

# **“ONLINE PROCTORING SYSTEM”**

*Submitted in partial fulfillment for the award of the degree of*

**Bachelor of Technology**

**In**

**Department Of Computer Science & Engineering**

**Session – 2021-22**



**Submitted by**

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*Under the supervision of*

**Asst. Prof. Saumya Panday**

**Department of Computer Science & Engineering**



**UNITED COLLEGE OF ENGINEERING & MANAGEMENT**

**NAINI, PRAYAGRAJ (U.P.)-211010**

**(Affiliated to Dr. APJ Abdul Kalam Technical University, Lucknow)**

**May 2022**

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**UNITED COLLEGE OF ENGINEERING & MANAGEMENT (342)**

**NAINI, PRAYAGRAJ (U.P.)-211010**

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May, 2022

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## DECLARATION

We hereby declare that work presented in this project report titled “Online proctoring System” submitted to the department of at United College of Engineering and Management, Prayagraj, in partial fulfillment of the requirement for the award of degree of Bachelor of Technology is an authentic record of our original work. We have not submitted the same work for the award of any other degree for any other university.

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## CERTIFICATE

This is to certify that Project Report entitled “Online Proctoring System” which is submitted by Shubham Kushwaha(1834210089) ,Vikas(1834210108), Udiyanshu Dubey(1834210103), Shubh Mehrotra(1834210088) in partial fulfillment of the requirement for the award of degree B. Tech. in the Department of CSE from United College of Engineering and Management Prayagraj affiliated to Dr. APJ Abdul Kalam Technical University, Lucknow, is a record of the candidates own work carried out by him under my/our supervision. The matter embodied in this project report is original and has not been submitted for the award of any other degree.

Supervisor Signature:-

Head of Department Name

Supervisor Name:-

HOD (Department Name)

(Supervisor)

Date:-

Date:-

## ACKNOWLEDGEMENT

It gives us a great sense of pleasure to present the report of the B. Tech Project undertaken during B. Tech. Final Year. We owe special debt of gratitude to **Asst. Professor Somya Panday, Department of Computer Science Engineering , United College of Engineering and Management, Prayagraj** for his/her constant support and guidance throughout the course of our work. His/her sincerity, thoroughness and perseverance have been a constant source of inspiration for us. It is only his/her cognizant efforts that our endeavors have seen light of the day.

We also take the opportunity to acknowledge the contribution of **Asst. Professor Jeetesh Srivastava, Head Of Department of Computer Science Engineering, United College of Engineering and Management , Prayagraj** for his full support and assistance during the development of the project.

We also do not like to miss the opportunity to acknowledge the contribution of all faculty members of the department for their kind assistance and cooperation during the development of our project. At last, we acknowledge the contribution and help of Lab staff for the completion of the project.

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## **ABSTRACT**

Recently remote learning has boomed. But there has been no proper solution to academic examinations. Some universities collected assignments, where students can copy and paste from the internet, while some have implemented remote proctoring, where a manual proctor keeps watching on student activities. If the way we are living is to be the new normal there is a need to find some solution. In this paper, we have proposed a solution where a manual proctor catches fraudulent activities of test taker and warns them during the exam. This system will be secure and cost-effective.

Online Proctoring System is a project developed to provide an easy way to develop student's skills. This project helps users by analysing the areas where students are weak and allows tests accordingly.



## LIST OF TABLES

Sr. No.	TABLE NO.	DETAIL OF TABLES
1	1.1	Tbl_faculty(faculty_name,faculty_id,total_english_total_math,qns_per_set,is_active,updated_date,added_date,time_duration)
2	1.2	Tbl_Student(student_id,First_name,Last_name,contact,password,_email,gender,updated_date,is_active,added_date,_faculty,Image)
3	1.3	Tbl_app(app_name,app_id,email,updated_date,contact,username,password,added_date,image_name)
4	2.1	Tbl_contact(user_id,user_email,subject,time,content,username)
5	2.2	Tbl_Questions(Question_id,question,first_answer,second_answer,third_answer,fourth_answer,reason,answer)
6	3.1	Tbl_result(result_id,question_id,student_id,user_answer,right_answer,added_date)
7	3.2	Tbl_result_summary(student_id,summary_id,marks,added_date,)
8	4.1	
9	4.2	

## LIST OF FIGURES

<b>Sr. No.</b>	<b>FIGURE NO.</b>	<b>DETAILS OF FIGURES</b>
<b>1</b>	<b>1.1</b>	DFD Level - 0
<b>2</b>	<b>2.1</b>	DFD level - 1
<b>3</b>	<b>2.2</b>	ER-Diagram
<b>4</b>	<b>2.3</b>	Schema Diagram
<b>5</b>	<b>2.4</b>	
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<b>7</b>	<b>3.1</b>	

# **Chapter-1**

## **Introduction**

This project is web-based software (website), which provides solution to the Online exam organizers who organize exams/test series on various platforms that can be used to conduct computer-based tests online.

The ability to efficiently proctor remote online examinations is an important limiting factor to the scalability of this next stage in education. Presently, human proctoring is the most common approach of evaluation, by either requiring the test taker to visit an examination center, or by monitoring them visually and acoustically during exams via a webcam.

The system hardware includes one webcam and a microphone, for the purpose of monitoring the visual and acoustic environment of the testing location.

The system continuously estimate the key behavior cues: user verification, voice detection, active window detection whereas the gaze estimation and phone detection by manual proctor. By combining the continuous estimation components, and applying a temporal sliding window, we design higher-level features to classify whether the test taker is not able to cheat at any moment during the exam.

To evaluate our proposed system, we collect multimedia (audio and visual) data from many subjects performing various types of cheating while taking online exams. Extensive experimental results demonstrate the accuracy, robustness, and efficiency of our online exam proctoring system.

## **Problem Statement**

Exams are a critical component of any educational program, and online educational programs are no exception. In any exam, there is a possibility of cheating, and therefore, its detection and prevention are important.

Educational credentials must reflect actual learning in order to retain their value to society. In a study it was stated that the percentage of students committing academic cheating activity is on the rise.

Nearly 73% of students in 2020 indicated that it would be somewhat easy to cheat in online exams. They also found that in 2020, about 29% of the students admitted to cheating in online exams.

When exams are administered in a conventional and proctored classroom environment, the students are monitored by a human proctor throughout the exam. In contrast, there is no convenient way to provide human proctors in online exams.

As a consequence, there is no reliable way to ensure against cheating. Without the ability to proctor online exams in a convenient, inexpensive, and reliable manner, it is difficult for MOOC providers to offer reasonable assurance that the student has learned the material, which is one of the key outcomes of any educational program, including online education.

## Proposed Solution

The aim of this work is to create a multimedia analysis method that can detect a wide range of cheating activities during an online exam session. Our planned online test process is divided into two stages: planning and exam. During the training process, the test taker must authenticate himself using a password and face authentication before starting the exam.

During the exam process, the test taker takes the exam while our OPS machine is continuously "monitoring" him or her for real-time cheating behavior detection. we collect audio-visual signals from the exam area and the test taker using three sensors (webcam, wear Cam, and microphone). The sensed data is first analyzed using six components to extract middle-level characteristics. User authentication, text identification, voice detection, responsive window detection, gaze prediction, and phone detection are among the components.

One of the main problems with online tests is that the test taker seeks help from another person on all or half of the exam. Throughout the exam session, an OPS machine should be able to consistently check whether the test taker is who he wants to be. The test taker is also required to complete the exam without the assistance of another person in the room. Reading from text is a significant method of cheating in a closed-book exam, because the text may be from a book, printout, notes, or something else. It is clear that the camera alone cannot spot this kind of cheat since the webcam does not "see" the book or printout. The wear Cam, on the other hand, catches everything in the test taker's field of view.

Since the detection of certain cheating behaviors depends on the activation of numerous behavior signals, it is critical to use a diverse and rich range of features to increase the overall detection efficiency of the OPS system. The rest of this section covers the following topics: (A) the hardware components of the OPS system, (B) through (G) the system's six basic components, and (H) the high-level functionality and classification of cheating actions.

# Chapter -2

## Objective

The purpose of the online examination system is to test the subject knowledge of the students. Such a system eliminates logistical hassles and drawbacks in the traditional mode of the pen-and-paper examination. Students don't have to assemble in the classroom to give the exam

## Scope of Project

01. **Conduct exams effortless:** Computer-based tests as a method of conducting an assessment enable users to manage an exam easily. The functionalities of an exam software such as user-friendly dashboard, multiple languages, support for multiple question types and formats, detailed reporting, automatic instant results help in smooth conduction.
02. **Reduce exam anxiety Amongst test takers:** The flexibility associated with computer-based tests reduces exam anxiety among test takers as they can take the exam at any time of the day that coincides with their preferred sleep/ wake cycle.
03. **Promote social interaction between the test taker and experts:** An online environment promotes exam preparation with experts or peers as they can review the course content together. Online assessment possible through exam software lays the real foundation of academic teaching as it facilitates discussion with teachers or other students.

04. **Prevents cheatings:** Cheating amongst the test-takers in the examination hall is one of the major drawbacks of pen paper-based assessment. Online examination managed avoids the possibilities of secretly using unfair means to get the right answers. The presence of various functionalities in exam software prevents cheating irrespective of the test taker's location.

05. **Safe and secure data:** Various tools offered by exam software have enabled the assessment conducting agencies to manage the crucial data related to examination questions and test-takers safely.

06. **Reduce administrative burden:** Organizing and running exams online not only reduces an organization's administrative burden (such as huge amount of paper) but also saves time of students as well as manual proctors as they can monitor from comfort of their homes & student can give exam from ease of their homes . Online examination with its objective to make evaluation massive but simple, cost-effective and faster has replaced the pen paper-based assessment.

## **Limitations**

- It requires an stable internet connection.
- It requires large database.
- Lack of Fairness.
- Privacy Violations.
- Negative Perceptions of Remote Proctoring.
- Compromised Accessibility.
- Increased Student Anxiety.
- Complex Technology Requirements.
- High Cost to Students.
- It is very difficult to analyze the exam manually.
- To take exam of more candidates more invigilators are required but no need of invigilator in case of on line exam.
- Results are not precise as calculation and evaluations are done manually.
- The chances of paper leakage are more in current system as compared to proposed system. Result processing takes more time as it is done manually



## Planning

1. In the current global scenario, it is nearly impossible to do offline proctoring due to the travel ban and lockdown in multiple countries.
2. Providing a proctored exam center near the **location** of the test taker is a significant challenge for most organizations administering any forms of tests.
3. **Qualified Proctors** are their so that they can proctor their test taker throughout the exam.
4. A limited supply of test centers or proctors also leads to **extended test schedules**.
5. In online test without proctoring, cases are often reported of **impersonation and cheating**. Students either ask some else to take the test on their behalf or use methods of cheating like referring to a textbook, using smartphones or other devices to search for answers online or taking help from a friend.

## Feasibility

After analysing the scope of the project, the feasibility study is very essential to be held. It is basically keeping the following points in mind.

**Developing for meeting:** This website has met its scope. As there is no data involved in the system, processing of files. The processing of this website is very simple as it has been designed in java script and it has been well divided into several functions according to the need.

**Economic Feasibility:** Economic analysis is most frequently used for evaluation of the effectiveness of the system. More commonly known as cost/benefit analysis the procedure is to determine the benefit and saving that are expected from a system and compare them with costs, decisions is made to design and implement the system

**Behavioural Feasibility:** People are inherently resistant to change and computer has been known to facilitate changes. An estimate should be made of how strong the user is likely to move towards the development of computerized system. These are various levels of users in order to ensure proper authentication and authorization and security of sensitive data of the organization.

**Technically feasible:** This website is very much technically feasible. This website is very much concerned with specifying equipment and the website will successfully satisfy almost all the user's requirements. The technical need for this system may vary considerably but might include:

- a. The facility to produce report instantly after finishing exam.
- b. Response time under certain conditions.
- c. Ability to process a file at a particular speed.

Therefore, the basic input/output of all files is identified. So, the project can easily be build up and it will also be technically feasible.

**State of Art:** The project is very much within the state of art since the project is a WINDOWS based; it uses very modern and common technique.

Beside it is very much modern and user friendly. It also works as middleware i.e. only in between the user and the file. So, it is completely a state of art project.

**Resources:** As motioned earlier that the resources are easily available and the cost of training is almost negligible. Sometimes situations may arise when it may not be so much easy. For a person completely unaware of using a computer system could result in a training cost or for a very small organization the purchase of a computer, instalment of the system and other charges may lead to a difficult matter.

**Touching User's mind:** The basic features of this software are simplicity, easily understandable, easily applicable. If this type of software is a new experience for the user is certainly going to be like it.

## **Hardware & Software Requirements**

- **SOFTWARE SPECIFICATION :**

The software packages are used

- ✓ Operating System: Windows 7
- ✓ Google Chrome version 7 or above , Firefox , etc.

- **HARDWARE SPECIFICATON:**

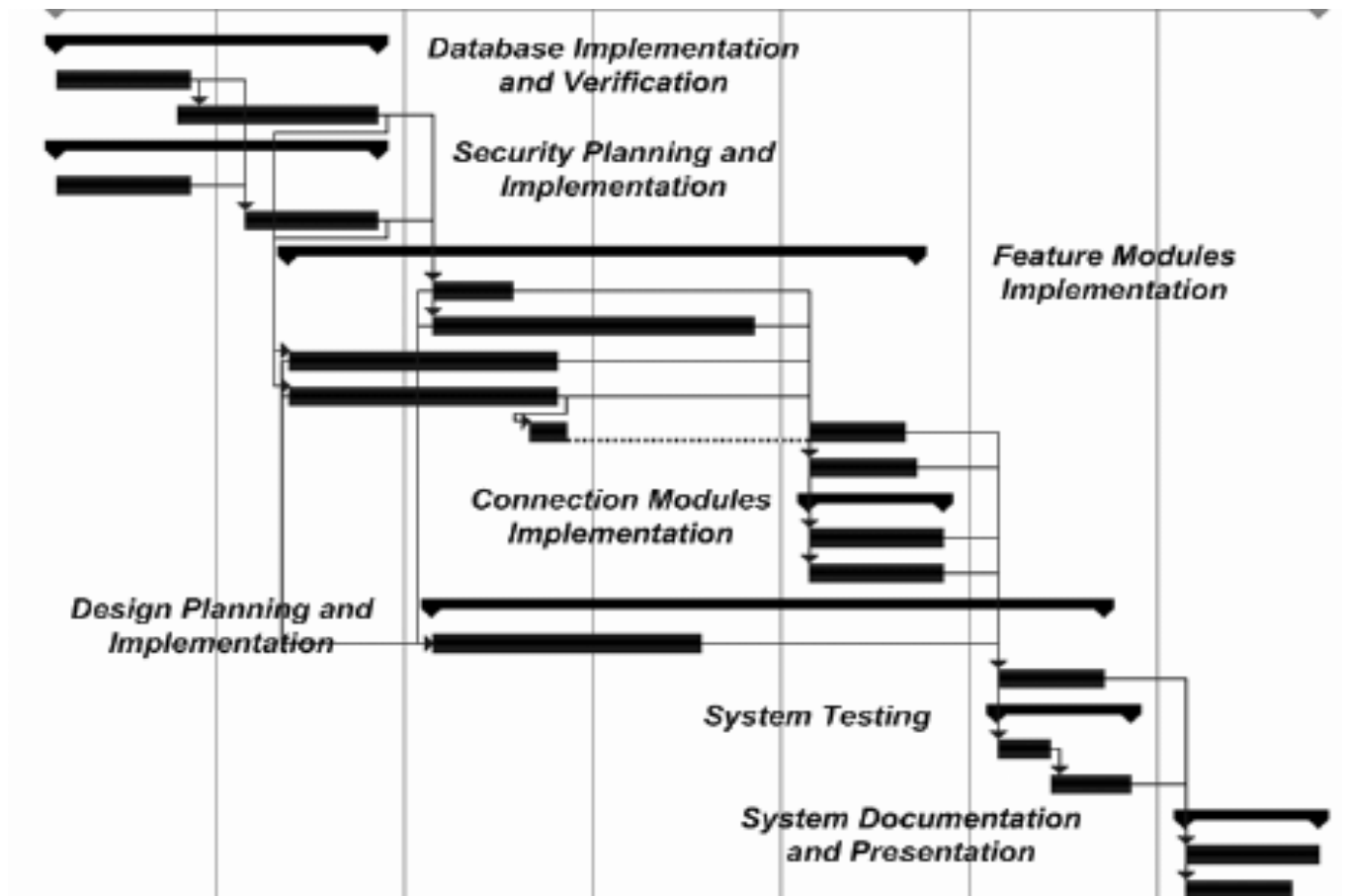
On the basis of above software specification we have decided the following configuration of hardware for server and client.

- ✓ PROCESSOR – Intel i3 3.06 GHz
- ✓ RAM- 4 GB
- ✓ HDD- 4 GB
- ✓ CD-ROM
- ✓ MONITOR- VGA COLOR
- ✓ WEBCAM
- ✓ MOUSE
- ✓ MICROPHONE

## Chapter-3

### Planning & Feasibility Analysis

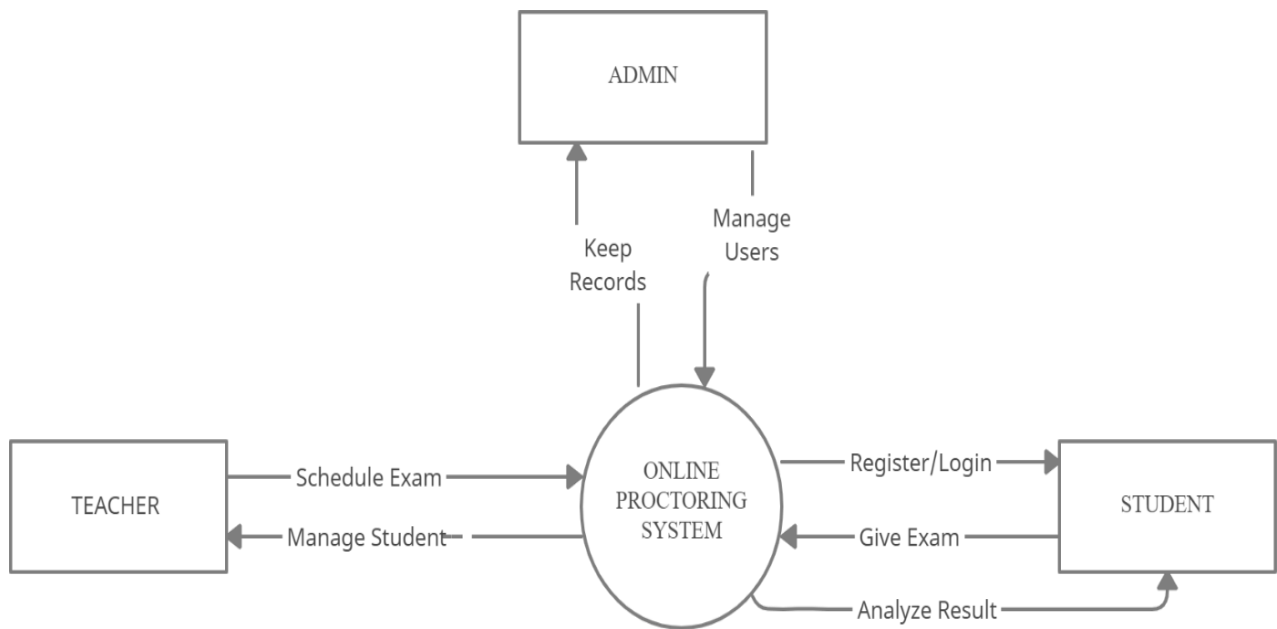
#### Gantt Chart



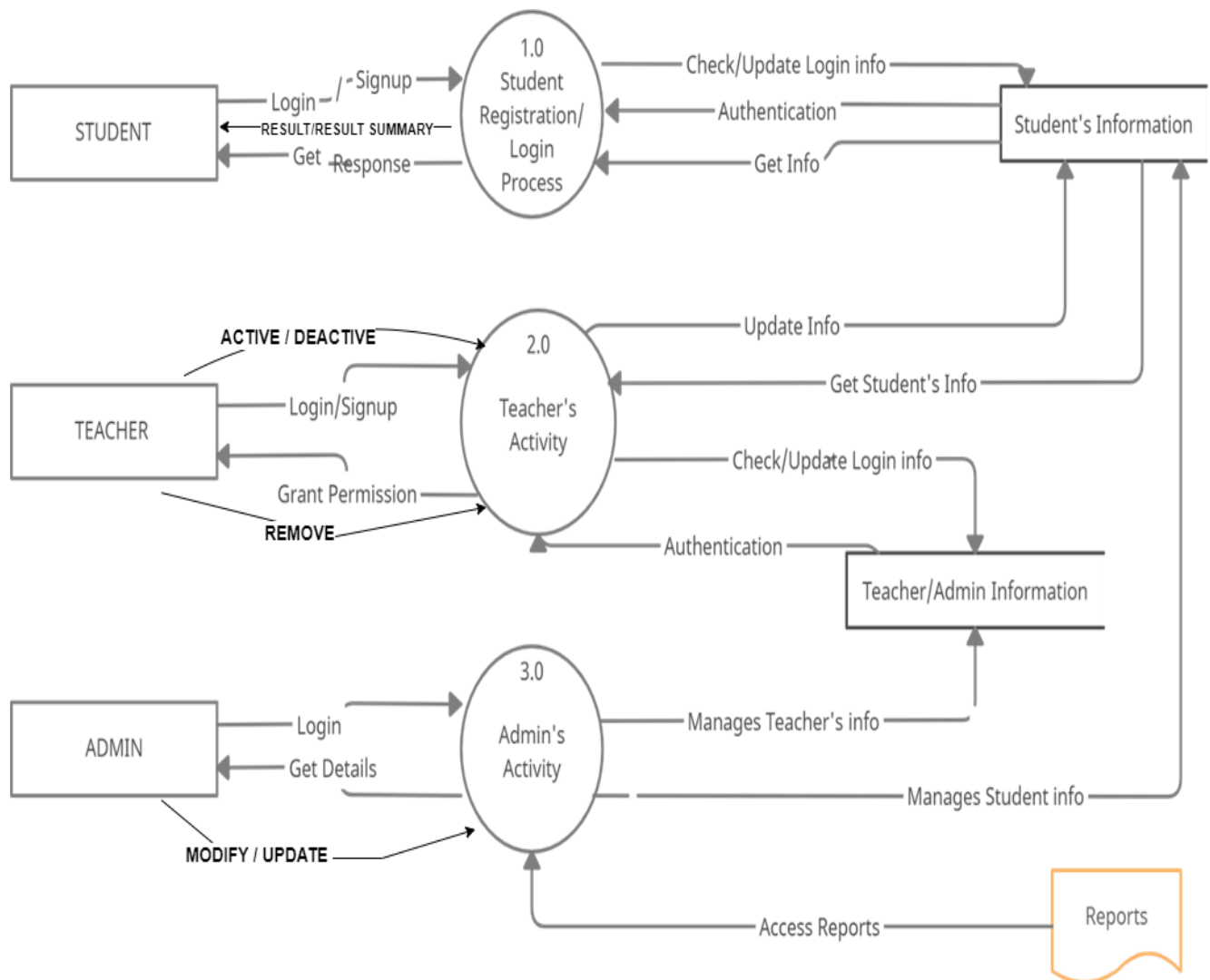
## Chapter-4

### Detailed Design

#### LEVEL - 0 DFD –



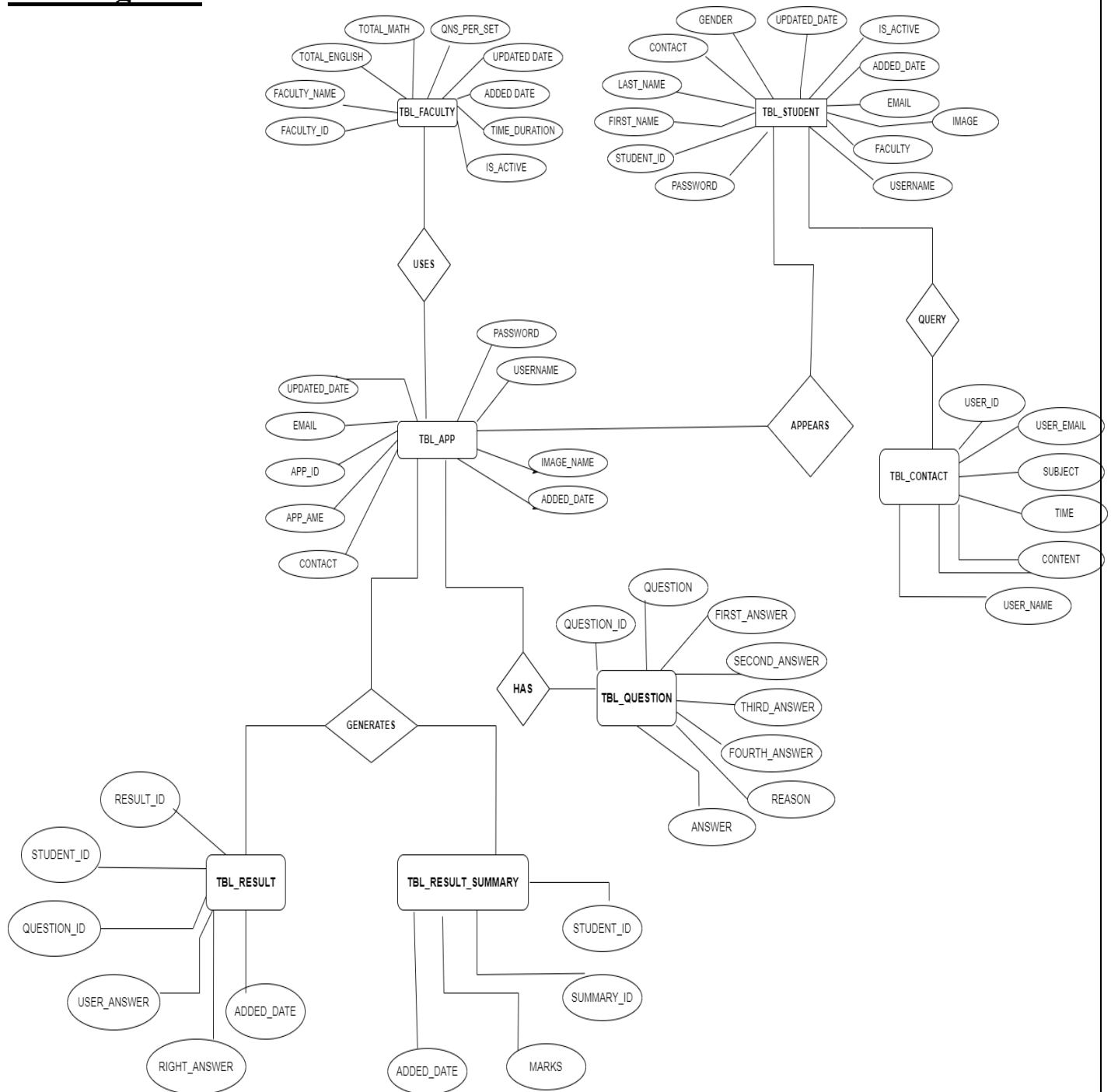
## LEVEL – 1 DFD –



# Chapter-5


## Database Design

### ER-Diagram-




## Schema Diagram


### Tbl\_Student

#	Name	Type
1	student_id 	int(10)
2	first_name	varchar(150)
3	last_name	varchar(150)
4	password	varchar(255)
5	contact	varchar(20)
6	gender	varchar(10)
7	faculty	varchar(50)
8	is_active	varchar(10)
9	added_date	date
10	updated_date	date
11	username	varchar(10)
12	email	varchar(20)
13	Logged_In	varchar(5)
14	login_time	datetime
15	image	varchar(50)


### Tbl\_Result\_Summary

#	Name	Type
1	summary_id 	int(10)
2	student_id	int(11)
3	marks	decimal(10,2)
4	added_date	date


### Tbl\_Result

#	Name	Type
1	result_id 	int(10)
2	student_id	int(11)
3	question_id	int(11)
4	user_answer	int(11)
5	right_answer	int(11)
6	added_date	date


### Tbl\_Question

#	Name	Type
1	question_id 	int(10)
2	question	longtext
3	first_answer	varchar(255)
4	second_answer	varchar(255)
5	third_answer	varchar(255)
6	fourth_answer	varchar(255)
7	fifth_answer	varchar(255)
8	answer	int(11)
9	reason	longtext
10	marks	decimal(10,0)
11	category	varchar(100)
12	faculty	int(11)
13	is_active	varchar(10)
14	added_date	date
15	updated_date	date
16	image_name	varchar(255)

### Tbl\_Faculty

#	Name	Type
1	faculty_id 	int(10)
2	faculty_name	varchar(150)
3	time_duration	int(11)
4	qns_per_set	int(11)
5	total_english	int(10)
6	total_math	int(10)
7	is_active	varchar(10)
8	added_date	date
9	updated_date	date

### Tbl\_Contact

#	Name	Type
1	user_id 	int(10)
2	user_name	varchar(20)
3	user_email	varchar(20)
4	subject	text
5	content	text
6	Time	datetime

### Tbl\_App

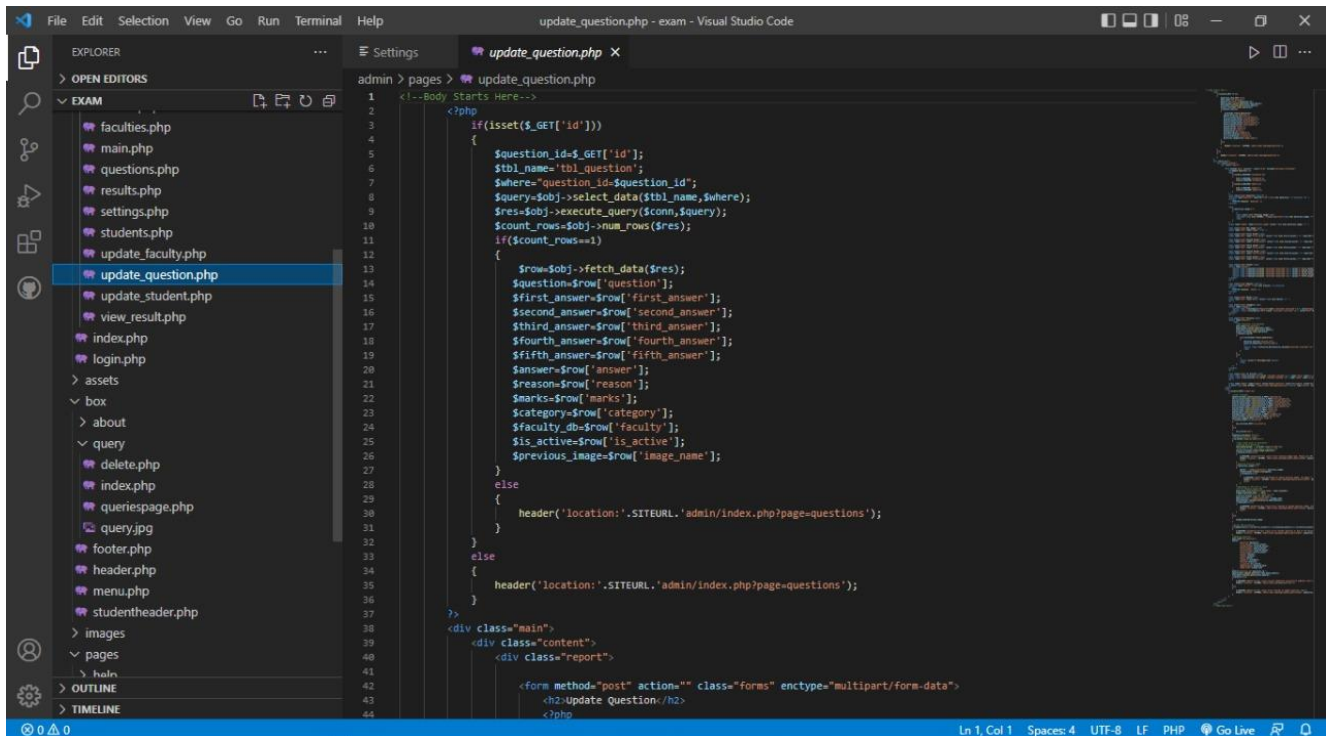
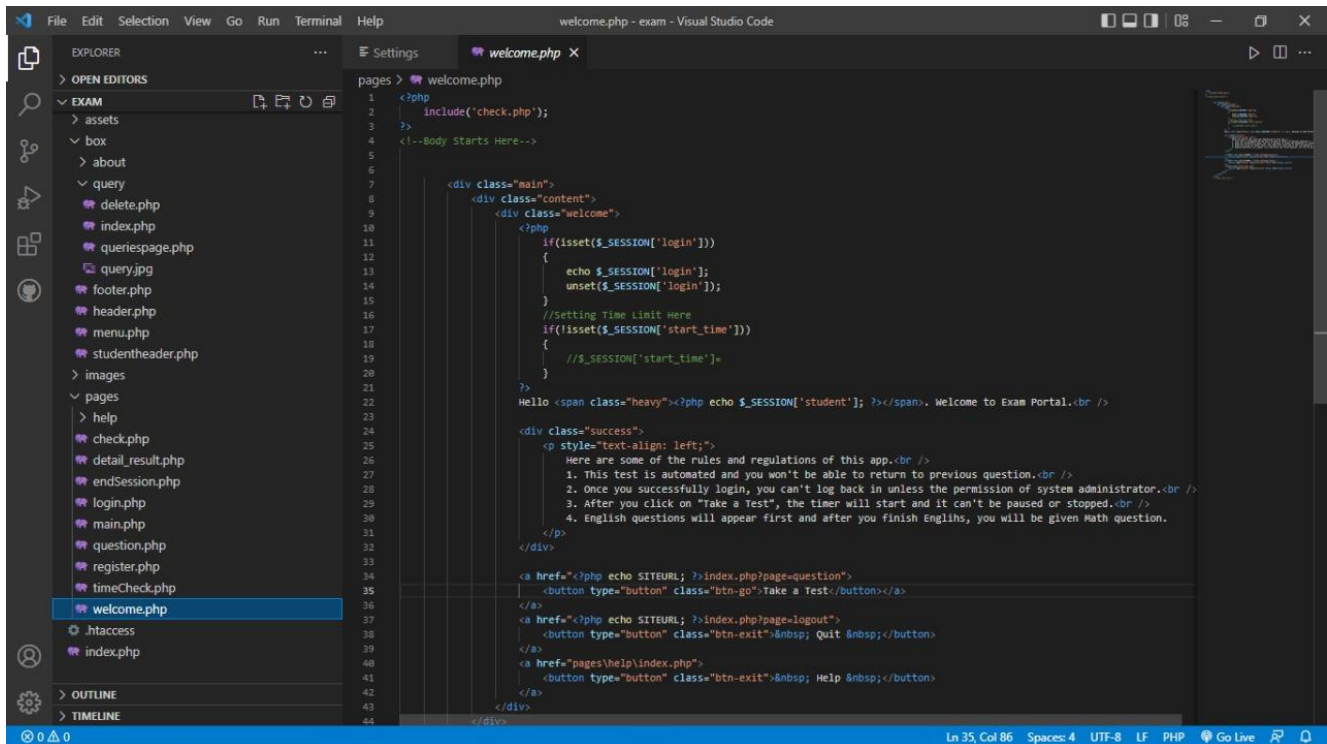
#	Name	Type
1	app_id 	int(10)
2	app_name	varchar(255)
3	email	varchar(200)
4	username	varchar(100)
5	password	varchar(255)
6	contact	varchar(20)
7	added_date	date
8	updated_date	date
9	image name	varchar(255)

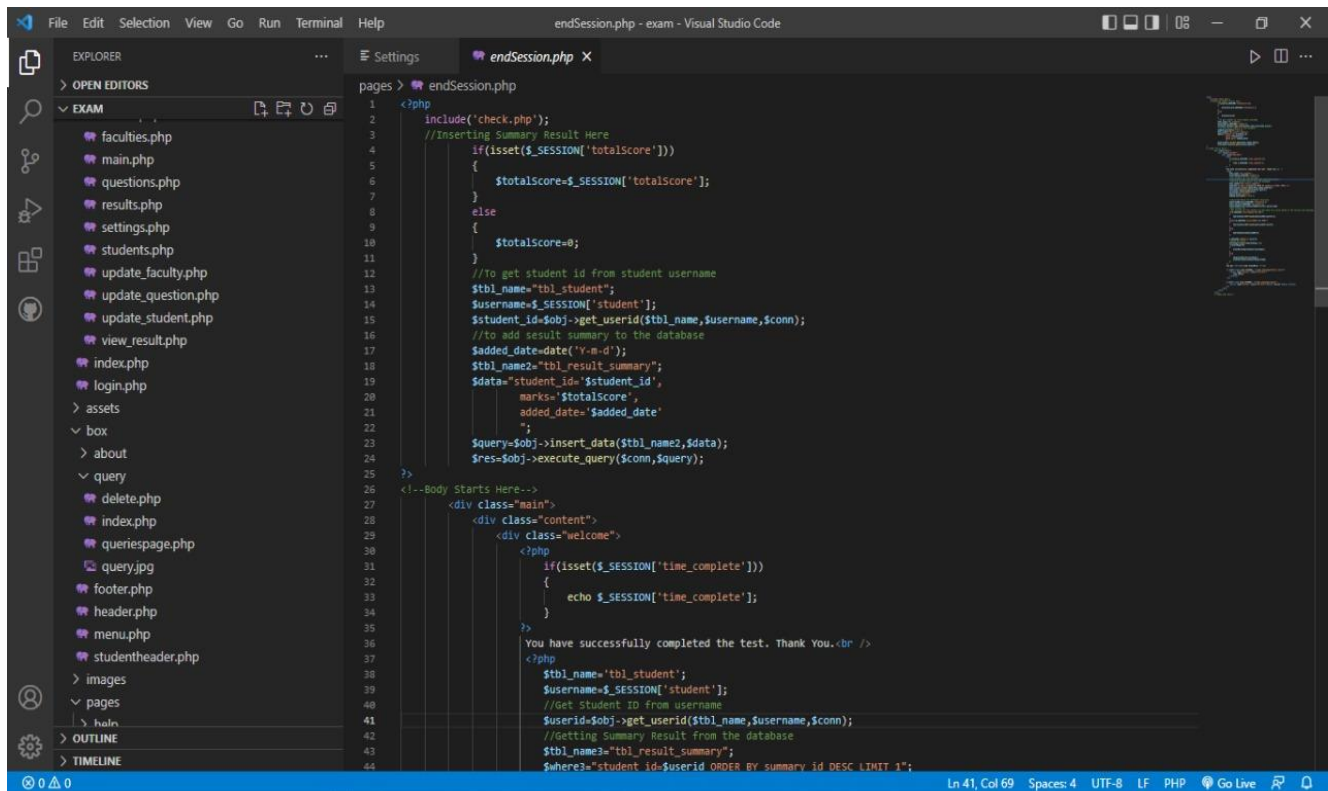
### Tbl\_Examinaion

#	Name	Type
1	student_id	int(11)
2	image	varchar(100)



## Sample Coding

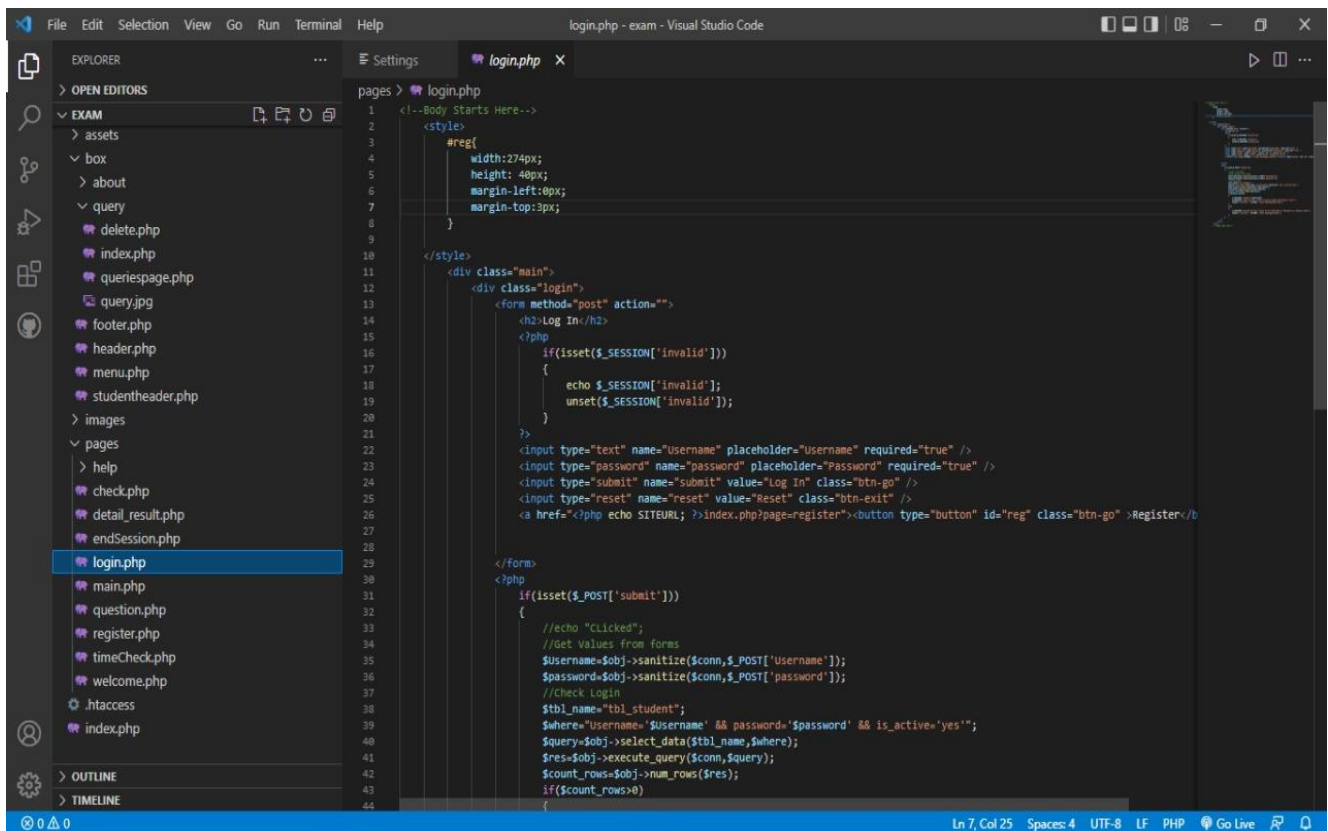




This screenshot shows the Visual Studio Code editor with the file `endSession.php` open. The Explorer sidebar on the left shows a project structure with folders like `EXAM`, `assets`, `box`, `pages`, and `query`. The main editor area displays PHP code that includes a session check, database operations to insert a summary, and HTML output for a success message. The code is as follows:

```
1 <?php
2 include('check.php');
3 //Inserting Summary Result Here
4 if(isset($_SESSION['totalscore']))
5 {
6     $totalscore=$_SESSION['totalscore'];
7 }
8 else
9 {
10    $totalscore=0;
11 }
12 //To get student id from student username
13 $tbl_name=$_tbl_student;
14 $username=$_SESSION['student'];
15 $student_id=$obj->get_userid($tbl_name,$username,$conn);
16 //To add result summary to the database
17 $added_date=date('Y-m-d');
18 $tbl_name2=$_tbl_result_summary;
19 $data="student_id='".$student_id'";
20     marks='".$totalscore'";
21     added_date='".$added_date'";
22 ";
23 $query=$obj->insert_data($tbl_name2,$data);
24 $res=$obj->execute_query($conn,$query);
25 ?>
26 <!--Body Starts Here-->
27 <div class="main">
28     <div class="content">
29         <div class="welcome">
30             <?php
31                 if(isset($_SESSION['time_complete']))
32                 {
33                     echo $_SESSION['time_complete'];
34                 }
35             ?>
36             You have successfully completed the test. Thank You.<br />
37             <?php
38                 $tbl_name=$_tbl_student;
39                 $username=$_SESSION['student'];
40                 //get Student ID from username
41                 $userid=$obj->get_userid($tbl_name,$username,$conn);
42                 //Getting Summary Result from the database
43                 $tbl_name=$_tbl_result_summary;
44                 $where3="student_id='".$userid' ORDER BY summary_id DESC LIMIT 1";
```

The status bar at the bottom indicates the cursor is at line 41, column 69, with 4 spaces, UTF-8 encoding, and LF line endings. It also shows the file is a PHP document.



This screenshot shows the Visual Studio Code editor with the file `login.php` open. The Explorer sidebar on the left shows a project structure with folders like `EXAM`, `assets`, `box`, `pages`, and `query`. The main editor area displays PHP code for a login form, including session validation, form processing, and database queries to verify user credentials. The code is as follows:

```
1 <!--Body Starts Here-->
2 <style>
3     #reg{
4         width:274px;
5         height: 48px;
6         margin-left:0px;
7         margin-top:3px;
8     }
9 </style>
10 <div class="main">
11     <div class="login">
12         <form method="post" action="">
13             <h2>Log In</h2>
14             <?php
15                 if(isset($_SESSION['invalid']))
16                 {
17                     echo $_SESSION['invalid'];
18                     unset($_SESSION['invalid']);
19                 }
20             ?>
21             <input type="text" name="Username" placeholder="Username" required="true" />
22             <input type="password" name="password" placeholder="Password" required="true" />
23             <input type="submit" name="submit" value="Log In" class="btn-go" />
24             <input type="reset" name="reset" value="Reset" class="btn-exit" />
25             <a href="<?php echo SITEURL; >index.php?page=register">button type="button" id="reg" class="btn-go" >Register</a>
26         </form>
27     </div>
28     <?php
29         if(isset($_POST['submit']))
30         {
31             //echo "Clicked";
32             //Get Values from forms
33             $username=$obj->sanitize($conn,$_POST['Username']);
34             $password=$obj->sanitize($conn,$_POST['password']);
35             //Check Login
36             $tbl_name=$_tbl_student;
37             $where="Username='".$username' && password='".$password' && is_active='yes'";
38             $query=$obj->select_data($tbl_name,$where);
39             $res=$obj->execute_query($conn,$query);
40             $count_rows=$obj->num_rows($res);
41             if($count_rows>0)
42             {
```

The status bar at the bottom indicates the cursor is at line 7, column 25, with 4 spaces, UTF-8 encoding, and LF line endings. It also shows the file is a PHP document.

```
1 <!--Body Starts Here-->
2 <?php
3 if(isset($_GET['id']))
4 {
5     $faculty_id=$_GET['id'];
6     //Getting Values fro the database
7     $tbl_name="tbl_faculty";
8     $where="faculty_id=$faculty_id";
9     $query=$obj->select_data($tbl_name,$where);
10    $res=$obj->execute_query($conn,$query);
11    $count_rows=$obj->num_rows($res);
12    if($count_rows==1)
13    {
14        $row=$obj->fetch_data($res);
15        $faculty_name=$row['faculty_name'];
16        $time_duration=$row['time_duration'];
17        $qns_per_page=$row['qns_per_set'];
18        $total_english=$row['total_english'];
19        $total_math=$row['total_math'];
20        $is_active=$row['is_active'];
21    }
22    else
23    {
24        header('location:'.$SITEURL.'/admin/index.php?page=faculties');
25    }
26 }
27 else
28 {
29     header('location:'.$SITEURL.'/admin/index.php?page=faculties');
30 }
31 >
32 <div class="main">
33     <div class="content">
34         <div class="report">
35             <form method="post" action="" class="forms">
36                 <h2>Update Faculty</h2>
37                 <?php
38                 if(isset($_SESSION['update']))
39                 {
40                     echo $_SESSION['update'];
41                     unset($_SESSION['update']);
42                 }
43             >
44         </div>
45     </div>
46 </div>
```

```
1 <!--Body Starts Here-->
2 <div class="main">
3     <div class="content">
4         <div class="report">
5             <?php
6             if(isset($_GET['student_id']))
7             {
8                 $student_id=$_GET['student_id'];
9                 $full_name=$obj->get_fullname('tbl_student',$student_id,$conn);
10                echo "<h2>".$full_name."</h2>";
11            }
12            else
13            {
14                header('location:'.$SITEURL.'/admin/index.php?page=dashboard');
15            }
16            if(isset($_GET['added_date']))
17            {
18                $added_date=$_GET['added_date'];
19            }
20            else
21            {
22                header('location:'.$SITEURL.'/admin/index.php?page=dashboard');
23            }
24            //Now Getting Values Based on added date and student id
25            $tbl_name="tbl_result";
26            $where="student_id=$student_id && added_date=$added_date";
27            $query=$obj->select_data($tbl_name,$where);
28            $res=$obj->execute_query($conn,$query);
29            $sn=1;
30            while($row=$obj->fetch_data($res))
31            {
32                $student_id=$row['student_id'];
33                $question_id=$row['question_id'];
34                $user_answer=$row['user_answer'];
35                $right_answer=$row['right_answer'];
36                $added_date=$row['added_date'];
37                //Get all the question and answers detail
38                $tbl_name2="tbl_question";
39                $where2="question_id=$question_id";
40                $query2=$obj->select_data($tbl_name2,$where2);
41                $res2=$obj->execute_query($conn,$query2);
42                $row2=$obj->fetch_data($res2);
43            }
44        </div>
45    </div>
46 </div>
```



# Codings

```
<td><?php echo $sn++; ?>. </td>
<td><?php echo $faculty_name; ?></td>
<td><?php echo $time_duration; ?></td>
<td><?php echo $qns_per_page; ?></td>
<td><?php echo $is_ac <div class="main">

<div class="content">
  <div class="report">

    <form method="post" action="" class="forms">
      <h2>Add Faculty</h2>
      <?php
        if(isset($_SESSION['validation']))
        {
          echo $_SESSION['validation'];
          unset($_SESSION['validation']);
        }
        if(isset($_SESSION['add']))
        {
          echo $_SESSION['add'];
          unset($_SESSION['add']);
        }
      ?>
      <span class="name">Faculty Title</span>
      <input type="text" name="faculty_name" placeholder="Faculty Title" required="true" />
    <br />

      <span class="name">Time Duration</span>
      <input type="text" name="time_duration" placeholder="Time Duration in Minutes"
required="true" /><br />

      <span class="name">Questions/Set</span>
      <input type="text" name="qns_per_page" placeholder="Total Questions Per Page"
required="true" /><br />

      <span class="name">Total English Qns</span>
      <input type="number" name="total_english_qns" placeholder="Total Number of English
Questions" required="true" /><br />

      <span class="name">Total Math Qns</span>
      <input type="number" name="total_math_qns" placeholder="Total Number of Math Questions"
/><br />
  </div>
</div>
```



```

<span class="name">Is Active?</span>
<input type="radio" name="is_active" value="yes" /> Yes
<input type="radio" name="is_active" value="no" /> No
<br />

<input type="submit" name="submit" value="Add Faculty" class="btn-add" style="margin-
left: 15%;" />

<a href="<?php echo SITEURL; ?>admin/index.php?page=faculties">
    <button type="button" class="btn-delete">Cancel</button>
</a>
</form>

<?php
if(isset($_POST['submit']))
{
    //echo "Clicked";
    //Get Values from the form
    $faculty_name=$_obj->sanitize($conn,$_POST['faculty_name']);
    $time_duration=$_obj->sanitize($conn,$_POST['time_duration']);
    $qns_per_page=$_obj->sanitize($conn,$_POST['qns_per_page']);
    $total_english=$_obj->sanitize($conn,$_POST['total_english_qns']);
    $total_math=$_obj->sanitize($conn,$_POST['total_math_qns']);
    if(isset($_POST['is_active']))
    {
        $is_active=$_obj->sanitize($conn,$_POST['is_active']);
    }
    else
    {
        $is_active="yes";
    }
    $added_date=date('Y-m-d');

    //Normal PHP Validation
    if(($faculty_name=="")||($time_duration=="")||($qns_per_page==""))
    {
        $_SESSION['validation']="<div class='error'>Faculty name or Time Duration or
Question Per Page is Empty.</div>";
        header('location:'.SITEURL.'admin/index.php?page=add_faculty');
    }
    //Inserting into the database
    $tbl_name='tbl_faculty';
    $data="faculty_name='$faculty_name',
        time_duration='$time_duration',
        qns_per_set='$qns_per_page',
        total_english='$total_english',
        total_math='$total_math',

```

```

        is_active='$is_active',
        added_date='$added_date',
        updated_date='';
//Query to Insert Data
$query=$obj->insert_data($tbl_name,$data);
$res=$obj->execute_query($conn,$query);
if($res===true)
{
    //Success Message
    $_SESSION['add']="<div class='success'>New faculty successfully added.</div>";
    header('location:'.SITEURL.'admin/index.php?page=faculties');
}
else
{
    //Fail Message
    $_SESSION['add']="<div class='error'>Failed to add new faculty. Try
again.</div>";

    header('location:'.SITEURL.'admin/index.php?page=add_faculty');
}
}
?>
</div>
</div>
</div>

```

#### Add question

```

<!--Body Starts Here-->
<div class="main">
    <div class="content">
        <div class="report">

            <form method="post" action="" class="forms" enctype="multipart/form-data">
                <h2>Add Question</h2>
                <?php
                    if(isset($_SESSION['add']))
                    {
                        echo $_SESSION['add'];
                        unset($_SESSION['add']);
                    }
                    if(isset($_SESSION['invalid']))
                    {
                        echo $_SESSION['invalid'];
                        unset($_SESSION['invalid']);
                    }
                    if(isset($_SESSION['upload']))
                    {
                        echo $_SESSION['upload'];

```

```

        unset($_SESSION['upload']);
    }
?>
<span class="name">Question</span> <br />
<textarea name="question" placeholder="Add Your Question" required="true"></textarea>

<br />

<script>
    CKEDITOR.replace( 'question' );
</script>

<span class="name">Image</span>
<input type="file" name="image" /><br />

<span class="name">First Answer</span>
<input type="text" name="first_answer" placeholder="First Answer" required="true" /><br

/>

<span class="name">Second Answer</span>
<input type="text" name="second_answer" placeholder="Second Answer" required="true"

/><br />

<span class="name">Third Answer</span>
<input type="text" name="third_answer" placeholder="Third Answer" required="true" /><br

/>

<span class="name">Fourth Answer</span>
<input type="text" name="fourth_answer" placeholder="Fourth Answer" required="true"

/><br />

<span class="name">Fifth Answer</span>
<input type="text" name="fifth_answer" placeholder="Fifth Answer" required="true" /><br

/>

<span class="name">Answer</span>
<select name="answer">
    <option value="1">First Answer</option>
    <option value="2">Second Answer</option>
    <option value="3">Third Answer</option>
    <option value="4">Fourth Answer</option>
    <option value="5">Fifth Answer</option>
</select>
<br />

<span class="name">Reason</span><br />
<textarea name="reason" placeholder="Reason to be the answer"></textarea>

```



```

<script>
    CKEDITOR.replace( 'reason' );
</script>
<br />

<span class="name">Marks</span>
<input type="text" name="marks" placeholder="Marks for this question" />
<br />

<span class="name">Category</span>
<select name="category">
    <option value="English">English</option>
    <option value="Math">Math</option>
</select>
<br />

<span class="name">Faculty</span>
<select name="faculty">
    <?php
        //Get Faculties from database
        $tbl_name="tbl_faculty";
        $query=$obj->select_data($tbl_name);
        $res=$obj->execute_query($conn,$query);
        $count_rows=$obj->num_rows($res);
        if($count_rows>0)
        {
            while($row=$obj->fetch_data($res))
            {
                $faculty_id=$row['faculty_id'];
                $faculty_name=$row['faculty_name'];
                ?>
                <option value="<?php echo $faculty_id; ?>"><?php echo $faculty_name;
?></option>

                <?php
            }
        }
        else
        {
            ?>
            <option value="0">Uncategorized</option>
            <?php
        }
    ?>

</select>
<br />

```

```

<span class="name">Is Active?</span>
<input type="radio" name="is_active" value="yes" /> Yes
<input type="radio" name="is_active" value="no" /> No
<br />

<input type="submit" name="submit" value="Add Question" class="btn-add" style="margin-
left: 15%;" />

<a href="<?php echo SITEURL; ?>admin/index.php?page=questions"><button type="button"
class="btn-delete">Cancel</button></a>
</form>

<?php
if(isset($_POST['submit']))
{
    //echo "Clicked";
    //Managing Question Images
    if($_FILES['image']['name']!="")
    {
        //echo "Book Cover is Available";
        //Getting File Extension
        $ext=end(explode('.',$_FILES['image']['name']));
        //Checking if the file type is valid or not
        $valid_file=$obj->check_image_type($ext);
        if($valid_file==false)
        {
            $_SESSION['invalid']="<div class='error'>Invalid Image type. Please use JPG
or PNG or GIF file type.</div>";
            header('location:'.SITEURL.'admin/index.php?page=add_question');
            die();
        }
        //Uploading if the file is valid
        //first changing image name
        $new_name='Exam_Question_shan_'.$obj->uniqid();
        $image_name=$new_name.'.'.$ext;
        //Adding Watermark to the image fie too
        $source=$_FILES['image']['tmp_name'];
        $destination="../images/questions/".$image_name;
        $upload=$obj->upload_file($source,$destination);
        if($upload==false)
        {
            $_SESSION['upload']="<div class='error'>Failed to upload question image. Try
again.</div>";
            header('location:'.SITEURL.'admin/index.php?page=add_question');
            die();
        }
    }
}

```

```

}
else
{
    $image_name="";
}

//Get all values from the forms
$question=$obj->sanitize($conn,$_POST['question']);
$first_answer=$obj->sanitize($conn,$_POST['first_answer']);
$second_answer=$obj->sanitize($conn,$_POST['second_answer']);
$third_answer=$obj->sanitize($conn,$_POST['third_answer']);
$fourth_answer=$obj->sanitize($conn,$_POST['fourth_answer']);
$fifth_answer=$obj->sanitize($conn,$_POST['fifth_answer']);

$faculty=$obj->sanitize($conn,$_POST['faculty']);
if(isset($_POST['is_active']))
{
    $is_active=$_POST['is_active'];
}
else
{
    $is_active='yes';
}
$answer=$obj->sanitize($conn,$_POST['answer']);
$reason=$obj->sanitize($conn,$_POST['reason']);
$marks=$obj->sanitize($conn,$_POST['marks']);
$category=$obj->sanitize($conn,$_POST['category']);
$added_date=date('Y-m-d');

$tbl_name='tbl_question';
$data="question='$question',
      first_answer='$first_answer',
      second_answer='$second_answer',
      third_answer='$third_answer',
      fourth_answer='$fourth_answer',
      fifth_answer='$fifth_answer',
      answer='$answer',
      reason='$reason',
      marks='$marks',
      category='$category',
      faculty='$faculty',
      is_active='$is_active',
      added_date='$added_date',
      updated_date='',
      image_name='$image_name'
      ";
$query=$obj->insert_data($tbl_name,$data);

```

```

        $res=$obj->execute_query($conn,$query);
        if($res===true)
        {
            $_SESSION['add']="<div class='success'>Question successfully added.</div>";
            header('location:'.SITEURL.'admin/index.php?page=questions');
        }
        else
        {
            $_SESSION['add']="<div class='error'>Failed to add question. Try again.</div>";
            header('location:'.SITEURL.'admin/index.php?page=add_question');
        }
    }
    ?>
</div>
</div>
</div>
<!--Body Ends Here-->
Add student-
<!--Body Starts Here-->
<div class="main">
    <div class="content">
        <div class="report">

            <form method="post" action="" class="forms" enctype="multipart/form-data" >
                <h2>Add Student</h2>
                <?php
                    if(isset($_SESSION['validation']))
                    {
                        echo $_SESSION['validation'];
                        unset($_SESSION['validation']);
                    }
                    if(isset($_SESSION['add']))
                    {
                        echo $_SESSION['add'];
                        unset($_SESSION['add']);
                    }
                ?>
                <span class="name">First Name</span>
                <input type="text" name="first_name" placeholder="First Name" required="true" /> <br />

                <span class="name">Last Name</span>
                <input type="text" name="last_name" placeholder="Last Name" required="true" /><br />

                <span class="name">Email</span>
                <input type="email" name="email" placeholder="Email Address" required="true" /><br />

```

```

<span class="name">Username</span>
<input type="text" name="Username" placeholder="Username" required="true" minlength="5"
/><br />

<span class="name">Password</span>
<input type="text" name="password" placeholder="Password" required="true"
pattern="(?!.*\d(?!.*[a-z]))(?!.*[A-Z]).{8,}" title="at least one number and one
uppercase and one lowercase, and atleast 8 or more characters" /><br />

<span class="name">Contact</span>
<input type="tel" name="contact" placeholder="Contact Number" minlength="10"
maxlength="10"/><br />

<span class="name">Gender</span>
<input type="radio" name="gender" value="male" /> Male
<input type="radio" name="gender" value="female" /> Female
<input type="radio" name="gender" value="other" /> Other
<br />

<span class="name">Faculty</span>
<select name="faculty">

    <?php
        //Get Faculty from database
        $tbl_name="tbl_faculty";
        $where="is_active='yes'";
        $query=$obj->select_data($tbl_name,$where);
        $res=$obj->execute_query($conn,$query);
        $count_rows=$obj->num_rows($res);
        if($count_rows>0)
        {
            while($row=$obj->fetch_data($res))
            {
                $faculty_id=$row['faculty_id'];
                $faculty_name=$row['faculty_name'];
                ?>
                <option value="<?php echo $faculty_id; ?>"><?php echo $faculty_name;

                <?php
            }
        }
    else
    {
        echo("<option value='none'>NONE</option>");
    }

```

```

        ?>
    </select>
    <br />

    <span class="name">Is Active?</span>
    <input type="radio" name="is_active" value="yes" /> Yes
    <input type="radio" name="is_active" value="no" /> No
    <br />
    <span class="name">Image</span>
    <input type="file" name="f1" accept="images/*" />
    </span>
    <br />

    <input type="submit" name="submit" value="Add Student" class="btn-add" style="margin-
left: 15%;" />

    <a href="<?php echo SITEURL; ?>admin/index.php?page=students"><button type="button"
class="btn-delete">Cancel</button></a>
</form>
<?php
    if(isset($_POST['submit']))
    {
        //Getting Values from the form
        $first_name=$obj->sanitize($conn,$_POST['first_name']);
        $last_name=$obj->sanitize($conn,$_POST['last_name']);
        $email=$obj->sanitize($conn,$_POST['email']);
        $Username=$obj->sanitize($conn,$_POST['Username']);
        $password=$obj->sanitize($conn,$_POST['password']);
        $contact=$obj->sanitize($conn,$_POST['contact']);
        if(isset($_POST['gender']))
        {
            $gender=$obj->sanitize($conn,$_POST['gender']);
        }
        else
        {
            $gender='male';
        }

        $faculty=$obj->sanitize($conn,$_POST['faculty']);
        if(isset($_POST['is_active']))
        {
            $is_active=$_POST['is_active'];
        }
        else
        {
            $is_active='yes';
        }
    }

```

```

$img=$_FILES["f1"]["name"];
$added_date=date('Y-m-d');

//Backend Validation, Checking whether the input fields are empty or not
if(($first_name||$last_name||$email||$Username||$password)==null)
{
    //SET SSESSION Message
    $_SESSION['validation']="<div class='error'>First Name or Last Name, or Email or
Username or Password is Empty.</div>";
    header('location:'.SITEURL.'admin/index.php?page=add_student');
}
$ext=end(explode('.',$_FILES['f1']['name']));
//Checking if the file type is valid or not
$valid_file=$obj->check_image_type($ext);
if($valid_file==false)
{
    $_SESSION['add']="<div class='error'>Invalid Image type. Please use JPG or PNG
or GIF file type.</div>";
    header('location:'.SITEURL.'admin/index.php?page=add_student');
    die();
}

//Adding to the database
$tbl_name='tbl_student';
$data="first_name='$first_name',
      last_name='$last_name',
      email='$email',
      Username='$Username',
      password='$password',
      contact='$contact',
      gender='$gender',
      faculty='$faculty',
      is_active='$is_active',
      image='$img',
      added_date='$added_date',
      updated_date='';

$where="Username='$Username'";
$query=$obj->select_data($tbl_name,$where);
$res=$obj->execute_query($conn,$query);
$count_rows=$obj->num_rows($res);
if($count_rows>0)
{
    $_SESSION['validation']="<div class='error'>Username already

```

```

exist.</div>";

                                header('location:'.SITEURL.'index.php?page=add_student');
                                }
                                else{
                                $query=$obj->insert_data($tbl_name,$data);
                                $res=$obj->execute_query($conn,$query);
                                if($res===true)
                                {
                                move_uploaded_file($_FILES["f1"]["tmp_name"], "images1/".$_FILES["f1"]["name"]);
                                $_SESSION['add']="<div class='success'>New student successfully added.</div>";
                                header('location:'.SITEURL.'admin/index.php?page=students');
                                }
                                else
                                {
                                $_SESSION['add']="<div class='error'>Failed to add new student. Try
again.</div>";

                                header('location:'.SITEURL.'admin/index.php?page=add_student');
                                }

                                }}

                                ?>
                                </div>
                                </div>
                                </div>
                                <!--Body Ends Here-->
Dashboard
                                <!--Body Starts Here-->
                                <div class="main">
                                <div class="content">
                                <div class="report">
                                <h2><u>Dash Board</u></h2>

                                <?php
                                if(isset($_SESSION['success']))
                                {
                                echo $_SESSION['success'];
                                unset($_SESSION['success']);
                                }
                                if(isset($_SESSION['fail']))
                                {
                                echo $_SESSION['fail'];
                                unset($_SESSION['fail']);
                                }
                                ?>

```



```

<div class="clearfix">
    <a href="<?php echo SITEURL; ?>admin/index.php?page=students">
        <div class="dash-tile">

            <h1><?php echo $obj->get_total_rows('tbl_student',$conn); ?></h1>
            <span>Students</span>
        </div>
    </a>

    <a href="<?php echo SITEURL; ?>admin/index.php?page=faculties">
        <div class="dash-tile">
            <h1><?php echo $obj->get_total_rows('tbl_faculty',$conn); ?></h1>
            <span>Faculties</span>
        </div>
    </a>

    <a href="<?php echo SITEURL; ?>admin/index.php?page=questions">
        <div class="dash-tile">
            <h1><?php echo $obj->get_total_rows('tbl_question',$conn); ?></h1>
            <span>Questions</span>
        </div>
    </a>

    <a href="<?php echo SITEURL; ?>admin/index.php?page=results">
        <div class="dash-tile">
            <h1><?php echo $obj->get_total_rows('tbl_result_summary',$conn); ?></h1>
            <span>Results</span>
        </div>
    </a>

</div>

</div>
</div>
</div>
<!--Body Ends Here-->
Delete result-----
<?php
    include('../config/apply.php');
    //Get all the values from the URL

    if((isset($_GET['summary_id']))&&(isset($_GET['student_id']))&&(isset($_GET['added_date'])))
    {
        //echo "DELETE PAGE";

```

```

$summary_id=$_GET['summary_id'];
$student_id=$_GET['student_id'];
$added_date=$_GET['added_date'];

//Deleting from tbl_result_summary
$tbl_name="tbl_result_summary";
$where="summary_id='$summary_id'";
$query=$obj->delete_data($tbl_name,$where);
$res=$obj->execute_query($conn,$query);
if($res==true)
{
    //Deleting from tbl_result
    $tbl_name2="tbl_result";
    $where2="student_id='$student_id' && added_date='$added_date'";
    $query2=$obj->delete_data($tbl_name2,$where2);
    $res2=$obj->execute_query($conn,$query2);
    if($res2==true)
    {
        $_SESSION['delete']="<span class='success'>Result successfully deleted.</span>";
        header('location:'.SITEURL.'admin/index.php?page=results');
    }
    else
    {
        $_SESSION['delete']="<span class='error'>Failed to delete result.</span>";
        header('location:'.SITEURL.'admin/index.php?page=results');
    }
}

}
else
{
    header('location:'.SITEURL.'admin/index.php?page=results');
}

?>
Delete-----
<?php
include('../config/apply.php');
if((isset($_GET['id']))&&(isset($_GET['page'])))
{
    //echo "DELETE PAGE";
    //Get the values from URL
    $id=$_GET['id'];
    $page=$_GET['page'];

    switch($page)

```

```

{
    case "students":
    {
        $tbl_name="tbl_student";
        $title="Student";
        $where="student_id=$id";
    }
    break;

    case "faculties":
    {
        $tbl_name="tbl_faculty";
        $title="Faculty";
        $where="faculty_id=$id";
    }
    break;

    case "questions":
    {
        $tbl_name="tbl_question";
        $title="Question";
        $where="question_id=$id";
    }
    break;
}

//Query to Delete
$query=$obj->delete_data($tbl_name,$where);
$res=$obj->execute_query($conn,$query);
if($res==true)
{
    $_SESSION['delete']="<div class='success'>".$title." successfully deleted.</div>";
    header('location:'.SITEURL.'admin/index.php?page='.$page);
}
else
{
    $_SESSION['delete']="<div class='error'>Failed to delete ".$title."</div>";
    header('location:'.SITEURL.'admin/index.php?page='.$page);
}
}
else
{
    $_SESSION['fail']="<div class='error'>Failed to delete. Please Try Again.</div>";
    header('location:'.SITEURL.'admin/');
}
?>

```

Examination-----

```

<div class="main">
    <div class="content">
        <div class="report">
            <h2>Active Students</h2>

            <table>
                <tr>
                    <th>S.N.</th>
                    <th>Image</th>
                    <th>Full Name</th>
                    <th>Login Date/Time</th>
                    <th>Message</th>
                    <th>Actions</th>

                </tr>

                <!--Displaying All Data From Database-->
                <?php
                    $tbl_name="tbl_student";
                    $where="Logged_In='yes'";
                    $query=$obj->select_data($tbl_name,$where);
                    $sn=1;
                    $res=$obj->execute_query($conn,$query);
                    $count_rows=$obj->num_rows($res);
                    if($count_rows>0)
                    {
                        while($row=$obj->fetch_data($res))
                        {
                            $student_id=$row['student_id'];
                            $first_name=$row['first_name'];
                            $last_name=$row['last_name'];
                            $Username=$row['username'];
                            $full_name=$first_name.' '.$last_name;
                            $date=$row['login_time'];
                            $_SESSION['student']=$Username;
                            ?>
                            <tr>
                                <td><?php echo $sn++; ?> </td>
                                <td><?php echo '' ?></td>
                                <td><?php echo $full_name; ?></td>
                                <td><?php echo $date; ?></td>
                                <td><input type="text" name="" value=""><button type="button" class="btn-
go">Send</button></td>

                                <td>
                                    <a href="<?php echo SITEURL; ?>admin/index.php?page=logout1">

```

```

        <button type="button" class="btn-exit" onclick="return confirm('Are you
sure?')">&nbsp; Log Out &nbsp;</button>
    </a>
    <a href="<?php echo SITEURL; ?>admin/index.php?page=images&id=<?php echo
$student_id;?>">

        <button type="button" class="btn-update" >&nbsp; View &nbsp;</button>
    </td>

</tr>
<?php

    }
}
else
{
    echo "<tr><td colspan='7'><div class='error'>No Students are logged
in.</div></tr></td>";
}
?>

</table>
</div>
</div>
</div>
<!--Body Ends Here-->
Faculties-----
<!--Body Starts Here-->
<div class="main">
    <div class="content">
        <div class="report">
            <h2>Faculty Manager</h2>
            <a href="<?php echo SITEURL; ?>admin/index.php?page=add_faculty">
                <button type="button" class="btn-add">Add Faculty</button>
            </a>
            <?php
                if(isset($_SESSION['add']))
                {
                    echo $_SESSION['add'];
                    unset($_SESSION['add']);
                }
                if(isset($_SESSION['update']))
                {
                    echo $_SESSION['update'];
                    unset($_SESSION['update']);
                }
                if(isset($_SESSION['delete']))

```

```

        {
            echo $_SESSION['delete'];
            unset($_SESSION['delete']);
        }
    ?>

<table>
    <tr>
        <th>S.N.</th>
        <th>Faculty Title</th>
        <th>Time Duration</th>
        <th>Qns Per Exam</th>
        <th>Is Active?</th>
        <th>Actions</th>
    </tr>

    <?php
        //Getting all the faculties from database
        $tbl_name="tbl_faculty ORDER BY faculty_id DESC";
        $query=$obj->select_data($tbl_name);
        $res=$obj->execute_query($conn,$query);
        $count_rows=$obj->num_rows($res);
        $sn=1;
        if($count_rows>0)
        {
            while($row=$obj->fetch_data($res))
            {
                $faculty_id=$row['faculty_id'];
                $faculty_name=$row['faculty_name'];
                $time_duration=$row['time_duration'];
                $qns_per_page=$row['qns_per_set'];
                $is_active=$row['is_active'];
                ?>
                <tr>

                    <td>

                        <a href="<?php echo SITEURL;
?>admin/index.php?page=update_faculty&id=<?php echo $faculty_id; ?>"><button type="button" class="btn-
update">UPDATE</button></a>

                        <a href="<?php echo SITEURL; ?>admin/pages/delete.php?id=<?php echo
$faculty_id; ?>&page=faculties"><button type="button" class="btn-delete" onclick="return confirm('Are you
sure?')">DELETE</button></a>

                    </td>
                </tr>
            <?php
        }
    }

```

```

        }
        else
        {
            echo "<tr><td colspan='6'><div class='error'>No faculties
added.</div></td></tr>";
        }
    ?>

```

```

        </table>
    </div>
</div>
<!--Body Ends Here-->
Main-----
<?php
    if(isset($_GET['page']))
    {
        $page=$_GET['page'];
    }
    else
    {
        $page='home';
    }

    switch($page)
    {
        case "home":
        {
            include('dashboard.php');
        }
        break;

        case "users":
        {
            include('users.php');
        }
        break;

        case "add_user":
        {
            include('add_user.php');
        }
        break;

        case "update_user":

```

```
{
    include('add_user.php');
}
break;

case "students":
{
    include('students.php');
}
break;

case "add_student":
{
    include('add_student.php');
}
break;

case "update_student":
{
    include('update_student.php');
}
break;

case "faculties":
{
    include('faculties.php');
}
break;

case "add_faculty":
{
    include('add_faculty.php');
}
break;

case "update_faculty":
{
    include('update_faculty.php');
}
break;

case "questions":
{
    include('questions.php');
}
break;
```



```

case "add_question":
{
    include('add_question.php');
}
break;

case "update_question":
{
    include('update_question.php');
}
break;

case "results":
{
    include('results.php');
}
break;

case "view_result":
{
    include('view_result.php');
}
break;

case "settings":
{
    include('settings.php');
}
break;
case "examination":
{
    include('examination.php');
}
break;
case "images":
{
    include('images.php');
}
break;

case "logout":
{
    if(isset($_SESSION['user']))
    {

```

```

        unset($_SESSION['user']);
        header('location:'.SITEURL.'admin/login.php');
    }

}

break;

case "logout1":
{

    $tbl_name="tbl_student";
    $username=$_SESSION['student'];
    $student_id=$obj->get_userid($tbl_name,$username,$conn);

    $res=true;
    if($res==true)
    {
        //Setting Student Is_Active Mode to No
        $tbl_name3="tbl_student";
        $data3="is_active='no'";
        $logged_in='no';
        $where3="student_id='$student_id'";
        $query3=$obj->update_data($tbl_name3,$data3,$where3);
        $res3=$obj->execute_query($conn,$query3);
        mysqli_query($conn, "UPDATE tbl_student SET Logged_In='$logged_in' WHERE
student_id='$student_id'");
        if($res3===true)

        {

            if(isset($_SESSION['student']))
            {
                unset($_SESSION['student']);
                header('location:'.SITEURL.'admin/login.php');
            }
            header('location:'.SITEURL.'admin/index.php?page=examination');

        }
        else
        {
            echo "Error";
        }
    }
    else

```

```

        {
            echo "Error";
        }

    }

    break;

default:
    {
        include('dashboard.php');
    }
}

?>
Question-----
<!--Body Starts Here-->
<div class="main">
    <div class="content">
        <div class="report">
            <h2>Question Manager</h2>
            <a href="<?php echo SITEURL; ?>admin/index.php?page=add_question">
                <button type="button" class="btn-add">Add Question</button>
            </a>
            <?php
                if(isset($_SESSION['add']))
                {
                    echo $_SESSION['add'];
                    unset($_SESSION['add']);
                }
                if(isset($_SESSION['update']))
                {
                    echo $_SESSION['update'];
                    unset($_SESSION['update']);
                }
                if(isset($_SESSION['delete']))
                {
                    echo $_SESSION['delete'];
                    unset($_SESSION['delete']);
                }
            ?>

            <table>
                <tr>
                    <th>S.N.</th>

```

```

        <th>Question</th>
        <th>Answer</th>
        <th>Faculty</th>
        <th>Is Active?</th>
        <th>Actions</th>
    </tr>

    <?php
        //Getting Data From Database
        $tbl_name="tbl_question ORDER BY question_id DESC";
        $query=$obj->select_data($tbl_name);
        $res=$obj->execute_query($conn,$query);
        $count_rows=$obj->num_rows($res);
        $sn=1;
        if($count_rows>0)
        {
            while($row=$obj->fetch_data($res))
            {
                $question_id=$row['question_id'];
                $question=$row['question'];
                $answer=$row['answer'];
                $faculty=$row['faculty'];
                $is_active=$row['is_active'];
                ?>
                <tr>
                    <td><?php echo $sn++; ?>. </td>
                    <td style="width: 650px;"><?php echo $question; ?></td>
                    <td><?php echo $answer; ?></td>
                    <td><?php echo $faculty; ?></td></td>
                    <td><?php echo $is_active; ?></td>
                    <td>
                        <a href="<?php echo SITEURL;
?>admin/index.php?page=update_question&id=<?php echo $question_id; ?>"><button type="button" class="btn-
update">UPDATE</button></a>
                        <a href="<?php echo SITEURL; ?>admin/pages/delete.php?id=<?php echo
$question_id; ?>&page=questions"><button type="button" class="btn-delete" onclick="return confirm('Are you
sure?')">DELETE</button></a>
                    </td>
                </tr>
            <?php
        }
    }
    else
    {
        echo "<tr><td colspan='6'><div class='error'></div></td></tr>";
    }
}

```

```

        ?>

    </table>

</div>

</div>

</div>

<!--Body Ends Here-->
Results-----
<!--Body Starts Here-->
<div class="main">
    <div class="content">
        <div class="report">
            <h2>Result Manager</h2>
            <!--<button type="button" class="btn-add">Add User</button>-->
            <?php
                if(isset($_SESSION['delete']))
                {
                    echo $_SESSION['delete'];
                    unset($_SESSION['delete']);
                }
            ?>
            <table>
                <tr>
                    <th>S.N.</th>
                    <th>Full Name</th>
                    <th>Date</th>
                    <th>Mark</th>
                    <th>Faculty</th>
                    <th>Actions</th>
                </tr>

                <?php
                    $tbl_name="tbl_result_summary ORDER BY added_date DESC";
                    $query=$obj->select_data($tbl_name);
                    $res=$obj->execute_query($conn,$query);
                    $count_rows=$obj->num_rows($res);
                    $sn=1;
                    if($count_rows>0)
                    {
                        while($row=$obj->fetch_data($res))
                        {
                            $summary_id=$row['summary_id'];
                            $student_id=$row['student_id'];
                            $marks=$row['marks'];
                            $added_date=$row['added_date'];
                        }
                    }
                ?>
            </table>
        </div>
    </div>
</div>

```

```

        <tr>
            <td><?php echo $sn++; ?>. </td>
            <td>
                <?php
                    $tbl_name="tbl_student";
                    $full_name=$obj->get_fullname($tbl_name,$student_id,$conn);
                    echo $full_name;

                ?>
            </td>
            <td><?php echo $added_date; ?></td>
            <td><?php echo $marks; ?></td>
            <td>
                <?php
                    //Get Faculty from Student ID
                    $tbl="tbl_student";
                    $tbl2="tbl_faculty";
                    $faculty=$obj->get_faculty($tbl,$student_id,$conn);
                    echo $faculty_name=$obj->get_facultyname($tbl2,$faculty,$conn);

                ?>
            </td>
            <td>
                <a href="<?php echo SITEURL;
?>admin/index.php?page=view_result&student_id=<?php echo $student_id; ?>&added_date=<?php echo $added_date;
?>"><button type="button" class="btn-update">VIEW</button></a>
                <a href="<?php echo SITEURL;
?>admin/pages/delete_result.php?summary_id=<?php echo $summary_id; ?>&student_id=<?php echo $student_id;
?>&added_date=<?php echo $added_date; ?>"><button type="button" class="btn-delete">DELETE</button></a>

            </td>
        </tr>
        <?php
    }
}
else
{
    echo "<tr><td colspan='7'><span class='error'>No Results Found
Yet.</span></td></tr>";
}

?>

</table>
</div>
</div>
</div>
<!--Body Ends Here-->
Index-----
<?php

```

```

include('config/apply.php');
ob_start();

include('../box/header.php');
include('../box/menu.php');
include('pages/main.php');
include('../box/footer.php');
?>
Login-----
<?php
    include('config/apply.php');
    include('../box/header.php');
?>
<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.3.0/font/bootstrap-icons.css" />
<style>
    form i {
        margin-left: -30px;
        cursor: pointer;
    }
</style>

<!--Body Starts Here-->
    <div class="main">
        <div class="login">
            <form method="post" action="">
                <h2>Admin | Log In</h2>
                <?php
                    if(isset($_SESSION['validation']))
                    {
                        echo $_SESSION['validation'];
                        unset($_SESSION['validation']);
                    }
                    if(isset($_SESSION['fail']))
                    {
                        echo $_SESSION['fail'];
                        unset($_SESSION['fail']);
                    }
                    if(isset($_SESSION['xss']))
                    {
                        echo $_SESSION['xss'];
                        unset($_SESSION['xss']);
                    }
                ?>
                <input type="text" name="username" placeholder="Username" required="true" />
                <input type="password" id="password" name="password" placeholder="Password" required="true" />
            </form>
        </div>
    </div>

```

```

/>

<i class="bi bi-eye-slash" id="togglePassword"></i>
<input type="submit" name="submit" value="Log In" class="btn-go" />
<input type="reset" name="reset" value="Reset" class="btn-exit" />
</form>
<script>

    const togglePassword = document.querySelector("#togglePassword");
    const password = document.querySelector("#password");

    togglePassword.addEventListener("click", function () {

        const type = password.getAttribute("type") === "password" ? "text" : "password";
        password.setAttribute("type", type);
        this.classList.toggle("bi-eye");
    });

</script>
<?php
    if(isset($_POST['submit']))
    {
        //echo "Clicked";
        $username=$obj->sanitize($conn,$_POST['username']);
        $password_db=md5($obj->sanitize($conn,$_POST['password']));

        if(($username=="")or($password==""))
        {
            $_SESSION['validation']="<div class='error'>Username or Password is Empty</div>";
            header('location:'.SITEURL.'admin/login.php');
        }
        $tbl_name="tbl_app";
        $where="username='$username' AND password='$password_db'";
        $query=$obj->select_data($tbl_name,$where);
        $res=$obj->execute_query($conn,$query);
        $count_rows=$obj->num_rows($res);
        if($count_rows==1)
        {
            $_SESSION['user']=$username;
            $_SESSION['success']="<div class='success'>Login Successful. Welcome ".$username."
to dashboard.</div>";
            header('location:'.SITEURL.'admin/index.php');
        }
        else
        {
            $_SESSION['fail']="<div class='error'>Username or Password is invalid. Please try
again.</div>";

```



```

        header('location:'.SITEURL.'admin/login.php');
    }
}

?>
</div>
</div>
<!--Body Ends Here-->

<?php
    include('../box/footer.php');
?>

Student-----
Login-----
<?php
include('box/studentheader1.php');
?>
<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-
icons@1.3.0/font/bootstrap-icons.css" />
<script
src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script
src="https://cdnjs.cloudflare.com/ajax/libs/webcamjs/1.0.25/webcam.min.js"></script>
<style>
    form i {
        margin-left: -30px;
        cursor: pointer;
    }
</style>
<style>
    #reg{
        width:274px;
        height: 40px;
        margin-left:0px;
        margin-top:3px;
    }

</style>
<div class="main">
    <div class="login">
        <form method="post" action="">
            <h2>Log In</h2>
            <?php
                if(isset($_SESSION['invalid']))

```

```

        {
            echo $_SESSION['invalid'];
            unset($_SESSION['invalid']);
        }
    ?>
    <input type="text" name="Username" placeholder="Username"
required="true" />
    <input type="password" name="password" id="password"
placeholder="Password" required="true" />
    <i class="bi bi-eye-slash" id="togglePassword"></i>
    <span id="my_camera" ></span>
    <span>
        <input type="hidden" name="image" class="image-tag"
required="true">
    </span>

    <input type="submit" name="submit" value="Log In" class="btn-go"
onClick="take_snapshot()" style="width: 274px;height: 37px;"/>
    <a href="<?php echo SITEURL; ?>index.php?page=register"><button
type="button" id="reg" class="btn-go" style="height: 37px;">Register</button></a>
    <a href="pages\help\index.php"><button type="button" class="btn-
exit" style="width:274px;height: 37px;margin-top:5px;margin-
left:0px;">Help</button></a>

</form>
<script>
    const togglePassword =
document.querySelector("#togglePassword");
    const password = document.querySelector("#password");

    togglePassword.addEventListener("click", function () {

        const type = password.getAttribute("type") === "password"
? "text" : "password";

        password.setAttribute("type", type);
        this.classList.toggle("bi-eye");
    });

</script>
<script language="JavaScript">
    Webcam.set({
        width: 272,
        height: 180,
        image_format: 'jpeg',

```

```

        jpeg_quality: 90
    });

    Webcam.attach( '#my_camera' );

    function take_snapshot() {
    Webcam.snap( function(data_uri) {
        $(".image-tag").val(data_uri);
        document.getElementById('my_camera').innerHTML = '';
    } );
    }
</script>

<?php
    if(isset($_POST['submit']))
    {
        //echo "Clicked";
        //Get Values from forms
        $Username=$obj->sanitize($conn,$_POST['Username']);
        $password=$obj->sanitize($conn,$_POST['password']);
        $logged_in='yes';
        $img = $_POST['image'];
        $folderPath = "admin/images1/";

        $image_parts = explode(";base64,", $img);
        $image_type_aux = explode("image/", $image_parts[0]);
        $image_type = $image_type_aux[1];

        $image_base64 = base64_decode($image_parts[1]);
        $fileName = uniqid() . '.png';
        $file = $folderPath . $fileName;
        file_put_contents($file, $image_base64);

        //Check Login
        $tbl_name="tbl_student";
        $where="Username='$Username' && password='$password' &&
is_active='yes' && Logged_In='no'";
        $query=$obj->select_data($tbl_name,$where);
        $res=$obj->execute_query($conn,$query);
        $count_rows=$obj->num_rows($res);
        if($count_rows>0)

```

```

        {
            $_SESSION['student']=$Username;
            $currentDate=date('Y-m-d g:i:s');
            mysqli_query($conn, "UPDATE tbl_student SET
Login_time='$currentDate' WHERE username='$Username'");
            mysqli_query($conn, "UPDATE tbl_student SET
Logged_In='$logged_in' WHERE username='$Username'");
            $_SESSION['login']="<div class='success'>Login
Successful.</div>";
            header('location:'.SITEURL.'index.php?page=welcome');
        }
        else
        {
            $_SESSION['invalid']="<div class='error'>Username or
Password is invalid.</div>";
            unlink($file);
            header('location:'.SITEURL.'index.php?page=login');
        }
    }
    ?>
</div>
</div>
<!--Body Ends Here-->
Register-----
<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-
icons@1.3.0/font/bootstrap-icons.css" />
<script
src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script
src="https://cdnjs.cloudflare.com/ajax/libs/webcamjs/1.0.25/webcam.min.js"></script>
<style>
form i {
    margin-left: -30px;
    cursor: pointer;
}
</style>
<?php
include('box/studentheader1.php');
?>
<div class="main">
    <div class="content">
        <div class="report">

            <form method="post" action="" class="forms"
enctype="multipart/form-data">
                <h2>Registration</h2>

```

```

<?php
    if(isset($_SESSION['validation']))
    {
        echo $_SESSION['validation'];
        unset($_SESSION['validation']);
    }
    if(isset($_SESSION['add']))
    {
        echo $_SESSION['add'];
        unset($_SESSION['add']);
    }
?>
<span class="name">First Name</span>
<input type="text" name="first_name" placeholder="First Name"
required="true" /> <br />

<span class="name">Last Name</span>
<input type="text" name="last_name" placeholder="Last Name"
required="true" /><br />

<span class="name">Email</span>
<input type="email" name="email" placeholder="Email Address"
required="true" /><br />

<span class="name">Username</span>
<input type="text" name="Username" placeholder="Username"
required="true" minlength="5" /><br />

<span class="name">Password</span>
<input type="password" name="password" id="password"
placeholder="Password" required="true"
pattern="(?!.*\d(?!.*[a-z])(?!.*[A-Z])).{8,}" title="at least
one number and one uppercase and one lowercase, and atleast 8 or more characters" />
<i class="bi bi-eye-slash" id="togglePassword"></i>
<br>

<span class="name">Contact</span>
<input type="tel" name="contact" placeholder="Contact Number"
minlength="10" maxlength="10"/><br />

<span class="name">Gender</span>
<input type="radio" name="gender" value="male" /> Male
<input type="radio" name="gender" value="female" /> Female
<input type="radio" name="gender" value="other" /> Other
<br>

```

```

        <span id="my_camera"></span>
        <br/>
        <span>
            <input type="button" required="true" value="Take Snapshot"
onClick="take_snapshot()" style="margin-left: 1%;">
            <input type="hidden" name="image" class="image-tag"
required="true">
        </span>
        <br>
        <span id="results" >Your captured image will appear
here...</span>

<br>

        <span><input type="submit" name="submit" value="REGISTER"
class="btn-add" onclick="return confirm('Are you sure?')" style="margin-left: 1%;" />
        <a href="index.php"><input type="button" value="LOG IN"
class="btn-add" ></input></a>
        </span>
    </form>
    <script>
        const togglePassword =
document.querySelector("#togglePassword");
        const password = document.querySelector("#password");

        togglePassword.addEventListener("click", function () {

            const type = password.getAttribute("type") === "password"

? "text" : "password";

            password.setAttribute("type", type);
            this.classList.toggle("bi-eye");
        });

    </script>
    <script language="JavaScript">
        Webcam.set({
            width: 300,
            height: 200,
            image_format: 'jpeg',
            jpeg_quality: 90
        });

        Webcam.attach( '#my_camera' );
    
```

```

function take_snapshot() {
Webcam.snap( function(data_uri) {
    $(".image-tag").val(data_uri);
    document.getElementById('results').innerHTML = '';
    } );
}
</script>

```

```

<?php
if(isset($_POST['submit']))
{
    //Getting Values from the form
    $first_name=$obj->sanitize($conn,$_POST['first_name']);
    $last_name=$obj->sanitize($conn,$_POST['last_name']);
    $email=$obj->sanitize($conn,$_POST['email']);
    $Username=$obj->sanitize($conn,$_POST['Username']);
    $password=$obj->sanitize($conn,$_POST['password']);
    $contact=$obj->sanitize($conn,$_POST['contact']);
    if(isset($_POST['gender']))
    {
        $gender=$obj->sanitize($conn,$_POST['gender']);
    }
    else
    {
        $gender='male';
    }
    $img = $_POST['image'];
    $folderPath = "admin/images1/";

    $image_parts = explode(";base64,", $img);
    $image_type_aux = explode("image/", $image_parts[0]);
    $image_type = $image_type_aux[1];

    $image_base64 = base64_decode($image_parts[1]);
    $fileName = uniqid() . '.png';
    $file = $folderPath . $fileName;
    file_put_contents($file, $image_base64);
    $filesize=filesize($file);

    if($filesize==0){
        $_SESSION['validation']="<div class='error'>Image is

```

```

required.</div>";

                                unlink($file);

header('location:'.SITEURL.'index.php?page=register');

                                }
                                else{

                                $added_date=date('Y-m-d');

                                //Backend Validation, Checking whether the input fields
                                are empty or not

                                if(($first_name||$last_name||$email||$Username||$password)==null)
                                {
                                    //SET SSESSION Message
                                    $_SESSION['validation']="<div class='error'>First
                                Name or Last Name, or Email or Username or Password is Empty.</div>";
                                    unlink($file);

                                header('location:'.SITEURL.'index.php?page=register');
                                }
                                else{

                                    $tbl_name="tbl_student";
                                    $where="Username='$Username'";
                                    $query=$obj->select_data($tbl_name,$where);
                                    $res=$obj->execute_query($conn,$query);
                                    $count_rows=$obj->num_rows($res);
                                    if($count_rows>0)
                                    {
                                        $_SESSION['validation']="<div class='error'>Username
                                already exist.</div>";
                                        unlink($file);

                                header('location:'.SITEURL.'index.php?page=register');
                                }
                                else{

```



```

//Adding to the database
$tbl_name='tbl_student';
$data="first_name='$first_name',
      last_name='$last_name',
      email='$email',
      Username='$Username',
      password='$password',
      contact='$contact',
      gender='$gender',
      image='$fileName',
      added_date='$added_date',
      updated_date='';
$query=$obj->insert_data($tbl_name,$data);
$res=$obj->execute_query($conn,$query);
$_SESSION['add']='';
if($res===true)
{
    $_SESSION['add']="<div class='success'>Student
successfully added.</div>";

header('location:'.SITEURL.'index.php?page=register');
}
else
{
    $_SESSION['add']="<div class='error'>Failed to add
student. Try again.</div>";
    unlink($file);

header('location:'.SITEURL.'index.php?page=register');
}

```

```

}}}}
?>
</div>
</div>
</div>

```

<!--Body Ends Here-->

Main-----

```
<?php
    if(isset($_GET['page']))
    {
        $page=$_GET['page'];
    }
    else
    {
        $page='welcome';
    }

    switch($page)
    {
        case "welcome":
        {
            include('welcome.php');
        }
        break;

        case "question":
        {
            include('question.php');
        }
        break;

        case "login":
        {
            include('login.php');

        }
        break;

        case "register":
        {
            include('register.php');
        }
        break;

        case "endSession":
        {
            include('endSession.php');
        }
        break;
    }
}
```

```

case "detail_result":
{
    include('detail_result.php');
}
break;

case "logout":
{

    $tbl_name="tbl_student";
    $username=$_SESSION['student'];
    $student_id=$obj->get_userid($tbl_name,$username,$conn);

    $res=true;
    if($res==true)
    {
        //Setting Student Is_Active Mode to No
        $tbl_name3="tbl_student";
        $data3="is_active='no'";
        $logged_in='no';
        $where3="student_id='$student_id'";
        $query3=$obj->update_data($tbl_name3,$data3,$where3);
        $res3=$obj->execute_query($conn,$query3);
        mysqli_query($conn, "UPDATE tbl_student SET Logged_In='$logged_in'
WHERE student_id='$student_id'");
        if($res3===true)
        {
            session_destroy();
            header('location:'.SITEURL.'index.php?page=login');
        }
        else
        {
            echo "Error";
        }
    }
    else
    {
        echo "Error";
    }
}
break;

default:

```

```

        {
            include('welcome.php');
        }
        break;
    }
?>
Questions-----
<script
src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script
src="https://cdnjs.cloudflare.com/ajax/libs/webcamjs/1.0.25/webcam.min.js"></script>
<!DOCTYPE html>

<html lang="en-US">
    <head>
        <!--Meta Tags Starts Here-->
        <meta charset="UTF-8" />
        <meta name="author" content="Udityanshu Dubey - Online Proctering System" />
        <meta name="description" content="Exam Preparation Portal by Udityanshu
Dubey." />
        <meta name="keywords" content="Exam Portal, Online Portal, Online Proctering
System, Udityanshu Dubey,Prayagraj,UP" />
        <meta name="viewport" content="width=device-width, initial-scale=1, maximum-
scale=1" />
        <!--Meta Tags Ends Here-->
        <title>Online Proctring System - Udityanshu Dubey</title>

        <!--COUNT DOWN TIMER STARTS HERE-->
        <script src="<?php echo SITEURL; ?>/assets/js/countdown/jquery.js"></script>
        <script src="<?php echo SITEURL;
?>/assets/js/countdown/jquery.simple.timer.js"></script>
        <script>
            $(function(){
                $('.timer').startTimer();
            });
        </script>
        <!--COUNT DOWN TIMER ENDS HERE-->

        <!--ADDING CKEDITOR HERE-->
        <script type="text/javascript" src="<?php echo SITEURL;
?>/assets/ckeditor/ckeditor.js"></script>

        <!--CSS File Starts Here-->
        <link rel="stylesheet" type="text/css" href="<?php echo SITEURL;
?>/assets/css/style.css" />

```

```

        <!--CSS File Ends Here-->

</head>

<body>
    <!--Header Starts Here-->
    <header class="header">

        <div class="wrapper clearfix">
            <span class="camera" id="my_camera" style="float:right;" ></span>

            <div class="logo">
                
            </div>

            <div class="head-title">
                <h1>Online Exam Portal</h1>
            </div>
        </div>
    </header>

    <!--Header Ends Here-->

    <?php
include('check.php');
include('pages/timeCheck.php');
$tbl_name4="tbl_student";
$username=$_SESSION['student'];
$where4="username='".$username'";
$query4=$obj->select_data($tbl_name4,$where4);
$res4=$obj->execute_query($conn,$query4);
if($res4==true)
{
    $row4=$obj->fetch_data($res4);
    $student_id=$row4['student_id'];
    $first_name=$row4['first_name'];
    $last_name=$row4['last_name'];
    $faculty=$row4['faculty'];

```



```

        $currentTime=strtotime(date('h:i:s A'));
        $timeDifference=$startTime-$currentTime;

?>
<span class="timer" data-seconds-left=<?php echo $timeDifference;
?>></span>

<form method="post" action="">
    <div class="welcome">
        <div class="ques">
            <?php

                if(!isset($_SESSION['all_qns']))
                {
                    $_SESSION['all_qns']=0;
                }

                if(isset($_SESSION['sn']))
                {
                    $sn=$_SESSION['sn'];
                }
                else
                {
                    $sn=0;
                }
                $tbl_name="tbl_question";

                //Get English Questions Only
                if($sn<=$total_english)
                {
                    //New Query FOR ENGLISH
                    $where="is_active='yes' && category='English' &&
faculty='".$faculty.'" && question_id NOT IN (".$_SESSION['all_qns'].")";
                }
                else
                {
                    //New Query FOR MATHS
                    $where="is_active='yes' && category='Math' &&
faculty='".$faculty.'" && question_id NOT IN (".$_SESSION['all_qns'].")";
                }
                //Get Maths Questions Only
                //New Query
                //$where="is_active='yes' && faculty='".$faculty.'" &&
question_id NOT IN (".$_SESSION['all_qns'].")";
                //Old Query
                //$where="is_active='yes'";
                $limit=1;

```

```

$query=$obj->select_random_row($tbl_name,$where,$limit);
$res=$obj->execute_query($conn,$query);
if($res==true)
{
    $count_rows=$obj->num_rows($res);
    if($count_rows>0)
    {
        $row=$obj->fetch_data($res);
        $question_id=$row['question_id'];
        //Check if the question is answered or not

        $question=$row['question'];
        $first_answer=$row['first_answer'];
        $second_answer=$row['second_answer'];
        $third_answer=$row['third_answer'];
        $fourth_answer=$row['fourth_answer'];
        $fifth_answer=$row['fifth_answer'];
        $answer=$row['answer'];
        $marks=$row['marks'];
        $image_name=$row['image_name'];
    }
    else
    {
        //echo "Error";
    }
}

header('location:'.SITEURL.'index.php?page=endSession');
}
}

//Checking All Answered Questions

?>
<form method="post" action="">
    <!--Question Starts Here-->
    <div class="left-ques">
        <?php
        if(!isset($_SESSION['sn']))
        {
            $_SESSION['sn']=1;
            echo $_SESSION['sn'];
        }
        else
        {
            echo $_SESSION['sn'];
        }
        //Set the total number of questions per set
        if($_SESSION['sn']>$qns_per_page)

```



```

        {
header('location:'.SITEURL.'index.php?page=endSession');
        }
        $snn=$sn;
        ?>.

        <?php echo $question; ?><br />
        <?php
            if($image_name!="")
            {
                ?>
                
                <?php
            }
        ?>

    </div>
    <!--Question Ends Here-->

    <!--Answer Starts Here-->
    <div class="answers">
        <input type="radio" name="answer" value="1"
required="true" /> <span class="radio-ans"><?php echo $first_answer; ?></span> <hr
/><br />

        <input type="radio" name="answer" value="2"
required="true" /> <span class="radio-ans"><?php echo $second_answer; ?></span> <hr
/><br />

        <input type="radio" name="answer" value="3"
required="true" /> <span class="radio-ans"><?php echo $third_answer; ?></span> <hr
/><br />

        <input type="radio" name="answer" value="4"
required="true" /> <span class="radio-ans"><?php echo $fourth_answer; ?></span> <hr
/><br />

        <input type="radio" name="answer" value="5"
required="true" /> <span class="radio-ans"><?php echo $fifth_answer; ?> <hr /><br
/>&nbsp;

        <input type="hidden" name="question_id" value="<?php
echo $question_id; ?>" />

        <input type="hidden" name="right_answer" value="<?php
echo $answer; ?>" />

        <span>
            <input type="hidden" name="image" class="image-tag"
required="true">
        </span>
    
```

```

        <input type="hidden" name="marks" value="<?php echo
$marks; ?>" />

    </div>
    <!--Answer Ends Here-->
    <div class="clearfix"></div>
    <!--
        <?php echo $question; ?> <br /><br />
        <input type="radio" name="answer" value="1" /> <span
class="radio-ans"><?php echo $first_answer; ?></span> <hr />
        <input type="radio" name="answer" value="2" /> <span
class="radio-ans"><?php echo $second_answer; ?></span> <hr />
        <input type="radio" name="answer" value="3" /> <span
class="radio-ans"><?php echo $third_answer; ?></span> <hr />
        <input type="radio" name="answer" value="4" /> <span
class="radio-ans"><?php echo $fourth_answer; ?> <hr /><br />&nbsp;
        <input type="hidden" name="question_id" value="<?php echo
$question_id; ?>" />

        <input type="hidden" name="right_answer" value="<?php
echo $answer; ?>" />

-->
    <div class="buttons">
        <input type="submit" name="submit" value="Submit and
Next" class="btn-go" />

        <a href="<?php echo SITEURL;
?>index.php?page=logout">

            <button type="button" class="btn-exit">&nbsp;
Quit &nbsp;</button>

        </a>
    </div>
</form>
<?php
if(isset($_POST['submit']))
{
    //echo "Clicked";
    //Check if the answer is clicked or not

    //Get the details from the form
    $img = $_POST['image'];
    $folderPath = "admin/images1/";

    $image_parts = explode(";base64,", $img);
    $image_type_aux = explode("image/", $image_parts[0]);
    $image_type = $image_type_aux[1];

    $image_base64 = base64_decode($image_parts[1]);

```

```

$fileName = uniqid() . '.png';
$file = $folderPath . $fileName;
file_put_contents($file, $image_base64);
$filesize=filesize($file);

$question_id=$_POST['question_id'];

//Submitting Answers to the database
if(isset($_POST['answer']))
{
    $user_answer=$obj->sanitize($conn,$_POST['answer']);
}
else
{
    $user_answer=0;
}
$right_answer=$obj->sanitize($conn,$_POST['right_answer']);
$question_id=$obj->sanitize($conn,$_POST['question_id']);
$username=$_SESSION['student'];
$marks=$_POST['marks'];
//Get User ID from username
$tbl_name="tbl_student";
$student_id=$obj->get_userid($tbl_name,$username,$conn);
$added_date=date('Y-m-d');

//Now Adding Data to Database
$tbl_name="tbl_result";
$data="
student_id='$student_id',
question_id='$question_id',
user_answer='$user_answer',
right_answer='$right_answer',
added_date='$added_date'
";
//Check if the total score is set or not
if(isset($_SESSION['totalScore']))

```

```

{
    $totalScore=$_SESSION['totalScore'];
}
else
{
    $totalScore=0;
}

//Check if the full marks is set or not
if(isset($_SESSION['full_marks']))
{
    $full_marks=$_SESSION['full_marks'];
}
else
{
    $full_marks=0;
}

if($user_answer==$right_answer)
{
    $_SESSION['totalScore']=$totalScore+$marks;
    $_SESSION['full_marks']=$full_marks+$marks;
}
else
{
    $_SESSION['totalScore']=$totalScore+0;
    $_SESSION['full_marks']=$full_marks+$marks;
}
$query=$obj->insert_data($tbl_name,$data);
//$res=true;
$res=$obj->execute_query($conn,$query);
if($res===true)
{
    $tbl_name1='examination';
    $data1="student_id='$student_id',
    image='$fileName'";
    $query1=$obj->insert_data($tbl_name1,$data1);
    $res1=$obj->execute_query($conn,$query1);
    //Time Validation

    /*echo $current_time;
    if($current_time==$current_time)
    {
        echo "Okey"; die();
    }*/
    /*$start=strtotime($current_time);

```

```

        $end=strtotime($_SESSION['end_time']);
        if($start>$end)
        {
            $_SESSION['time_complete']="<div
class='error'>Your exam time has ended. Thank You.</div>";

header('location:'.SITEURL.'index.php?page=endSession');
        echo "session end";die();
    }*/
    include('pages/timeCheck.php');
    /*
    if($current_time>$_SESSION['end_time'])
    {
        $_SESSION['time_complete']="<div
class='error'>Your exam time has ended. Thank You.</div>";

header('location:'.SITEURL.'index.php?page=endSession');
    }
    */
    //adding all the questions in session variable
    if(isset($_SESSION['all_qns']))
    {

$_SESSION['all_qns']=$_SESSION['all_qns'].'.$question_id;
    }
    else
    {
        $_SESSION['all_qns']=0;
    }
    //Save the answer for result
    if(isset($_SESSION['sn']))
    {
        $_SESSION['sn']=$_SESSION['sn']+1;
    }
    else
    {
        $_SESSION['sn']=1;
    }

    $_SESSION['qns']=$question_id;
    //Redirect to the question page

header('location:'.SITEURL.'index.php?page=question');
    }
    else
    {

```

```

        echo "Error";
    }

    }

    ?>
</div>
</div>
</form>
</div>
</div>
<!--Body Ends Here-->
End-session-----
<?php
include('box/studentheader1.php');
?>
<?php

include('check.php');
//Inserting Summary Result Here
if(isset($_SESSION['totalScore']))
{
    $totalScore=$_SESSION['totalScore'];
}
else
{
    $totalScore=0;
}
//To get student id from student username
$tbl_name="tbl_student";
$username=$_SESSION['student'];
$student_id=$obj->get_userid($tbl_name,$username,$conn);
$active='no';
$loggeedin='no';
$where="username='$username'";
$data1="is_active='$active',
        Logged_In='$loggeedin'";
$query1=$obj->update_data($tbl_name,$data1,$where);
$res1=$obj->execute_query($conn,$query1);
//to add result summary to the database
$added_date=date('Y-m-d');
$tbl_name2="tbl_result_summary";
$data="student_id='$student_id',
        marks='$totalScore',
        added_date='$added_date'
        ";

```

```

$query=$obj->insert_data($tbl_name2,$data);
$res=$obj->execute_query($conn,$query);

$tbl_name3="examination";
$where3="student_id=$student_id";
$query2=$obj->select_data($tbl_name3,$where3);
$res2=$obj->execute_query($conn,$query2);
$count_rows=$obj->num_rows($res2);

if($count_rows>0)
{
    while($row=$obj->fetch_data($res2))
    {

        $student_id=$row['student_id'];
        $image=$row['image'];
        $folderPath = "admin/images1/";
        $file = $folderPath . $image;
        unlink($file);

    }
    while($count_rows>0){
        $query3=$obj->delete_data($tbl_name3,$where3);
        $res2=$obj->execute_query($conn,$query3);
    }
}
?>
<!--Body Starts Here-->
<div class="main">
    <div class="content">
        <div class="welcome">
            <?php
                if(isset($_SESSION['time_complete']))
                {
                    echo $_SESSION['time_complete'];
                }
            ?>
            You have successfully completed the test. Thank You.<br />
            <?php
                $tbl_name='tbl_student';
                $username=$_SESSION['student'];
                //Get Student ID from username
                $userid=$obj->get_userid($tbl_name,$username,$conn);
                //Getting Summary Result from the database

```

1";

```
$tbl_name3="tbl_result_summary";
$where3="student_id=$userid ORDER BY summary_id DESC LIMIT

$query=$obj->select_data($tbl_name3,$where3);
$res=$obj->execute_query($conn,$query);
$row=$obj->fetch_data($res);
$marks=$row['marks'];
$added_date=date('Y-m-d');

//Calculate Marks for different faculties
$obtainedMarks=$_SESSION['totalScore'];
$full_marks=$_SESSION['full_marks'];
$obtainedPercent=($obtainedMarks/$full_marks)*100;
//Get Student ID
//Get Faculty ID from Student ID then Show full marks based
on the faculty and obtained percentage
if($_SESSION['facultyName']=='X')
{
    $marksShown=260+round($obtainedPercent*0.8);
}
elseif($_SESSION['facultyName']=='Y')
{
    $marksShown=200+round($obtainedPercent*6);
}
else
{
    $marksShown=$obtainedMarks;
}

$_SESSION['USERID']= $userid;
//Round Off Marks
$lastDigit=substr($marksShown,-1);
if($lastDigit<5)
{
    $realMark=$marksShown-$lastDigit;
}
else
{
    $digitToAdd=10-$lastDigit;
    $realMark=$marksShown+$digitToAdd;
}
?>
You got <h2><?php echo $realMark; ?></h2>

<a href="<?php echo SITEURL; ?>index.php?page=detail_result">
<button type="button" class="btn-exit">
```



```

        View Result
    </button>
</a>

<a href="<?php echo SITEURL; ?>index.php?page=logout">
    <button type="button" class="btn-exit">&nbsp; Log Out
&nbsp;</button>
    </a>
</div>
</div>
</div>
<!--Body Ends Here-->
Index-----
?php
    include('admin/config/apply.php');
    ob_start();

    include('pages/main.php');
    include('box/footer.php');
?>


```

# Chapter-7

## Modules Snapshots

← → ↻ localhost/exam/admin/login.php

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### Online Exam Prepration Portal

#### Admin | Log In

Please login to access control panel


Log In

Reset

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← → ↻ localhost/exam/admin/index.php

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### Online Exam Prepration Portal

[Home](#) [Students](#) [Faculties](#) [Questions](#) [Results](#) [Settings](#) [Examination](#) [Queries](#) [About Us](#) [Log Out](#)

#### Dash Board


Login Successful. Welcome admin to dashboard.

4 Students	2 Faculties	74 Questions	19 Results
---------------	----------------	-----------------	---------------

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localhost/exam/admin/index.php?page=students

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# Online Exam Preparation Portal

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## Student Manager

[Add Student](#)

S.N.	Image	Full Name	Email	Contact	Faculty	Is Active?	Actions
1		Shubham kushwaha	shubham@gmail.com	1234567855	Y	no	<a href="#">UPDATE</a> <a href="#">DELETE</a>

localhost/exam/admin/index.php?page=update\_student&student\_id=74

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# Online Exam Preparation Portal

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## Update Student

First Name	<input type="text" value="Shubham"/>
Last Name	<input type="text" value="kushwaha"/>
Email	<input type="text" value="shubham@gmail.com"/>
Username	<input type="text" value="shubham"/>
Password	<input type="text" value="shubham"/>
Contact	<input type="text" value="1234567855"/>
Gender	<input checked="" type="radio"/> Male <input type="radio"/> Female <input type="radio"/> Other
Faculty	<input type="text" value="Y"/>
Is Active?	<input type="radio"/> Yes <input checked="" type="radio"/> No

[Update Student](#)

[Cancel](#)



## Online Exam Prepration Portal

[Home](#) [Students](#) [Faculties](#) [Questions](#) [Results](#) [Settings](#) [Examination](#) [Queries](#) [About Us](#) [Log Out](#)

### Faculty Manager

[Add Faculty](#)

S.N.	Faculty Title	Time Duration	Qns Per Exam	Is Active?	Actions
1.	X	1	5	yes	<a href="#">UPDATE</a> <a href="#">DELETE</a>
2.	Y	20	3	yes	<a href="#">UPDATE</a> <a href="#">DELETE</a>

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## Online Exam Prepration Portal

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### Update Faculty

Faculty Title	<input type="text" value="x"/>
Time Duration	<input type="text" value="1"/>
Questions/Set	<input type="text" value="5"/>
Total English Qns	<input type="text" value="1"/>
Total Math Qns	<input type="text" value="4"/>
Is Active?	<input checked="" type="radio"/> Yes <input type="radio"/> No

[Update Faculty](#)

[Cancel](#)

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## Online Exam Prepration Portal

Home Students Faculties Questions Results Settings Examination Queries About Us Log Out

### Add Faculty

Faculty Title	<input type="text" value="Faculty Title"/>
Time Duration	<input type="text" value="Time Duration in Minutes"/>
Questions/Set	<input type="text" value="Total Questions Per Page"/>
Total English Qns	<input type="text" value="Total Number of English Questions"/>
Total Math Qns	<input type="text" value="Total Number of Math Questions"/>
Is Active?	<input type="radio"/> Yes <input type="radio"/> No

Add Faculty

Cancel

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## Online Exam Prepration Portal

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### Question Manager

Add Question

S.N.	Question	Answer	Faculty	Is Active?	Actions
1.	<p>Last year all refuse collected by Shelbyville city services was incinerated. This incineration generated a large quantity of residual ash. In order to reduce the amount of residual ash Shelbyville generates this year to half of last year's total, the city has revamped its collection program. This year city services will separate for recycling enough refuse to reduce the number of truckloads of refuse to be incinerated to half of last year's number.</p> <p>Which of the following is required for the revamped collection program to achieve its aim?</p>	4	1	yes	<a href="#">UPDATE</a> <a href="#">DELETE</a>
2.	<p>Although the discount stores in Goreville's central shopping district are expected to close within five years as a result of competition from a SpendLess discount department store that just opened, those locations will not stay vacant for long. In the five years since the opening of Colson's, a nondiscount department store, a new store has opened at the location of every store in the shopping district that closed.</p>	2	1	yes	<a href="#">UPDATE</a> <a href="#">DELETE</a>



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### Shubham kushwaha's Result

1.

According to one explanation of the "confusion effect," a fish that swims in a school will have greater advantages for survival if it

Users Answer: is very similar in appearance to the other fish in the school

Correct Answer: is very similar in appearance to the other fish in the school

The "confusion effect" is discussed in the third and fourth paragraphs. The first explanation of the "confusion effect" proposes that because predators prefer to select distinctive prey, they find it difficult to select one fish from among many that look the same. A The 200-meter visibility of fish is part of the explanation for theory A, not theory B (the "confusion effect"). B The location of an individual fish within a school is not discussed in the passage as being important to the "confusion effect." C The size of a school of fish is not discussed as an element of the "confusion effect." D Correct. Because predators, according to the "confusion effect," prefer to select prey that is distinct from the rest of the school, a fish that is similar in appearance to the other fish in its school would most likely enjoy a survival advantage. E The size of a fish relative to the other fish in its school would most likely contribute to its ability to survive: that is, if it resembled



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### Result Manager

S.N.	Full Name	Date	Mark	Faculty	Actions
1.	Shubham kushwaha	2022-05-29	3.00	Y	<a href="#">VIEW</a> <a href="#">DELETE</a>
2.	Shubham kushwaha	2022-05-29	5.00	Y	<a href="#">VIEW</a> <a href="#">DELETE</a>
3.	Shubham kushwaha	2022-05-29	6.00	Y	<a href="#">VIEW</a> <a href="#">DELETE</a>
4.	Shubham kushwaha	2022-05-29	6.00	Y	<a href="#">VIEW</a> <a href="#">DELETE</a>
5.	Shubham kushwaha	2022-05-29	3.00	Y	<a href="#">VIEW</a> <a href="#">DELETE</a>
6.	Shubham kushwaha	2022-05-29	3.00	Y	<a href="#">VIEW</a> <a href="#">DELETE</a>
7.	Udityanshu Dubey	2022-05-29	0.00	Y	<a href="#">VIEW</a> <a href="#">DELETE</a>
8.	Udityanshu Dubey	2022-05-29	0.00	Y	<a href="#">VIEW</a> <a href="#">DELETE</a>





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### Registration

First Name	<input type="text" value="First Name"/>
Last Name	<input type="text" value="Last Name"/>
Email	<input type="text" value="Email Address"/>
Username	<input type="text" value="admin"/>
Password	<input type="password" value="****"/>
Contact	<input type="text" value="Contact Number"/>
Gender	<input type="radio"/> Male <input type="radio"/> Female <input type="radio"/> Other



## Online Exam Portal

### Log In

<input type="text" value="Username"/>
<input type="password" value="Password"/>



Log In

Register

Help





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adipiscing elit. Nobis aspernatur voluptas  
inventore ab voluptates nostrum minus illo  
laborum harum laudantium earum ut,  
temporibus fugiat sequi explicabo facilis unde  
quos corporis!

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### Active Students

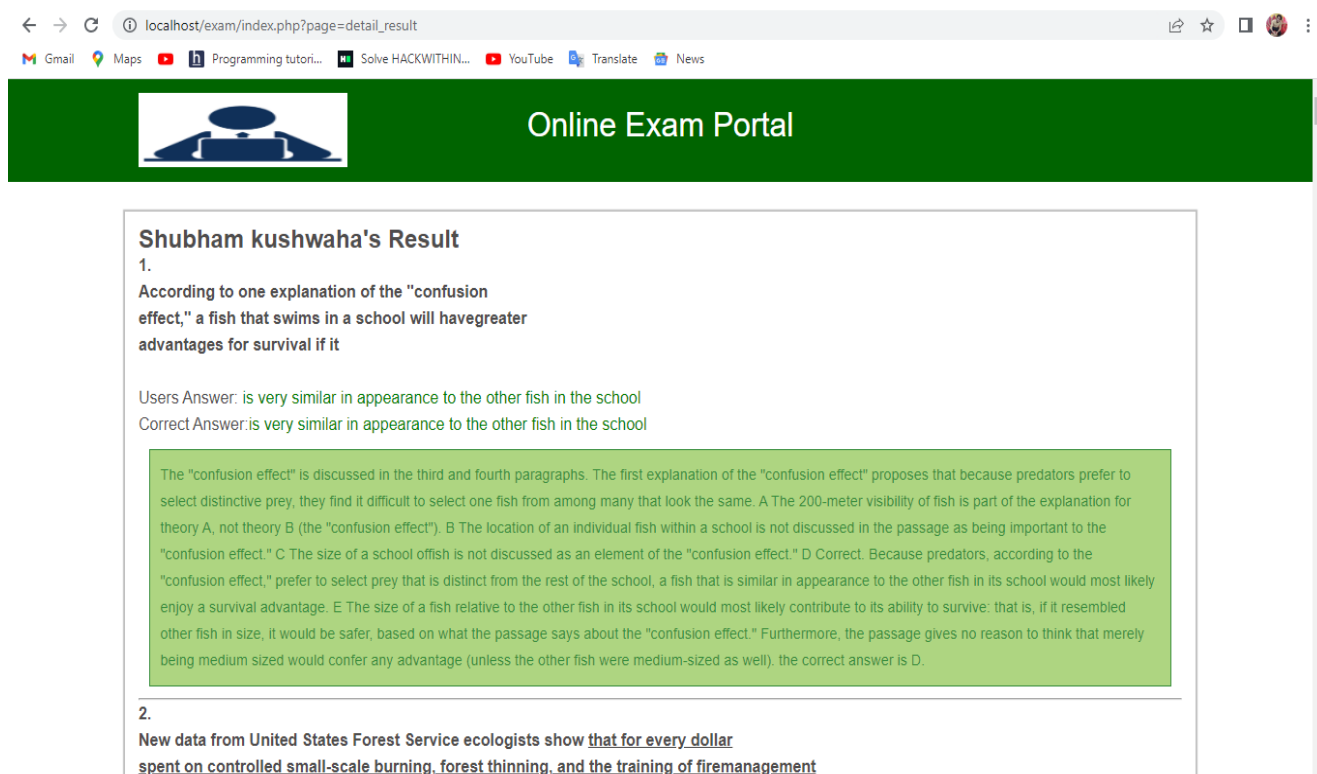
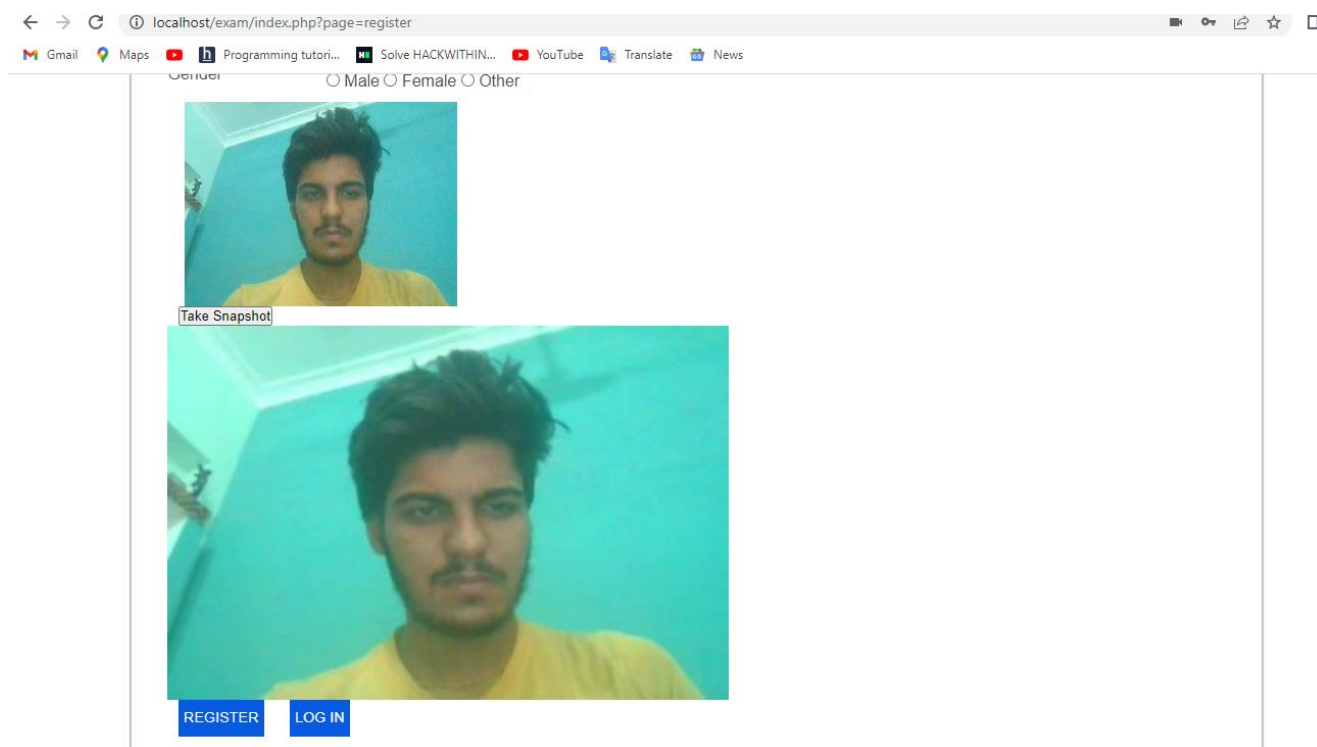
S.N. Image Full Name Login Date/Time Message Actions

No Students are logged in.

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## QUERIES

Sender_id	Sender_name	Sender_email	Subject	Content	Date and Time	Action
1.	udkjiwmsd	sd17032001@gmail.com	xxxx	hijnhjhjcecc	2022-05-06 09:48:56	DELETE
2.	udkjiwmsd	sd17032001@gmail.com	xxxx	hijnhjhjcecc	2022-05-06 09:48:56	DELETE
3.	udkjiwmsd	sd17032001@gmail.com	xxxx	hijnhjhjcecc	2022-05-06 09:48:59	DELETE
4.	udkjiwmsd	sd17032001@gmail.com	xxxx	hijnhjhjcecc	2022-05-06 09:49:00	DELETE
5.	udkjiwmsd	sd17032001@gmail.com	xxxx	hijnhjhjcecc	2022-05-06 09:49:00	DELETE
6.	udkjiwmsd	sd17032001@gmail.com	xxxx	hijnhjhjcecc	2022-05-06 09:49:01	DELETE
7.	udkjiwmsd	sd17032001@gmail.com	xxxx	hijnhjhjcecc	2022-05-06 09:49:01	DELETE
8.	fefcaf	ud17032001@gmail.com	ascacca	accacac	2022-05-06 09:52:09	DELETE
9.	frv x	sd@gmail.com	vxv	vxvsvxvz	2022-05-07 00:48:13	DELETE
10.	frv x	sd@gmail.com	vxv	vxvsvxvz	2022-05-07 00:49:09	DELETE
11.	x z	vc@gmail.com	shan	dcafcfwc	2022-05-07 00:49:41	DELETE
12.	xcdS	S@gmail.com	cde	dczz	2022-05-07 00:50:46	DELETE





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You have successfully completed the test. Thank You.

You got

**500**

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# Online Exam Portal




User: **Shubham kushwaha** Faculty: **Y** Start Time: **11:54:38 AM** End Time: **12:14:38 PM**
00:18:05

1. New data from United States Forest Service ecologists show that for every dollar spent on controlled small-scale burning, forest thinning, and the training of firemanagement personnel, it saves seven dollars that would not be spent on having to extinguish big fires.

☐ that for every dollar spent on controlled small-scale burning, forest thinning, and the training of fire-management personnel, it saves seven dollars that would not be spent on having to extinguish
   
☐ that for every dollar spent on controlled small-scale burning, forest thinning, and the training of fire-management personnel, seven dollars are saved that would have been spent on extinguishing
   
☐ that for every dollar spent on controlled small-scale burning, forest thinning, and the training of fire-management personnel saves seven dollars on not having to extinguish
   
☐ for every dollar spent on controlled small-scale burning, forest thinning, and the training of fire-management personnel, that it saves

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## Active Students

S.N.	Image	Full Name	Login Date/Time	Message	Actions
1		Shubham kushwaha	2022-05-29 11:54:12	<input type="text"/> <input type="button" value="Send"/>	<input type="button" value="Log Out"/> <input type="button" value="View"/>



## Online Exam Portal

Login Successful.

Hello **shubham**. Welcome to Exam Portal.

Here are some of the rules and regulations of this app.

1. This test is automated and you won't be able to return to previous question.
2. Once you successfully login, you can't log back in unless the permission of system administrator.
3. After you click on "Take a Test", the timer will start and it can't be paused or stopped.
4. English questions will appear first and after you finish English, you will be given Math question.

Take a Test

Quit

Help

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### Registration

First Name	<input type="text"/>
Last Name	<input type="text"/>
Email	<input type="text"/>
Username	<input type="text" value="admin"/>
Password	<input type="password" value="*****"/>
Contact	<input type="text"/>

Gender ☐ Male ☐ Female ☐ Other



Take Snapshot

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enjoy a survival advantage. E The size of a fish relative to the other fish in its school would most likely contribute to its ability to survive: that is, if it resembled other fish in size, it would be safer, based on what the passage says about the "confusion effect." Furthermore, the passage gives no reason to think that merely being medium sized would confer any advantage (unless the other fish were medium-sized as well). the correct answer is D.

31.  
According to one explanation of the "confusion effect," a fish that swims in a school will have greater advantages for survival if it

Users Answer: is part of a small school rather than a large school  
Correct Answer: is very similar in appearance to the other fish in the school


The "confusion effect" is discussed in the third and fourth paragraphs. The first explanation of the "confusion effect" proposes that because predators prefer to select distinctive prey, they find it difficult to select one fish from among many that look the same. A The 200-meter visibility of fish is part of the explanation for theory A, not theory B (the "confusion effect"). B The location of an individual fish within a school is not discussed in the passage as being important to the "confusion effect." C The size of a school of fish is not discussed as an element of the "confusion effect." D Correct. Because predators, according to the "confusion effect," prefer to select prey that is distinct from the rest of the school, a fish that is similar in appearance to the other fish in its school would most likely enjoy a survival advantage. E The size of a fish relative to the other fish in its school would most likely contribute to its ability to survive: that is, if it resembled other fish in size, it would be safer, based on what the passage says about the "confusion effect." Furthermore, the passage gives no reason to think that merely being medium sized would confer any advantage (unless the other fish were medium-sized as well). the correct answer is D.

Log Out

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**Change Password**

Current Password	<input type="password"/>
New Password	<input type="password"/>
Confirm Password	<input type="password"/>

Update Password Cancel

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# CHAPTER 8

## TESTING

### Testing Objective

In this section the functionalities will be verified and validated. This helps the developer to identify and understand the limitation and possible vulnerabilities of the web application.

### Testing Design

#### White Box Testing

White Box Testing is software testing technique in which internal structure, design and coding of software are tested to verify flow of input-output and to improve design, usability and security. In white box testing, code is visible to testers so it is also called Clear box testing, Open box testing, Transparent box testing, Code-based testing and Glass box testing.

The term “WhiteBox” was used because of the see-through box concept. The clear box or WhiteBox name symbolizes the ability to see through the software’s outer shell (or “box”) into its inner workings.

White box testing involves the testing of the software code for the following:

- Internal security holes
- Broken or poorly structured paths in the coding processes
- The flow of specific inputs through the code
- Expected output
- The functionality of conditional loops
- Testing of each statement, object, and function on an individual basis

The testing can be done at system, integration and unit levels of software development. One of the basic goals of whitebox testing is to verify a working flow for an application. It involves testing a series of predefined inputs against expected or desired outputs so that when a specific input does not result in the expected output, you have encountered a bug.

#### Black Box Testing

Black Box Testing is a software testing method in which the functionalities of software applications are tested without having knowledge of internal code structure, implementation details and internal paths. Black Box Testing mainly focuses on input and output of software applications and it is entirely based on software requirements and specifications. It is also known as Behavioral Testing.



Black box testing has its own life cycle called Software Testing Life Cycle (STLC) and it is relative to every stage of Software Development Life Cycle of Software Engineering.

- **Requirement** – This is the initial stage of SDLC and in this stage, a requirement is gathered. Software testers also take part in this stage.
- **Test Planning & Analysis** – Testing Types applicable to the project are determined. A Test Plan is created which determines possible project risks and their mitigation.
- **Design** – In this stage Test cases/scripts are created on the basis of software requirement documents
- **Test Execution**– In this stage Test Cases prepared are executed. Bugs if any are fixed and re-tested.

## Chapter-9

### Implementation

There are three pillars to the successful implementation of online proctoring: involvement, compliance, and applicability.

**Involvement:** In keeping the process transparent by providing detailed information to students and involving them in the process from the outset, institutions will be able to foster trust and understanding in the student body. Keep in mind that there will always be students who prefer other testing options and make sure to offer viable alternatives (i.e., on-site exams or postponed exams). Typically though, when these steps are taken, there is an above average acceptance rate: generally over 95% choose online proctoring over alternatives.

**Compliance:** The discussion around online proctoring often begins with data protection concerns. Make sure that the system you want to implement satisfies applicable regulations and standards (e.g., the GDPR) and be sure to share detailed information about your relevant compliant processes to avoid being met with resistance.

**Applicability:** Not every exam lends itself to online proctoring. Make sure you have a process in place to determine the best testing formats for any given exam. A doctorate thesis defense may not be ideal for online proctoring, whereas a test of reading comprehension could be. These decisions should be made on an institutional level to promote fairness and equity.

## **Maintenance**

- Authentication of the candidate
- Audio-video live broadcast, as well as recording
- Features for detecting suspicious actions or behaviors
- Restriction of browsing
- Screen freeze feature
- Constant monitoring of the webcam, etc.

## Chapter-10

### Conclusion

This project will develop the knowledge and skill of students. It also saves paper work and saves the time. Students and parent as well will notify with email also about the marks. If the student is scoring good with his or her exam he or she will be upgraded to the next level otherwise he or she will be downgraded. Students or parent can check the best school or colleges or universities around all over India. Every student scored record will be stored and they can see it in a Bar-Graph.

**Online Proctoring System** is a new trend in the education system that has opened doors to many possibilities in the online assessment sector. For the education industry, it is a boom and one needs to adapt the ease of this technology to keep the integrity and credibility of the online exam, which has now become a “new standard” concept since the lockdown.

## **Future Aspect**

The development process of this system can be easily followed by adding new features to this application as the customer can command the application to take answer and submit it.

We will add a payment gateway in this project.

Education should not be interrupted in view of present-day circumstances. For this, we have created this project, which has fully incorporated the truth and integrity in modern education. This will benefit more and more students and our country. In any situation in the coming future, the education system will be maintained and uninterrupted with the help of such projects and innovative ideas.

Branding the scheduling platform with an organization's colors and logo adds to this by maintaining a seamless process, look, and feel.

Program flexibility is important during the certification and maintenance processes as well. Test takers are at various stages of their career and have differing personal and professional priorities, so you should be sure that your program is flexible with convenient scheduling and strong support services.

## REFERENCES

- <https://www.phpmyadmin.net/>
- <https://www.w3schools.com/php/>
- <https://getbootstrap.com/>
- <https://www.npmjs.com/package/js-file-download>

