btn' value='e' /><?php
echo $row[5] ?></br>
</br></br>
        <input type="button" name="b1" value="Ans" onclick="getPoBox(this,
'poBoxRadio','<?php echo $row[6] ?>','<?php echo $t ?>');" />
         </br></br>
<?php
}
}
?>
<center><a href="testfill.php">next</center>
</form>
<?php include("footer.html");?>
</body>
</html>
Test for fillups
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
<title>Online Examination System</title>
<?php include("index1.html");?>
<script type="text/javascript">
```

```
<?php $c=0; ?>
function getPoBox(f,n,ad,tt)
{
 var ans=document.getElementById(n).value;
 if(ans!="")
 {
 location.href="myPage1.php?a="+ans+"&b="+ad+"&ta="+tt;
 }
}
</script>
</head>
<body>
<form  method="post" name="fe">
<?php
 $i=1;
$link = mysql_connect("localhost", "root")
or die("Could not connect: " . mysql_error());
mysql_select_db("onlineexam",$link) or die ("Can\'t use foo: ". mysql_error());
session_start();
$subjt=$_SESSION['course'];
$chatr=$_SESSION['chapter'];
echo("<center><h3>".$subjt."Question Paper</h3></center>");
echo("<h5>FILL UPS</h5>");
$query1="select test_dbname from questionpaper where test_name='$chatr' and course_id='$subjt'" ;
$rs=mysql_query($query1,$link) or die ("SELECT error: ".mysql_error());
while( $row = mysql_fetch_array( $rs ) )
 {
   if($row!=null)
          {
            $t=$row[0];
          }
 }
 $qyr="Select * from $t where tblname='ccip'";
 $rs1=mysql_query($qyr,$link) or die ("SELECT error: ".mysql_error());
 while( $row = mysql_fetch_array( $rs1 ) )
 {
   if($row!=null)
          {
            $r=$row[0];
            $s=$row[1];
          }
$quro="select question,answer1 from $r where questionid=$s";
$rs2=mysql_query($quro,$link) or die ("SELECT error: ".mysql_error());
$row = mysql_fetch_array( $rs2);

   if($row!=null)
          { ?>
          <h3><?php echo $row[0]?></h3></br>

            Answer1:<textarea rows='1' cols='17' name='fill<?php echo $i ?>' id='fill<?php echo $i ?>'
class='radio-btn' /></textarea>
```

```
            <input type="button" name="b1" value="Ans" onclick="getPoBox(this,'fill<?php echo $i
?>','<?php echo $row[1] ?>','<?php echo $t ?>');" />
<?php
}
$i++;
}
 ?>
<center><a href="testpara.php" >next</center>
</form>
<?php include("footer.html");?>
</body>
</html>
```

Paragraph test question:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
<title>Online Examination System</title>
<?php include("index.html");?>
<script type="text/javascript">
<?php $c=0; ?>
function getPoBox(f,n,tt,qst){

var ans=document.getElementById(n).value;
location.href="myPage3.php?a="+ans+"&b="+tt+"&ta="+qst;

 }
</script>
</head>
<?php
$i=1;
$link = mysql_connect("localhost", "root")
or die("Could not connect: " . mysql_error());
mysql_select_db("onlineexam",$link) or die ("Can\'t use foo: ". mysql_error());
session_start();
$subjt=$_SESSION['course'];
$chatr=$_SESSION['chapter'];
echo("<center><h3>".$subjt."Question Paper</h3></center>");
echo("<h5>FILL UPS</h5>");
$query1="select test_dbname from questionpaper where test_name='$chatr' and course_id='$subjt'" ;
echo("<h5>PARAGRAPH QUESTION</h5>");
$rs=mysql_query($query1,$link) or die ("SELECT error: ".mysql_error());
while( $row = mysql_fetch_array( $rs ) )
 {
  if($row!=null)
        {
          $t=$row[0];
```

```
        }
}
$qyr="Select * from $t where tblname='hardware'";
$rs1=mysql_query($qyr,$link) or die ("SELECT error: ".mysql_error());
while( $row = mysql_fetch_array( $rs1 ) )
{
  if($row!=null)
        {
          $r=$row[0];
          $s=$row[1];
        }
$quro="select question from $r where questionid=$s";
$rs2=mysql_query($quro,$link) or die ("SELECT error: ".mysql_error());
 while( $row = mysql_fetch_array( $rs2))
{
  if($row!=null)
        {?>
          <h3><?php echo $row[0]; ?></h3>
          Answer1:</br><textarea rows='10' cols='100' name='para<?php echo $i ?>' id='para<?php
echo $i ?>' class='radio-btn' /></textarea>
          <input type="button" name="b1" value="Ans" onclick="getPoBox(this,'para<?php echo $i
?>','<?php echo $t ?>','<?php echo $row[0] ?>');" />
          <?php
        }
}
$i++;
}
?>
<body>
<form action="result.php" method="post">
<center><input type="submit" value="Final submit" name="sud"/></center>
</form>
<?php include("footer.html");?>
</body>
</html>
```

Result:

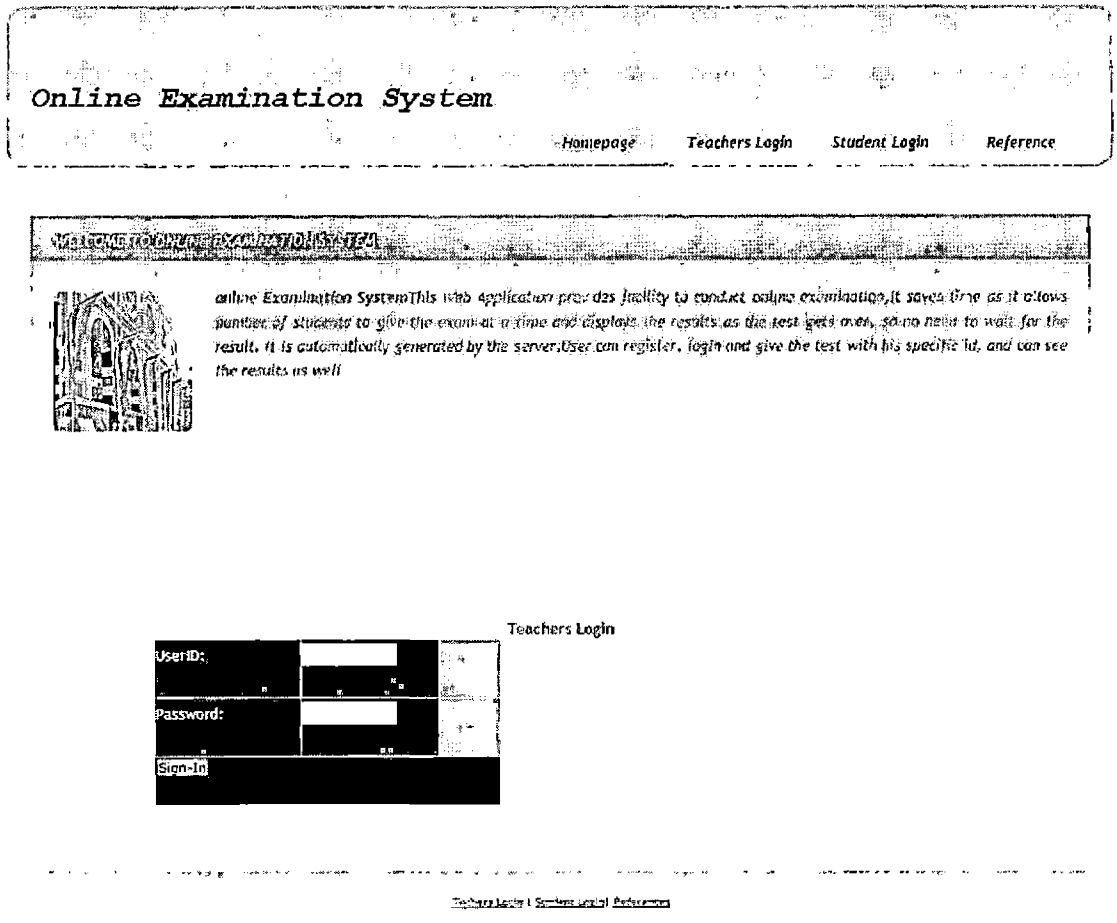
```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
<link href="default.css" rel="stylesheet" type="text/css" />
<title>Online Examination System</title>
<?php include("index.html");
$link = mysql_connect("localhost", "root")
or die("Could not connect: " . mysql_error());
mysql_select_db("onlineexam",$link) or die ("Can\'t use foo: ". mysql_error());
session_start();
$test1=$_SESSION['tes'];
```

```
$uid=$_SESSION['user'];
?>
</head>
<h1 align="right"><a href="stulogin.php">LOGOUT</a></h1>
<body>
<?php
$iloop=0;
$jloop=0;
$query1="select userans,result from result where qpid='$test1' and studentid=$uid and
qtype='objective'";
$rs=mysql_query($query1,$link) or die ("SELECT error: ".mysql_error());

while($row = mysql_fetch_array( $rs))
 {
  if($row!=null)
        {
          $usr=$row[0];
          $ans=$row[1];
          if($usr==$ans)
          {
          $iloop++;
          }
        }
 }

 $query1="select userans,result from result where qpid='$test1' and studentid=$uid and qtype='fillup'";
$rs=mysql_query($query1,$link) or die ("SELECT error: ".mysql_error());

while($row = mysql_fetch_array( $rs))
 {
  if($row!=null)
        {
          $usr=$row[0];
          $ans=$row[1];
          if($usr==$ans)
          {
          $jloop++;
          }
        }
 }
 echo "<center><h2>UR Score for objective : ".$iloop."</h2></center>";
 echo "<center><h2>UR Score for fillup : ".$jloop."</h2></center>";

 $quer1="insert into viewresult values($uid,'$test1',$iloop,$jloop,0)";
 $rss=mysql_query($quer1,$link) or die ("INSERT error: ".mysql_error());
 echo "<br><br><h2> Ur paragraph question result will be updated soon.</h2>";
 include("footer.html");

 ?>
</body>
</html>
```

APPENDIX C

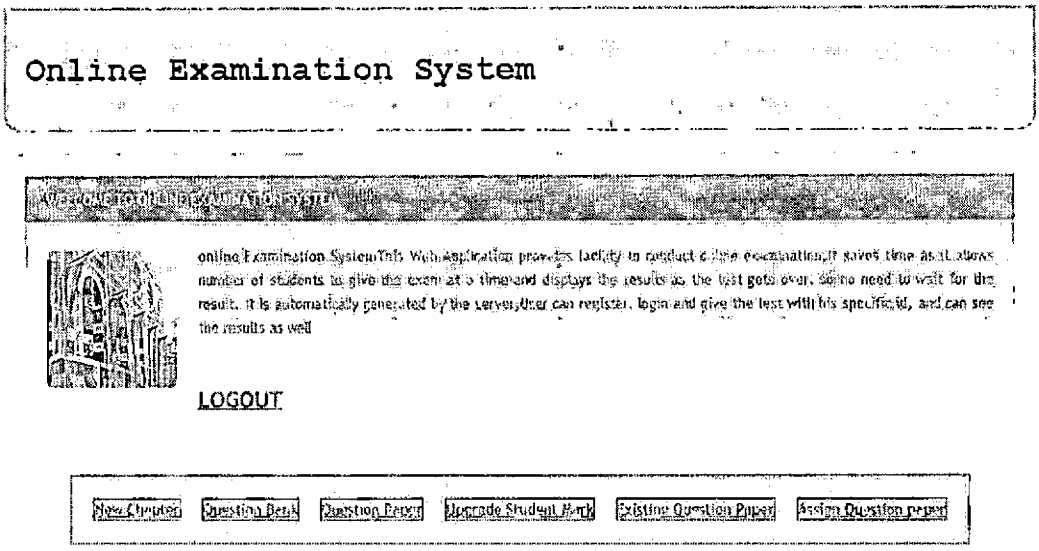
SCREEN SHOTS

Teacher Login:



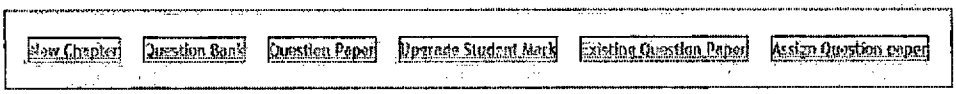
This is the page where registered teacher can login.

Teacher Home-page:



After logging in, teacher gets on this page, where he/ she has multiple tabs to choose based on his/ her requirement.

New Chapter:



EXISTING COURSE NAME AND CHAPTER

COURSE NAME	CHAPTER
CHEMISTRY	chapter3
CHEMISTRY	chapter2
CHEMISTRY	chapter1
CHEMISTRY	chapter4
MATHS	chapter8
MATHS	chapter7
MATHS	chapter0
MATHS	chapter5
MATHS	chapter14
MATHS	chapter9
MATHS	chapter1
MATHS	chapter3
MATHS	chapter2
MATHS	chapter4
PHYSICS	chapter3
PHYSICS	chapter2
PHYSICS	chapter1

Select the Course Name: select the course name

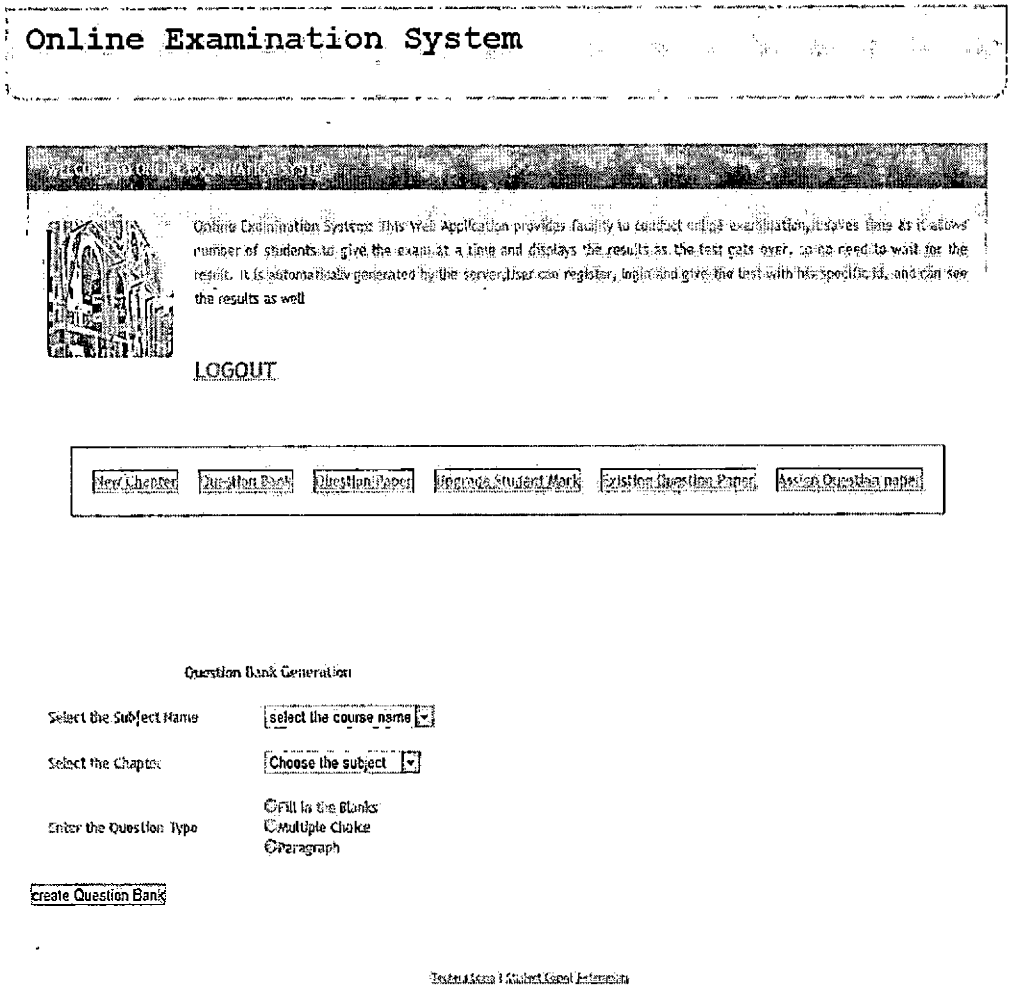
Enter the new Subject:

Add

<---Previous.....

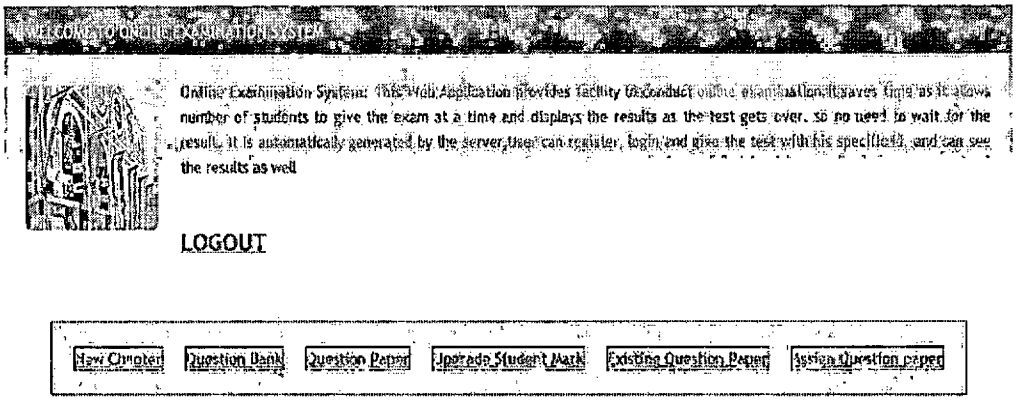
This is the first tab "New Chapter", where teacher can look for the existing chapters and can create new for the specified course name.

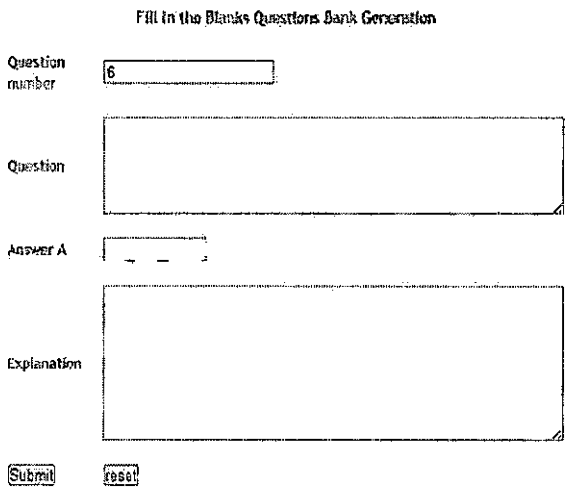
Question Bank:



On this page a teacher can add all three types (Fill in the blanks, Multiple Choice and Paragraph) of new questions for the particulate subject name and the chapter.

New Fill in the Blanks Question:





This is the page where a teacher can add Fill in the Blanks type new question.

New Multiple Choice Question:

<--Previous--choose the subject
--Next-->Creat the question paper

Multiple Choice Questions Bank Generation

Question number 14

Question

Choice A

Choice B

Choice C

Choice D

Choice E

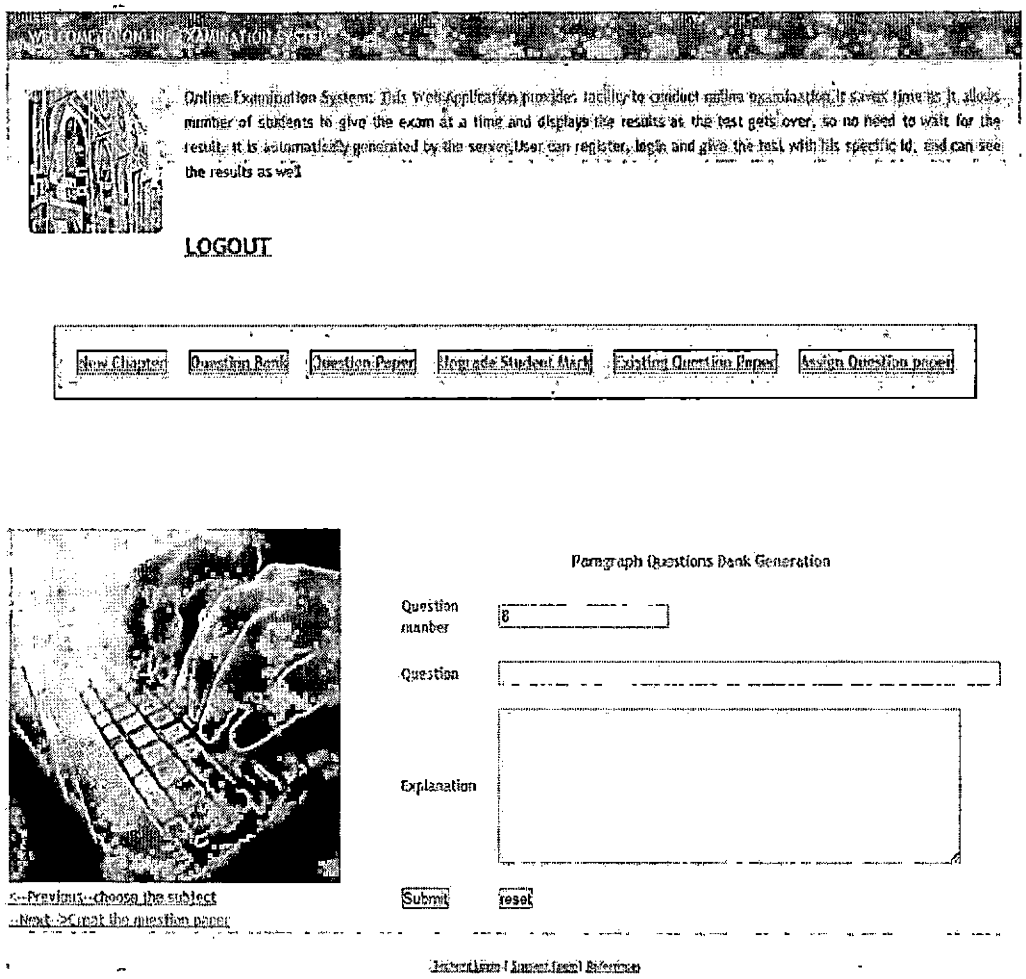
Answer

Explanation

Submit Reset

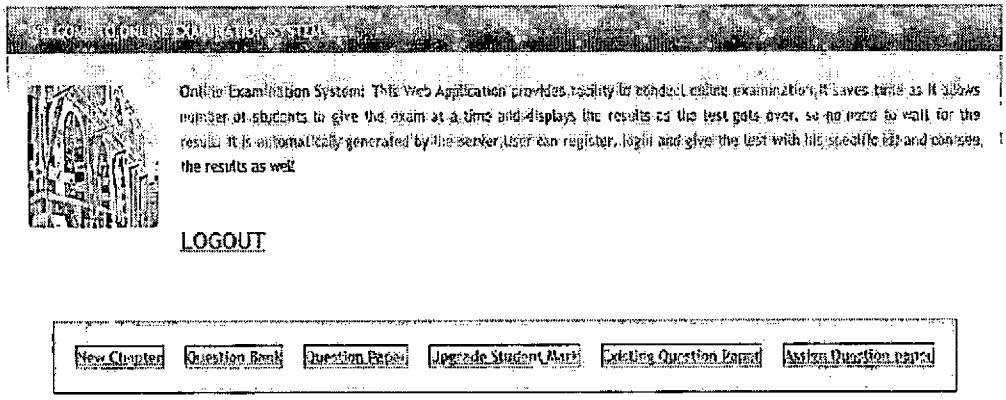
This is the page where a teacher can add Multiple Choice type new question.

New Paragraph Question:



This is the page where a teacher can add Paragraph type new question.

Question Paper:



On this page, a teacher can create new question paper for the particular course and subject.

Select Questions for Question Paper:

Pick Multiple Choice Question from Question bank

Multiple Choice Questions from Question Bank

1)If 'K' is a real constant and f(x) is a real quadratic in 'x' such that f(x + K) = f(-x) and the coe

x ^2 -2kx + c = 0
x ^2 +kx + c = 0
x ^2 -kx + c = 0
x ^2 +2kx + c = 0
NONE
Add to Question Paper

2) The integers x,y,z satisfy |x+2| + |y+3| - |z-5| = 1 then find the number of possible values of |x+y+

4
3
1
2
NONE
Add to Question Paper

3) The product of four distinct positive integers a, b, c, d is 8! The numbers also satisfy ab+a+b+1=3

7
5
6
8
NONE
Add to Question Paper

4) 20 % of 2 is equal to

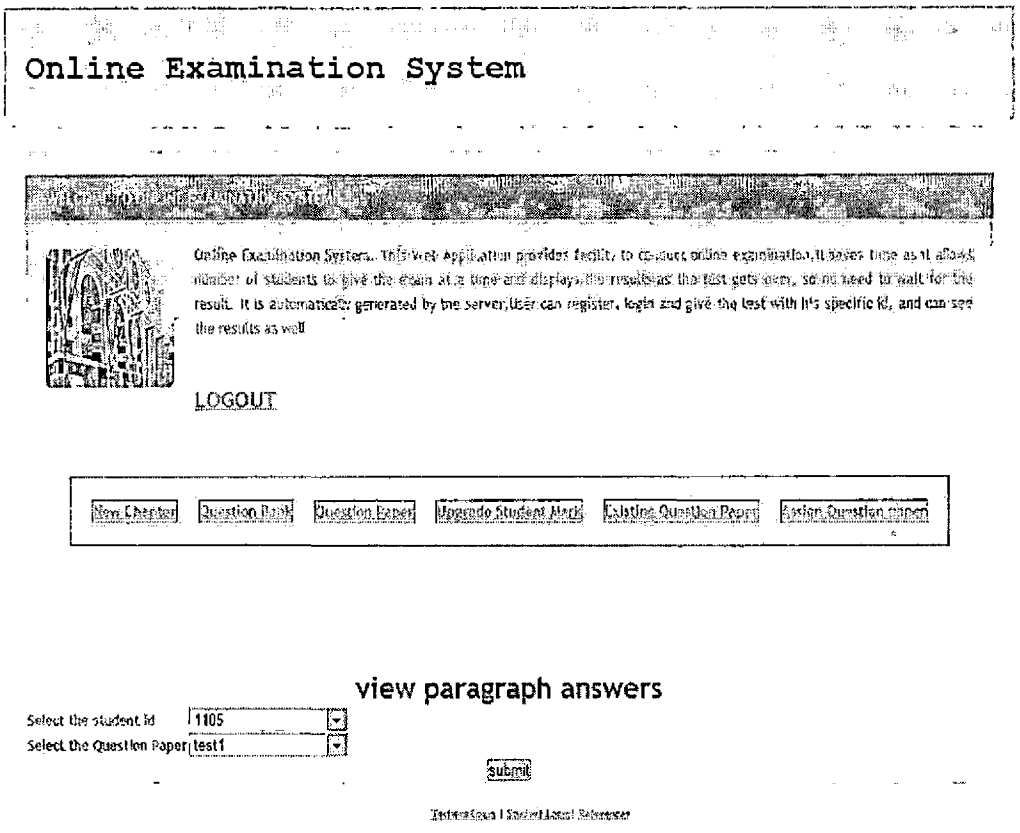
20
4
0.4
0.04
NONE
Add to Question Paper

5) dfhfgjhgkhjl

afh
hkj
tyuiu
qewe
none
Add to Question Paper

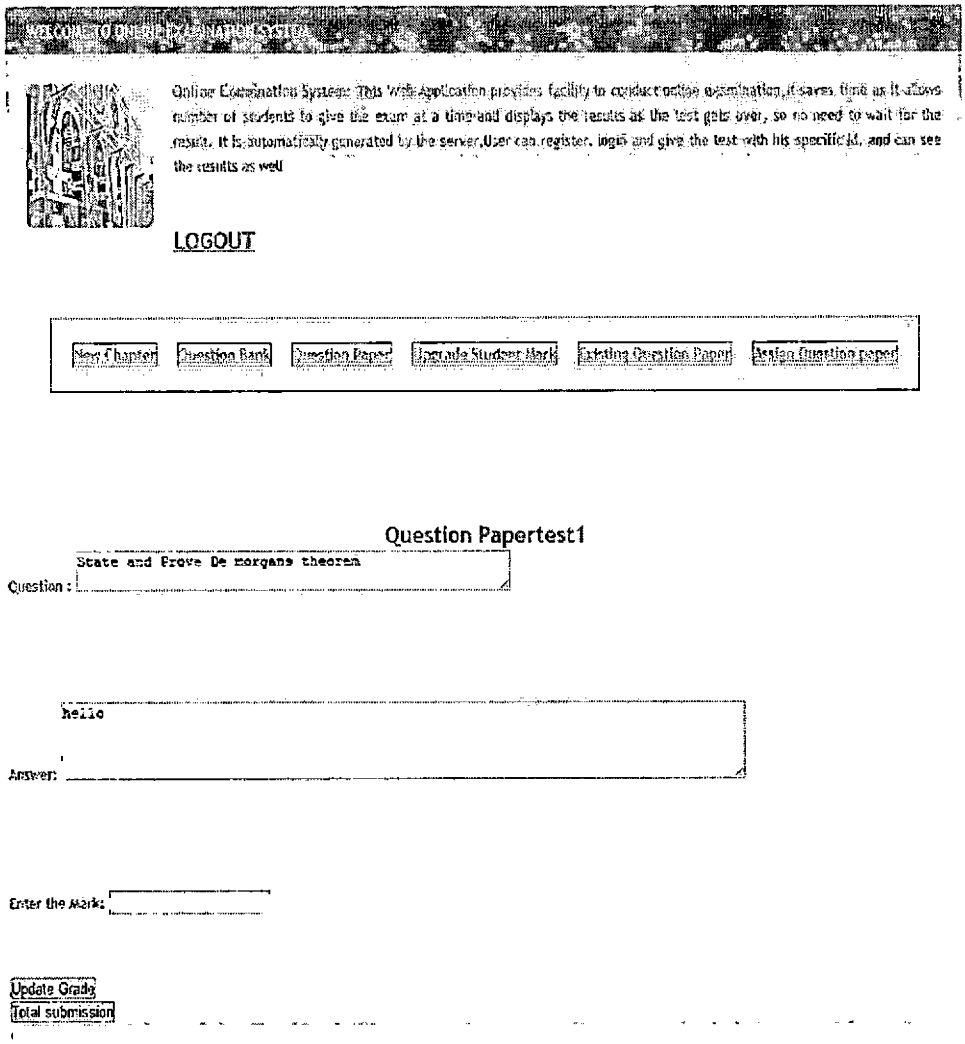
On this page, teacher can add the questions for his new question paper.

Upgrade Student Mark:



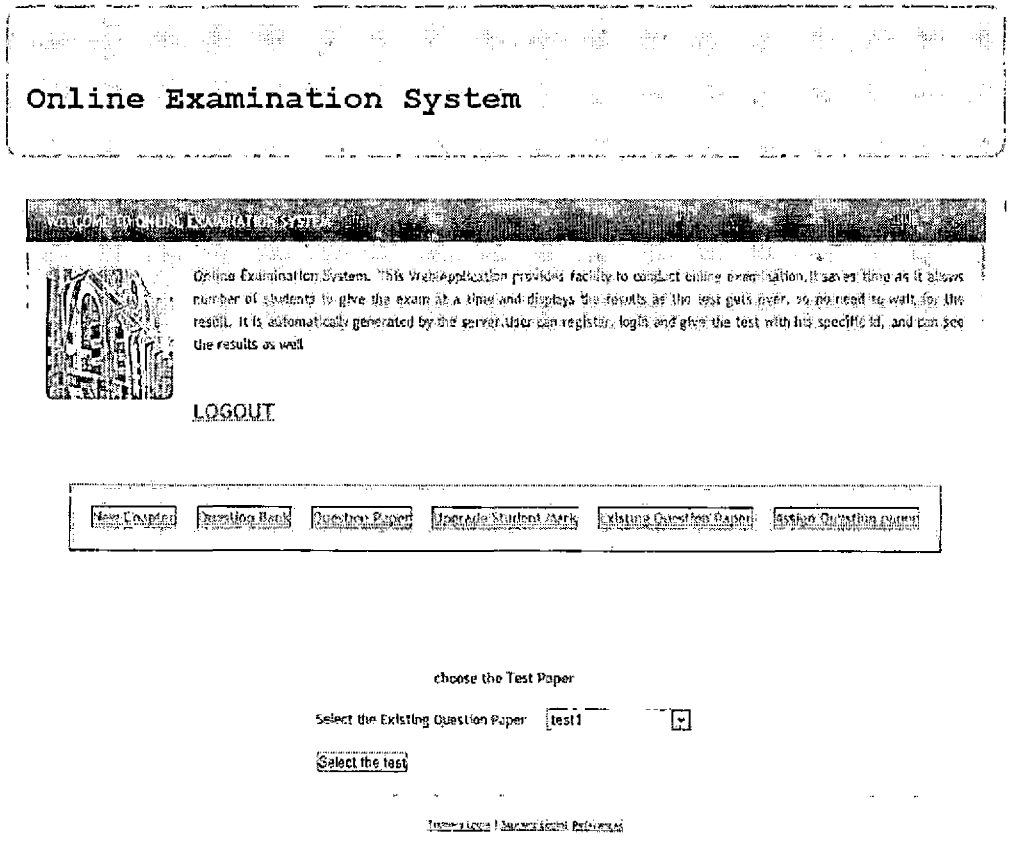
On this page, teacher can pick the student and the test taken by the student to grade the Paragraph type question's answer.

Grading Paragraph Question:



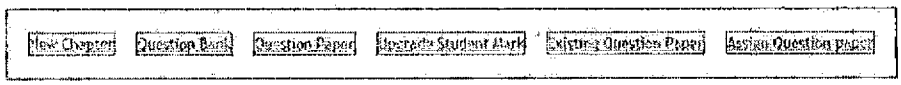
On this page, teacher can read and grade the paragraph type answers.

Existing Question Paper:



On this page, teacher can choose any the existing question paper to look up from the all available ones.

Existing Question Paper:



QUESTION PAPER

LOGOUT

test1 Question Paper

Multiple Choice:

1) If 'K' is a real constant and f(x) is a real quadratic in 'x' such that f(x + K) = f(-x) and the coe
x^2 -2kx + c = 0
x^2 +kx + c = 0
x^2 -kx + c = 0
x^2 +2kx + c = 0
NONE

2) 20 % of 2 is equal to
20
4
0.4
0.04
NONE

Fill in the Blanks :

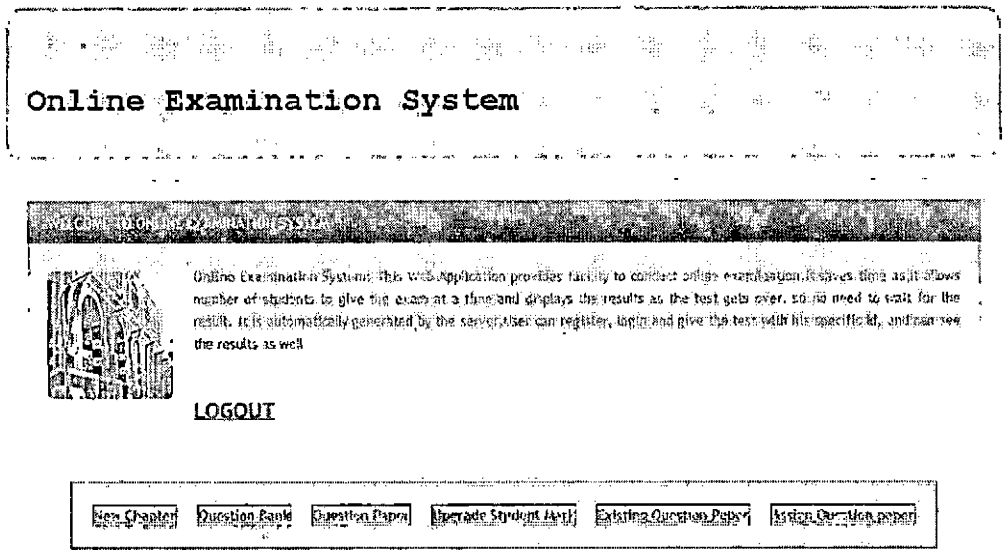
1) Find the number of ordered triplets(a,b,c) of positive integers for which LCM(a,b)=1000, LCM(b,c)=2000 and LCM(c,a)=2000.

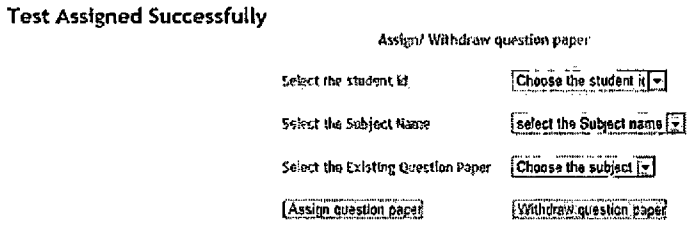
paragraph :

1) State and Prove De morgans theorem

On this page, teacher can look the existing question paper and its questions.

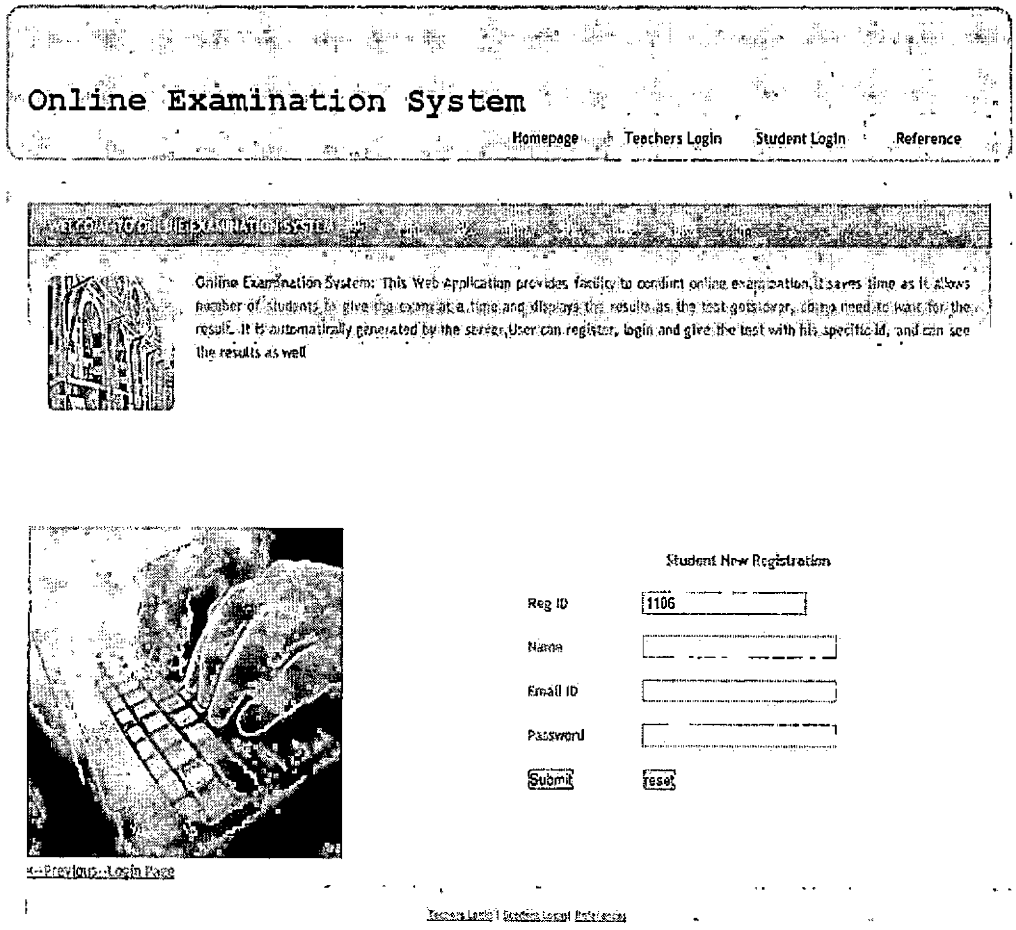
Assign/ Withdraw Question paper:





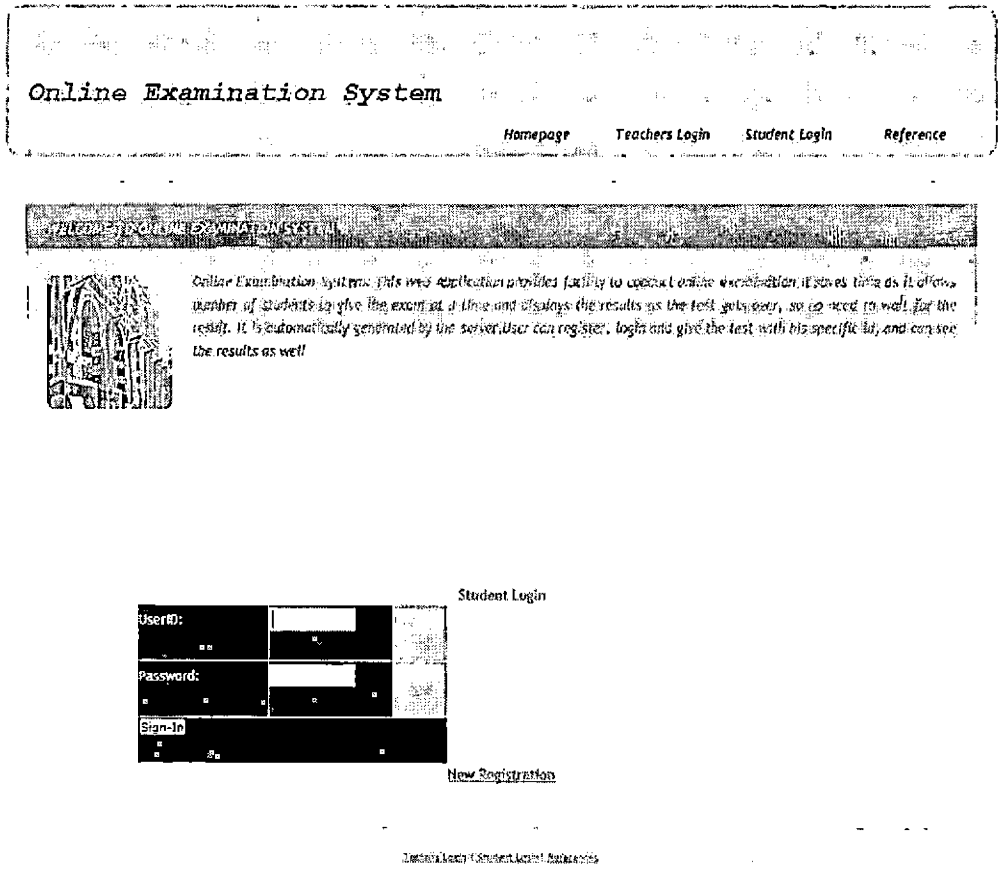
On this page, teacher can assign or withdraw selected question paper for the selected student.

New Student Registration:



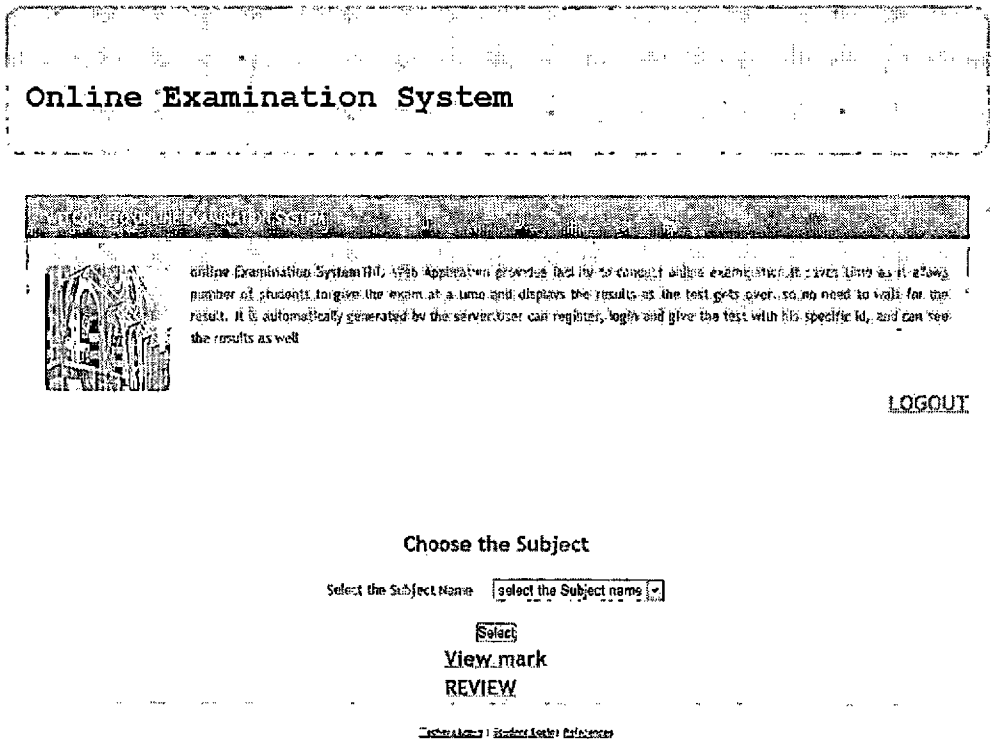
New Students can register on this page.

Student Login:



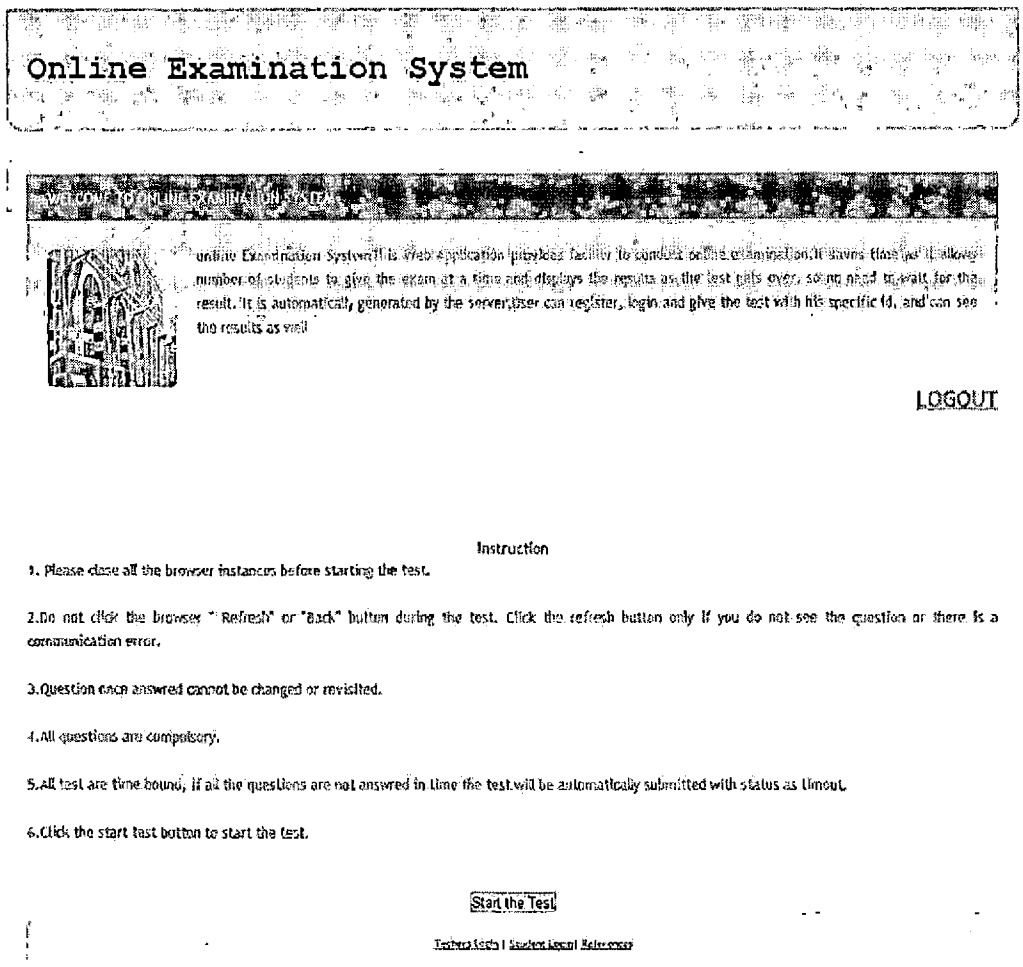
A registered student can login on this page.

Student Home page:



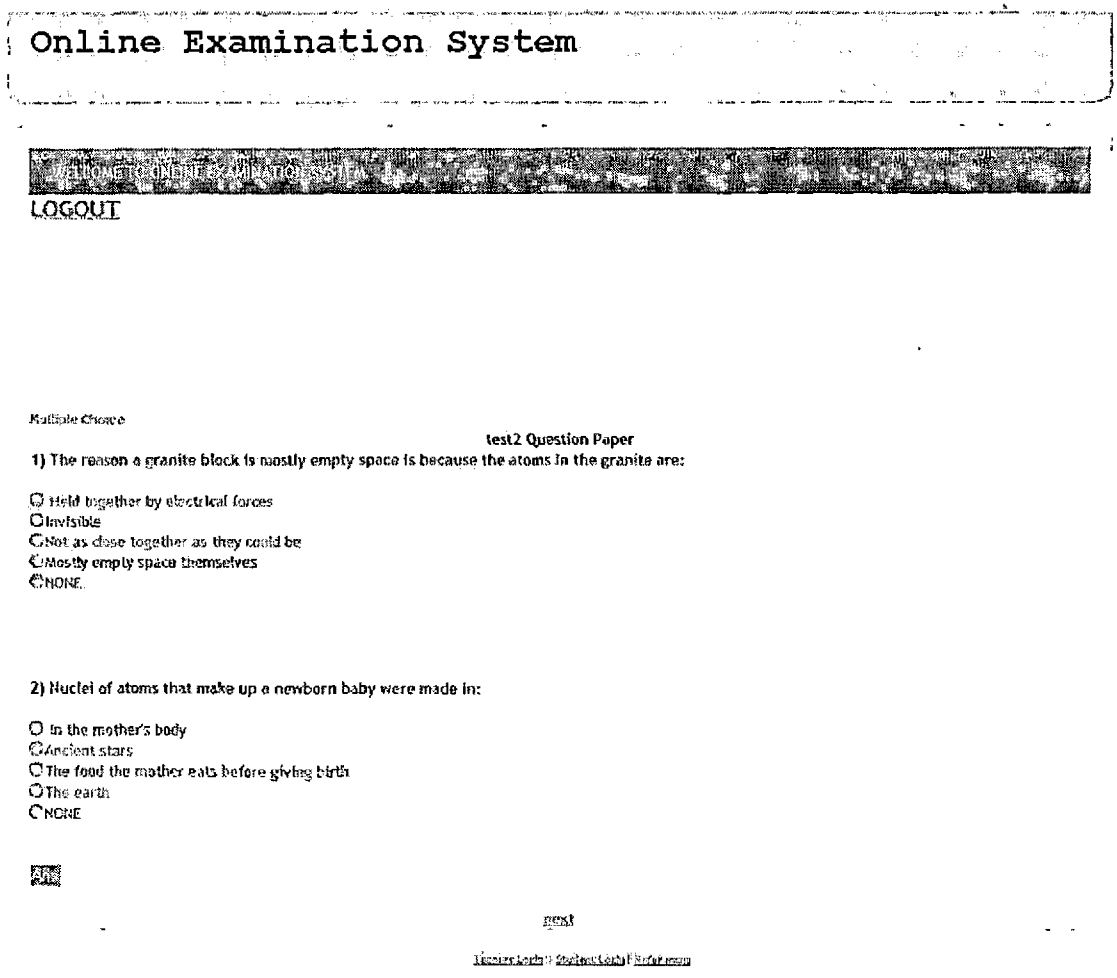
This is the page, a student can see after logging in and can select the Subject to take the test.

Instruction page:



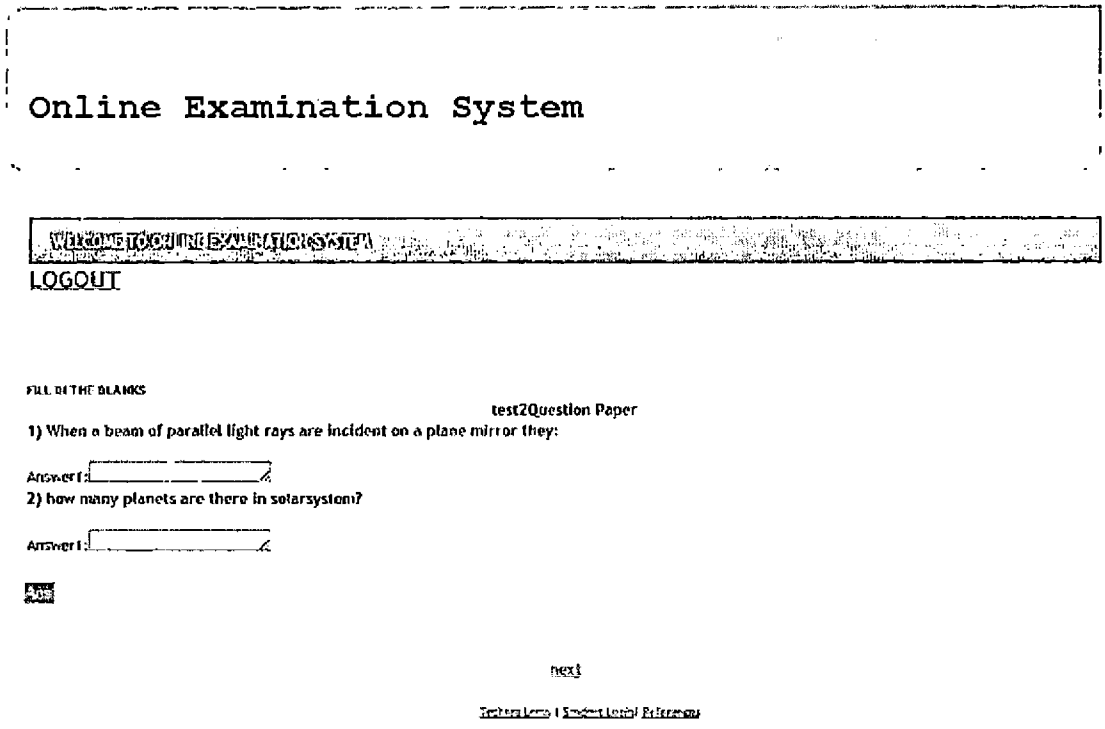
After selecting the subject and before starting the test, this page appears for the student.

Test (Multiple Choices):



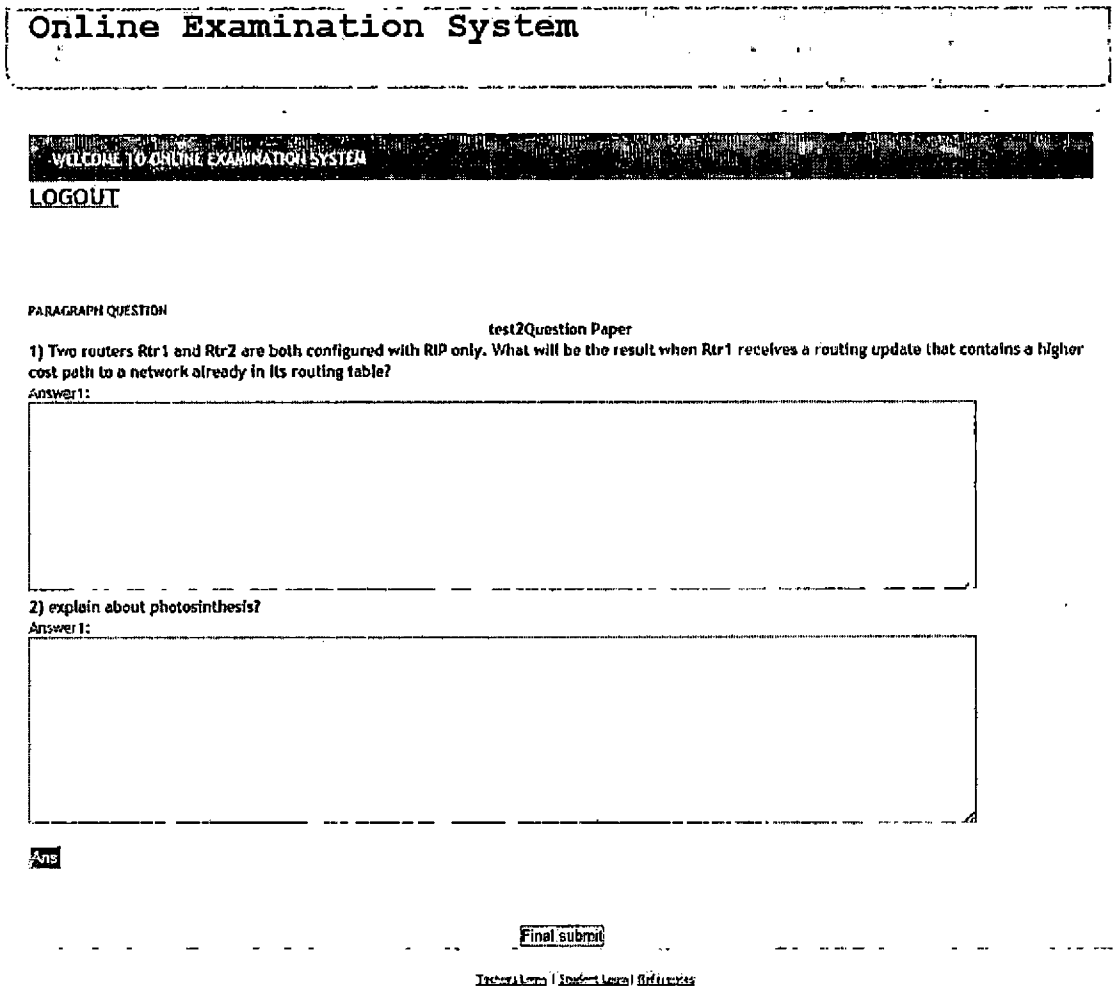
This is the test page, which appears after instruction. Here student can answer the multiple choice questions.

Test (Fill in the Blanks):



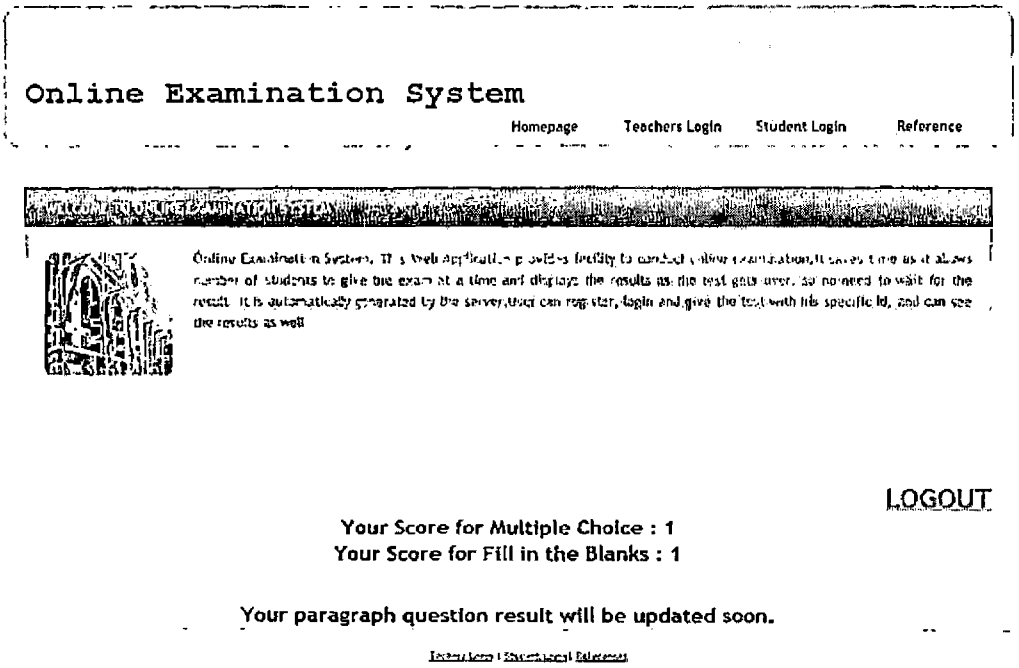
This is the test page, which appears after instruction. Here student can answer the fill in the blanks questions.

Test (Paragraph Type):



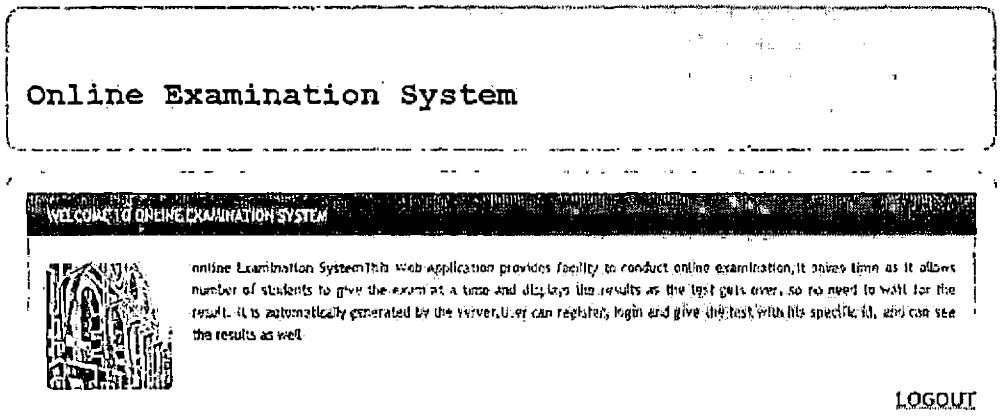
This is the test page, which appears after instruction. Here student can answer the Paragraph type questions.

Result page:



This page appears when the student finishes Paragraph type question and hits the Final Submit button.

Final Result page:



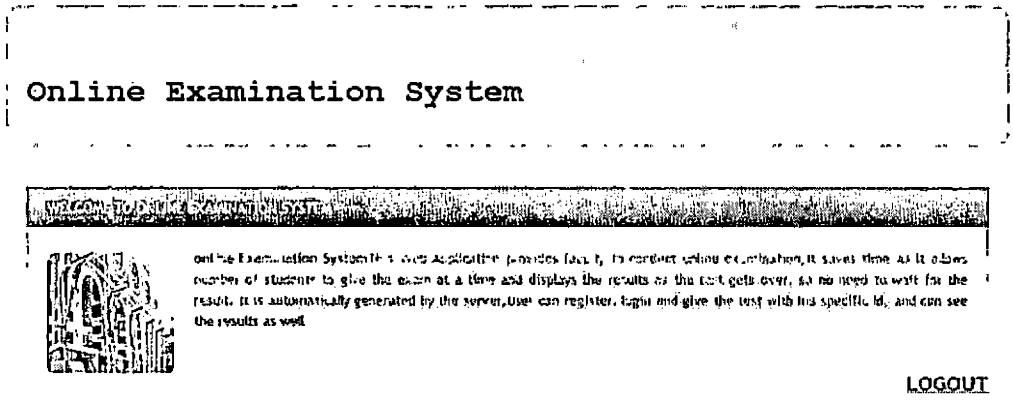
MARK REVIEW

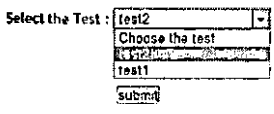
STUDENT ID	TEST NAME	MULTIPLE CHOICE	FILL IN THE BLANK	PARAGRAPH
1105	test2	1	1	0
1105	test1	2	1	5

Back

After selecting the "View Mark" link of the student home page, this page appears with all the scores, with the grades of the paragraph type answers once graded by the teacher.

Review:





This page appears, when the student needs to review his test. Here student choose the subject, which he wants to review.

Question Paper Review:

test2 Question Paper Review

MULTIPLE CHOICE

USER ANSWER:

1)C

2)a

MULTIPLE CHOICE QUESTION REVIEW

1)Question :
The reason a granite block is mostly empty space is because the atoms in the granite are:
A :Held together by electrical forces

B :Invisible

C :Not as close together as they could be

D :Mostly empty space themselves

E :NONE

Answer :
a

2)Question :
Nuclei of atoms that make up a newborn baby were made in:
A : In the mother's body

B :Ancient stars

C :The food the mother eats before giving birth

D :The earth

E :NONE

Answer :
a

This is the page, where student can review his answers.

REFERENCES

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[2] GUO Lei, "Research on the Security of the Item Pool and Transcript Pool of the Web-based Military Online Examination System [J]", Journal from Sci-Tech Information Development & Economy, 2009.

[3] Zhang, Zhuang and et al., "A Web-Based Examination and Evaluation System for Computer Education", Journal from IEEE, July 2006.

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[5] S. Maheshwari and R. Jain., *Introduction to SQL and PL/SQL*, India: Laxmi Publications, 2007.

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http://moodle.org/course/view.php?id=48

[7] 4Tests, a Free, Online, Practical Test Website
http://www.4tests.com/exams/exams.asp?cid=2

[8] Examination Online, A Web Based Exam Management System For Schools
http://www.examinationonline.com/school-and-teacher/

[9] Using MySQL in PHP Tutorial Website
http://www.w3schools.com/php/php_mysql_intro.asp

[10] HTML Tutorial Website
http://www.w3schools.com/html/

[11] XHTML Namsespace Website
http://www.w3.org/1999/xhtml

[12] PHP Official Website
http://www.php.net/manual/en/

[13] Dreamweaver Tutorial Website
http://www.teacherclick.com/dreamweaver8/index.htm

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http://tomcat.apache.org/download-70.cgi

[15] Tomcat Installation Guide
http://cse.csusb.edu/turner/wiki/
CSE_405_Tomcat_Setup_Instructions_for_Lab_Accounts

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http://dev.mysql.com/downloads/mysql/

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http://cse.csusb.edu/turner/wiki/
CSE_405_MySQL_Setup _Instructions_for_Lab_Accounts

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