NEIL GOGTE INSTITUTE OF TECHNOLOGY

(A Unit of Keshav Memorial Technical Education (KMTES)
(Approved by AICTE, New Delhi & Affiliated to Osmania University, Hyderabad).

A

MINI PROJECT REPORT

On

ONLINE COURSE REGSTRATION SYSTEM

BACHELOR OF ENGINEERING

in

COMPUTER SCIENCE AND ENGINEERING

Submitted by

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Under the Guidance of

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March 2021

NEIL GOGTE INSTITUTE OF TECHNOLOGY

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CERTIFICATE

This is to certify that the project report titled **ONLINE COURSE REGSTRATION SYSTEM** is being submitted by **Garlapati Sai Akshay (245318733022)**, **Vinjanampati Sri Harsha (245318733057), Mohammed Abdul Yousuf Baig(245318733301), B. Devavrath Reddy(245318733016)** of III year B.E.V Semester **Computer Science and Engineering** is a record of bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

Internal Guide **HOD**

External Examiner

NEIL GOGTE INSTITUTE OF TECHNOLOGY
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DECLARATION

We hereby declare that the Mini Project Report entitled, **ONLINE COURSE REGSTRATION SYSTEM** submitted for the B.E degree is entirely our work and all ideas and references have been duly acknowledged. It does not contain any work for the award of any other degree.

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We are very grateful to our project guide "**Name",** Designation, Department of Computer Science and Engineering, Neil Gogte Institute of Technology, for his extensive patience and guidance throughout our project work.

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1. INTRODUCTION

We are formulating the online course registration system which will facilitate effective learning platform through Online Videos, Assignments, Exams, direct communication between the Professors and the students, Providing Certification for the completion of the course.

This platform will be providing direct contact of the professors with the students, the desired query of the students will be answered at fast rate. This keeps the student clear and can keep his course continued.

This platform highlights the feature of communication, various technologies and courses to learn and get certified on current industry trends, Internship opportunity, and sponsored projects.

Online Course Registration System is a web based project which maintains a database of the students in the college, the courses being thought in the college and the professors teaching those courses. This system will automatically list all the courses of the college. The student has to be enrolled in at least 5 courses in order to start any of his course. And the student cannot enroll in more than 8 courses.

Students need to register in the system, then they have to login into the system. Student once registered will be member of this system, can view all the list of the courses provided, can read its description, watch its introductory video to understand the theme of the course. If student likes to enroll in that course, the student can proceed to pay the one-time fee intended for that particular course and can start completing the course.

This System provides all the above features without revealing any of his personal or other details to the public or any other users.

1.1 Motivation

We are very grateful to our project guide, Principal, Department of Computer Science and Engineering, Neil Gogte Institute of Technology, for their extensive patience and guidance throughout our project work. We are also thankful for their support and for their motivating us throughout the project by helping us get through the various doubts and the encouragement they have been providing us from the beginning to the end of the project.

We are also thankful for all of our teaching and non-teaching staff, who directly or indirectly helped us in our project and also for providing the lab equipment when needed. We were also motivated and interested to know the real life implementation on how to use the current technologies in order to make our project complete.

These are all the reasons that we got motivated, which made us complete the project.

1.2 Problem Statement

The following are the points we found as the problems in the current market.

- The most of the online learning platforms in the current market fail to provide the fast, live communication between the lecturers/professors and the students.
- Courses cost much fee.
- No proper lecturers available.

1.3 Solution

The following are the Solutions we have implemented to overcome the problems above.

- Provide the direct interaction between the student and the teaching staff to improve the speed of answering any of the student questions and other communication between them.
- Courses are offered in a reasonable cost.
- Highly and Legitimate Lecturers teach the courses, Lecturers also undergo tests to increase their skills so that students can learn even much better.

1.4 Objective

The Main Objective of this Project is to provide the Students to learn new technologies based on their desire and their interest by providing them the flexibility in time to complete the course in a reasonable price with the best qualified teaching staff. They will also have to submit assignments

and give exam to get much experience in that course. They will be provided with the Certificate after the completion of the course which will help them in their future career.

1.5 Limitations

The following are the limitations we have identified.

- Cannot view the list of courses without login.
- Without payment of the fee the student cannot enroll into any course.
- Student should be enrolled in at least 5 courses in order to start any course and can enroll in at most 8 courses only.

2. LITERATURE SURVEY

In order to develop this project, we have taken Literature Surveys which provided us with the basic idea of the implementation, the idea of how a system works in a real time scenario, what are all the technologies are being used and how these technologies are being used in an efficient way.

2.1 Surveys

This system is developed after performing a survey on the existing systems which provide similar features. The survey was performed on

- The GUI
- The languages used (both for front end and back end)
- The models/frameworks used.
- The type of Databases used.
- The operations performed
- The features available.

2.2 Existing Systems

The surveys taken on the existing systems which provide the similar features of this project.

- Coursera
- NPTEL

2.3 Disadvantages of Existing Systems

The following are the points we found as disadvantages in the existing systems.

- Most of the online learning platforms in the current market fail to provide the fast, live communication between the lecturers/professors and the students.
- Courses cost much fee.
- Old Assignments are being assigned to the students every time.
- No new technologies are taught.

2.4 - 2.5 Proposed System and its Advantages.

To overcome the disadvantages of the existing system, we have proposed the system with the following features.

- Provide the direct interaction between the student and the teaching staff to improve the speed of answering any of the student questions and other communication between them.
- Courses are offered in a reasonable cost.
- Highly and Legitimate Lecturers teach the courses, Lecturers also undergo tests to increase their skills so that students can learn even much better.

2.6 Conclusion

The overall conclusion of this Project is to provide the Students to learn new technologies based on their desire and their interest by providing them the flexibility in time to complete the course in a reasonable price with the best qualified teaching staff. They will also have to submit assignments and give exam to get much experience in that course. They will be provided with the Certificate after the completion of the course which will help them in their future career.

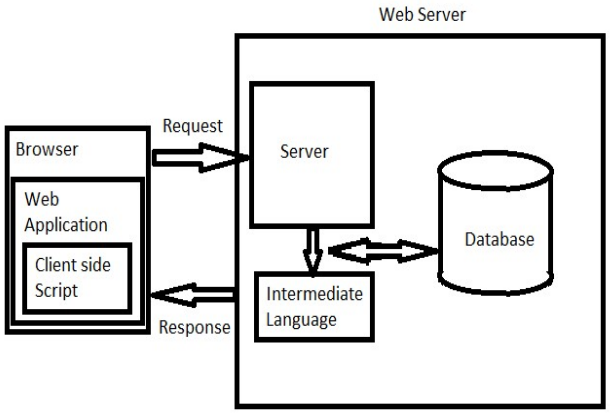
3. ANALYSIS

3.1 Software and Hardware Requirements

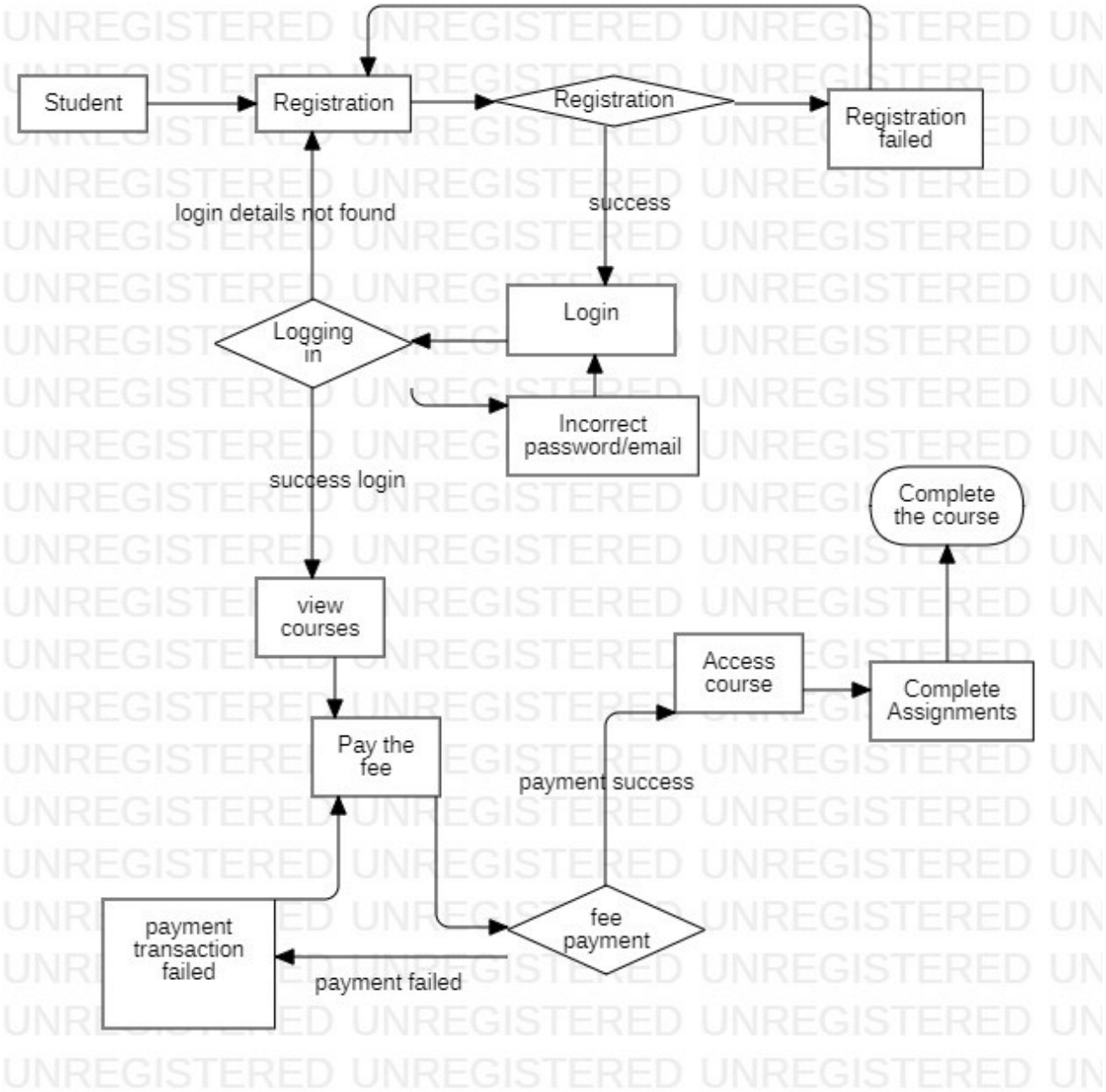
- Any System with Windows 7 or above.
- A Chrome or Firefox Web browser installed.
- An Internet connection or Local network connection.
- Processor Dual Core/ Celeron processor or above with 2.5Ghz / above
- RAM: 2GB or above
- Hard Disk: 20GB of free space or above
- Apache web server
- Database Management Software : My SQL, MongoDB

3.2 Content Diagrams

A. Architectural Diagram



B. Flow Diagram



3.3 Algorithms

Login

1. Get Username and Password
2. If user name is equal to the entered Username & the password is equal to the entered Password
3. Then login successful
4. Else login failed
5. End If.

```
Get Username Get Password
IF   FILE EXIST THEN
   READ Password   FROM   FILE
        IF FILE. Password ==   Entered Password
             Login   successful
                ELSE
                  PRINT "incorrect Username or password "
END IF
ELSE
     PRINT "incorrect Username or password "
END IF
```

Student - Edit Profile

1. Student login to account
2. Select student profile option

```
While Edit Profile
{
Update details
}
Save changes
EXIT
```

Student – Registration of a course

1. Student login to account
2. Select courses details option

While student course count less than 5
{
Student selects a course and gets enrolled into it
Increment student course count
}
While student course count less than 9
{
Student selects a course and gets enrolled into it
Increment student course count
}
Save changes
EXIT

3.4 Data Collection and Preparation

The Data for the project has been collected from the various reference sources in order to create a better flexible system which uses resources efficiently.

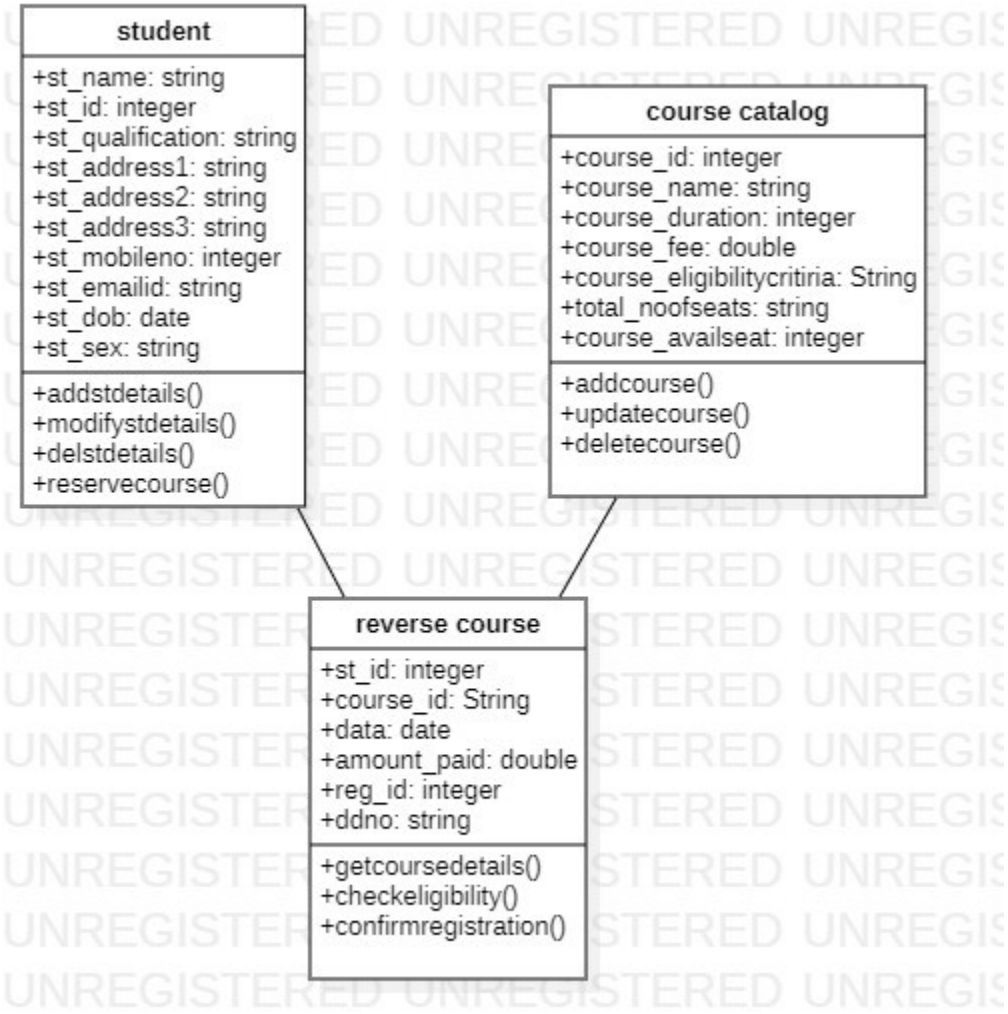
The Interface and its similar model data have been designed after case studying the existing model designs.

Some of the data have been collected and have been made as static data and most of the data is collected dynamically from the users at the runtime.

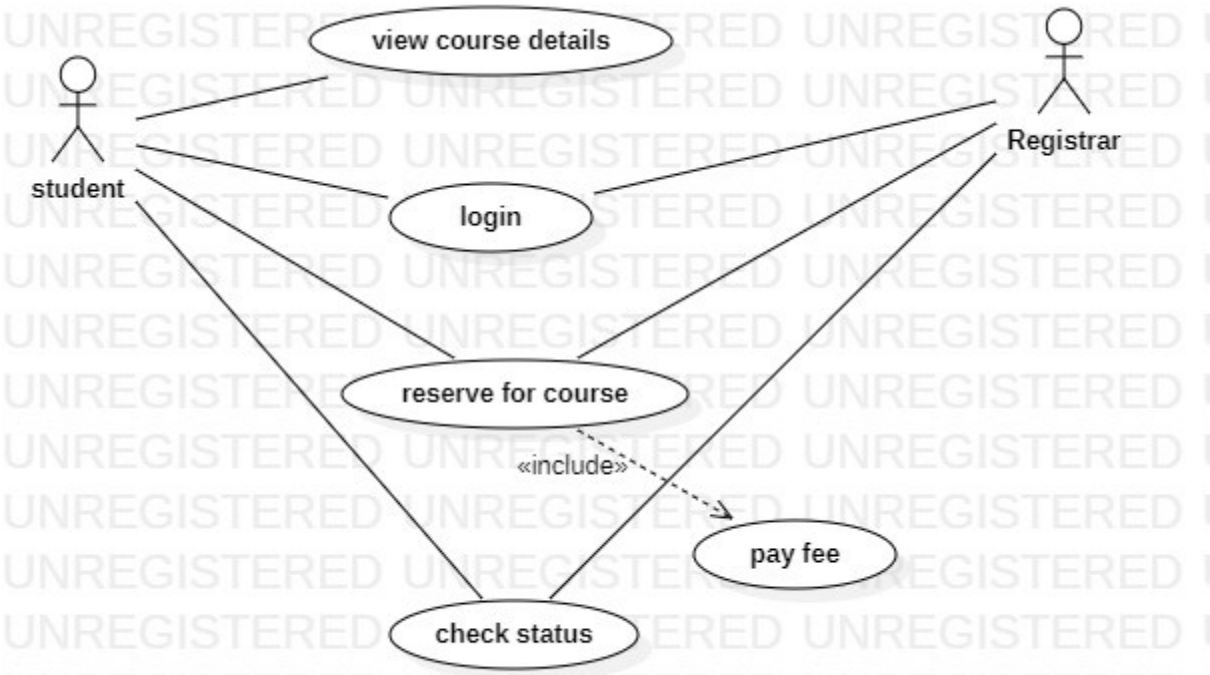
The course details are collected from the information available at the college and the professors who are intended to teach a particular course.

4. DESIGN

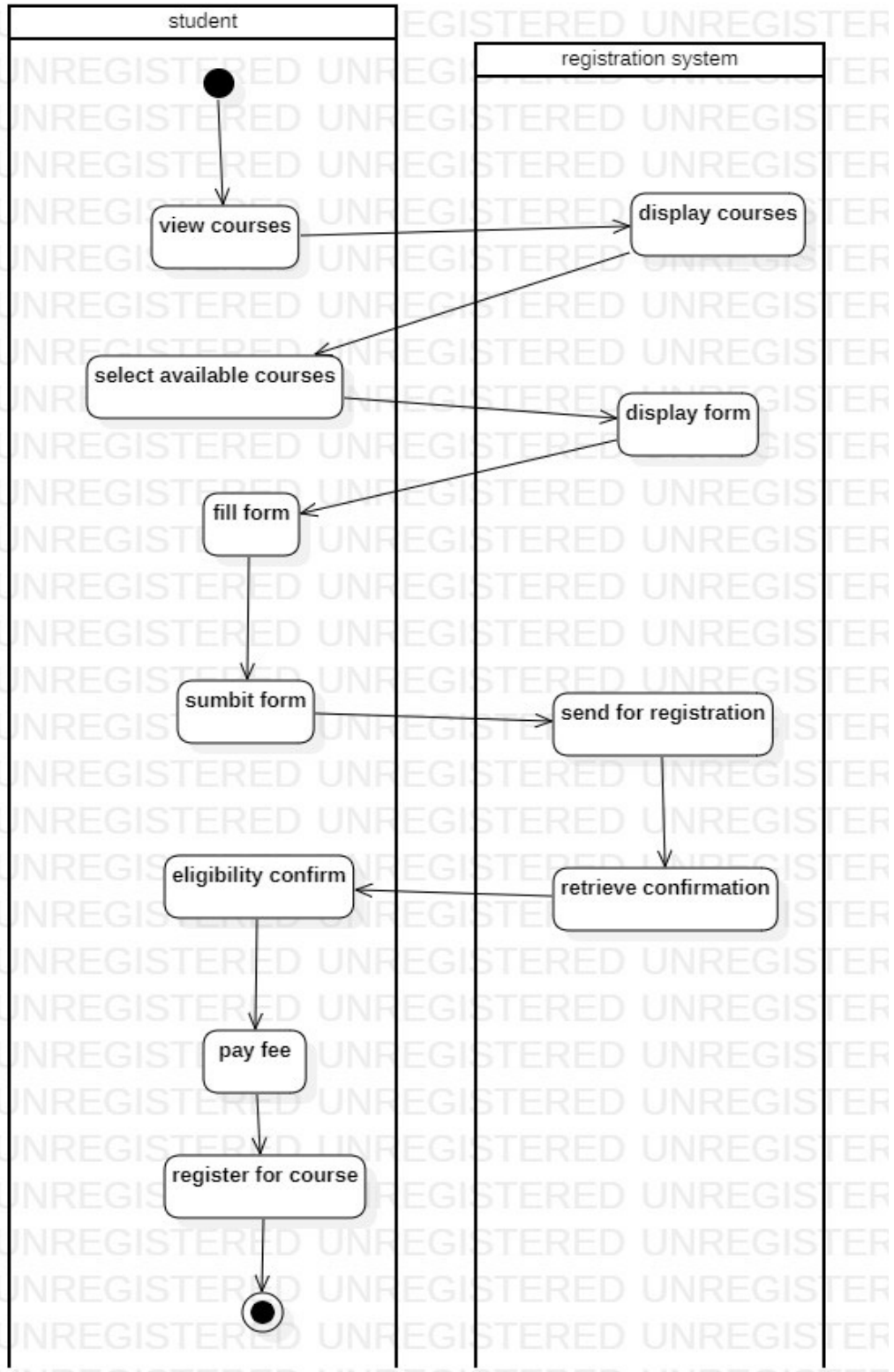
4.1 Class Diagram



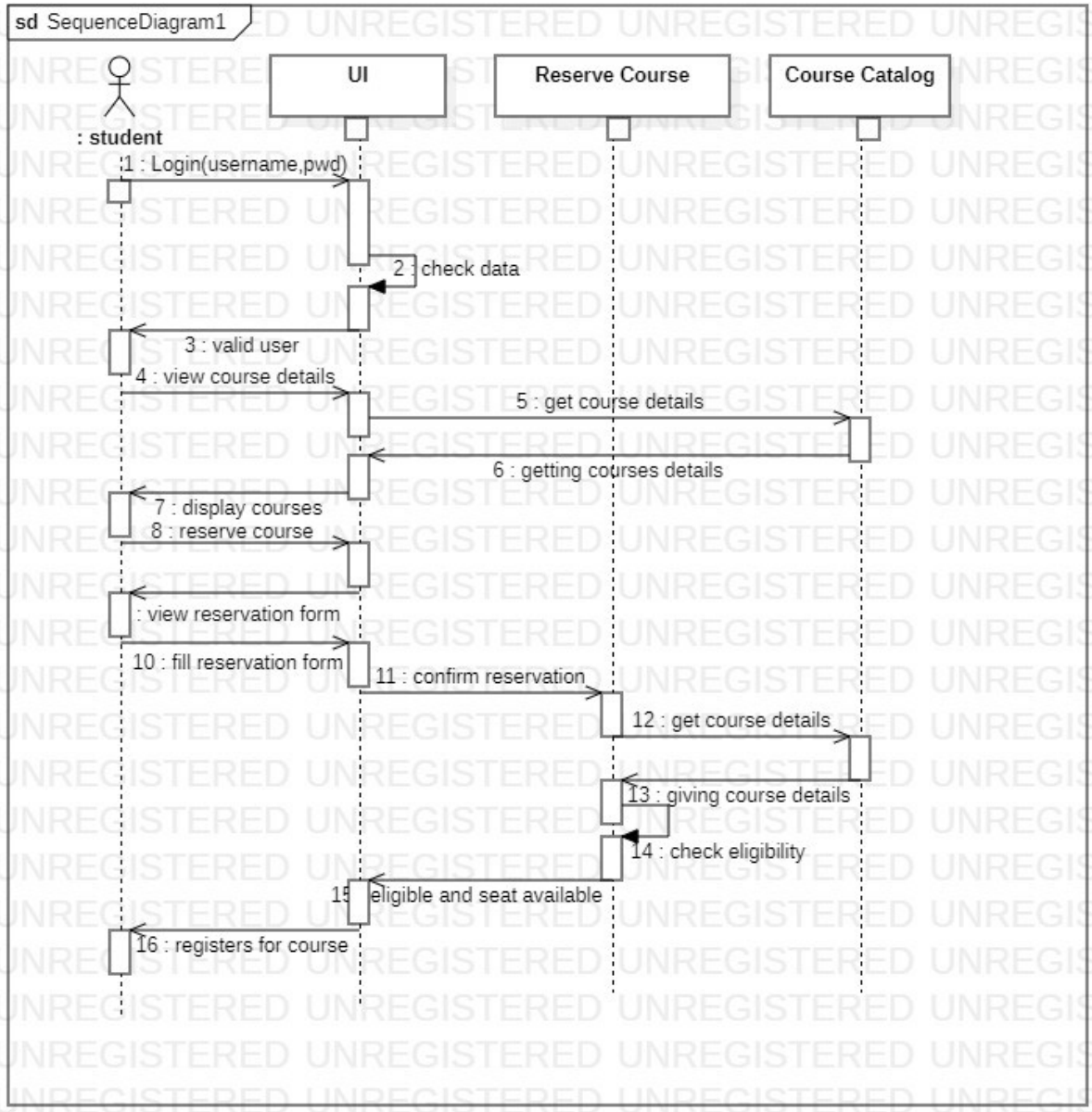
4.2 Use Case Diagram



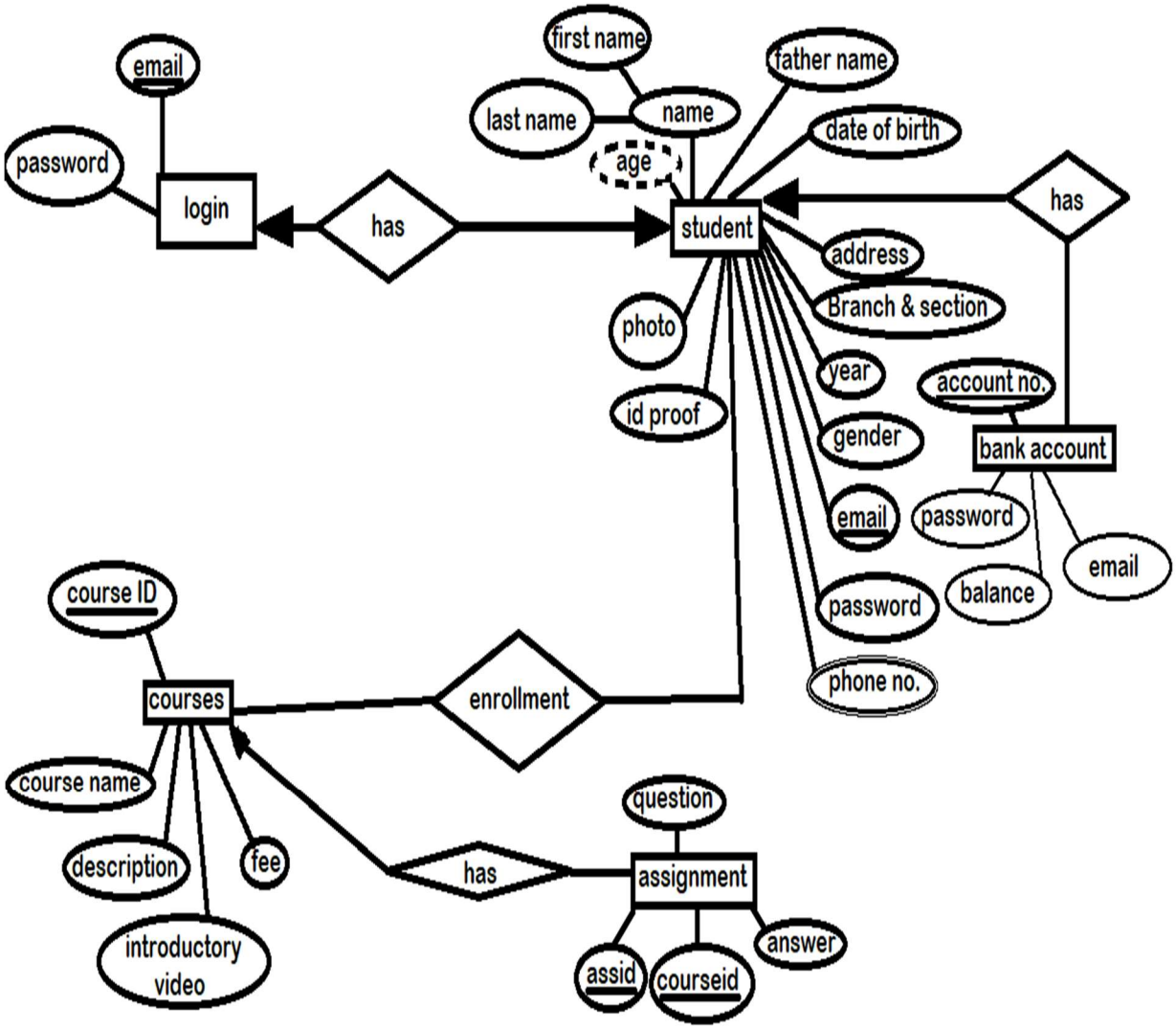
4.3 Activity Diagram



4.4 Sequence Diagram



4.5 ER Diagram



5. IMPLEMENTATION

5.1 Implementation Steps

Steps we used for implementing the project.

1. Develop an Algorithm and a Flowchart for all the features.
2. Develop both the front and back end code based on the Algorithms.
3. Create the Database and Tables required.
4. Populate the Database Tables at both static time and dynamic time.
5. Perform operations on Database when needed with the help of intermediate language.

5.2 Source code

5.2.1 Front End Source Code.

5.2.1.1 Home page before login.

```
<html>
<head>
<link rel="stylesheet" type="text/css" href="css.css">
<title>Student Portal</title>
</head>
<?php
 session_start();
 session_destroy();
 session_start();
 include("header.php");
 include("db_connect.php");
?>
<body >
<form method="post" action="validate.php">
<div class="arrange-horizontally">
<div class="events">
<fieldset ><center>
<img src="l.png"  height="100%" width="100%"></center><br><br><br><br>
</fieldset >
</div>

<div class="grid-container" align="left" style="max-height:30%">

<fieldset >
 <center><img src="log.png"  height="10%" width="20%"></center>
 <center><big>Log in</big></center><br>

   <label for="Email">Email</label>
   <input type="text" name="email"  placeholder="Your Email.." required>
   <label for="password">Password</label>
   <input type="password" name="password" placeholder="Your password.." required>


   <a href="#">Forgot password</a>
   ------<a href="reg.php"> register</a>
```

5.2.1.2 Home page after login.

```
<html>
<head>
<link rel="stylesheet" type="text/css" href="css.css">
<title>Main Page</title>
</head>
<?php
 session_start();
 include("headerin.php");
 include("db_connect.php");
?>
<body bgcolor="black">
<form method="post" action="#">
<div class="arrange-horizontally">
<div class="events" >
<fieldset >
Welcome back!
</fieldset >
</div>
<div class="grid-container" align="left" style="max-height:20%">
<fieldset>
<?php
include("db_connect.php");
if(isset($_REQUEST["logout"]))
{
                session_destroy();
                echo "<script> window.location.replace(\" /ngitproject/project/home.php \") </script> ";

}
$user_id = $_SESSION["id"];
$query2 = "select * from users where user_id=".$user_id.";" ;
$result2 = mysqli_query($con,$query2);
if(!($result2)){echo mysqli_error($con);}
$num_rows2 = mysqli_num_rows($result2);
//echo $num_rows2;
echo "<style>
.container {
   position: relative;
   width: 70%;
                background-color:white;
}

.image {
  opacity: 1;
  display: block;
  width: 100%;
  height: auto;
  transition: .5s ease;
  backface-visibility: hidden;
}


.middle {
  transition: .5s ease;
  opacity: 0;
  position: absolute;
  top: 50%;
  left: 50%;
  transform: translate(-50%, -50%);
  -ms-transform: translate(-50%, -50%);
  text-align: center;
     width: 70%;
                background-color:white;
}

.container:hover .image {
  opacity: 0.3;
`
```

5.2.1.3 Registration page.

```
<!doctype.html>
<html>
<head>
<link rel="stylesheet" type="text/css" href="register.css">
</head>
<body>
<?php
//session_start();
include("header.php");
include("db_connect.php");
 ?>
<form method="post" action="registerval.php" enctype="multipart/form-data" name="reg" >
 <div class="container" align="center" >
 <fieldset>
  <h1>Register</h1>
  <p>Please fill in this form to create an account.</p>
  <hr>
 <label for="fname"><b>First name</b></label><br>
  <input type="text" placeholder="Enter first name" name="fname" required><br>

 <label for="lname"><b>Last name</b></label><br>
  <input type="text" placeholder="Enter last name" name="lname" required>
            <br>

            <label for="father_name"><b>father name</b></label><br>
 <input type="text" placeholder="Enter father name" name="father_name" required>
            <br>

            <label for="dob"><b>Date of Birth</b></label><br>
 <input type="date" placeholder="Enter your date of birth" name="dob" required>
            <br>

            <label for="age"><b>age</b></label><br>
 <input type="number" placeholder="Enter your age" name="age" maxlength="2" required>
            <br>

            <label for="rollno"><b>Roll Number</b></label><br>
 <input type="number" placeholder="Enter Roll Number" name="rollno" maxlength="12" required>
            <br>
            <label for="address"><b>Address</b></label><br>
            <div class="add">
            <input type="text" placeholder="Enter address" name="address" required>
            <br>
            </div>

            <label> <b> Branch&Section </b></label><br>
 <div class="pin" >
              <select name="Section">
              <option value="--Section--" >--Section--</option>
              <option class="lt" value="CSE-A">CSE-A</option>
            <option class="lt" value="CSE-B">CSE-B</option>
                 <option class="lt" value="CSE-C">CSE-C</option>
            <option class="lt" value="IT-A">IT-A</option>
       <option class="lt" value="IT-B">IT-B</option>
    </select>
 </div>

<label> <b> Year </b></label><br>
```

5.2.1.4 Profile page.

```
<html>
<head>
<link rel="stylesheet" type="text/css" href="css.css">
<title>Profile</title>
</head>
<?php
 session_start();
 include("headerin.php");
 include("db_connect.php");
?>
<body bgcolor="black">
<form method="post" action="upd.php">
<fieldset>
<?php

include("db_connect.php");
if(isset($_REQUEST["logout"]))
{
		session_destroy();
		echo "<script> window.location.replace(\" /ngitproject/project/home.php \") </script> ";

}
$user_id = $_SESSION["id"];
$query2 = "select * from users where user_id=".$user_id.";" ;
$result2 = mysqli_query($con,$query2);
if(!($result2)){echo mysqli_error($con);}
$num_rows2 = mysqli_num_rows($result2);



//---------------


//---------------

if($num_rows2 >0)
{
$row2 = mysqli_fetch_assoc($result2);
echo "Details:<br><br>";
echo "First Name:".$row2["user_fname"]."  <br>";
echo "Last Name:".$row2["user_lname"]."  <br>";
echo "Father Name:".$row2["father_name"]."  <br>";
echo "Year of Birth:".$row2["dob"]."  <br>";
echo "Age:".$row2["age"]."  <br>";
echo "Address:".$row2["address"]."  <br>";
echo "Course Year:".$row2["pin_year"]."  <br>";
echo "Branch:".$row2["pin_branch"]."  <br>";
echo "Roll Number:".$row2["pin_num"]."  <br>";
echo "Email:".$row2["user_email"]."  <br>";
echo "Password:".$row2["password"]."  <br>";
echo "Gender:".$row2["user_gender"]."  <br>";
echo "Phone:".$row2["user_phone"]."  <br>";

$_SESSION["fn"]=$row2["user_fname"];
$_SESSION["ln"]=$row2["user_lname"];
$_SESSION["fan"]=$row2["father_name"];
$_SESSION["year"]=$row2["pin_year"];
$_SESSION["branch"]=$row2["pin_branch"];
```

5.2.1.5 Courses page.

```
<html>
<head>
<link rel="stylesheet" type="text/css" href="css.css">
<title>Courses</title>
</head>
<?php
 session_start();
 include("headerin.php");
 include("db_connect.php");
 $carray=array();
 //
 //
 //

        //---------------------------------------!!!!!!!!!!!!!!!!!
        $query = "select *  from courses;" ;
                $result = mysqli_query($con,$query);
                $num_rows = mysqli_num_rows($result);

                if($num_rows >0)
                {
                        while($row = mysqli_fetch_assoc($result))
                        {
                                //----------------------

                                $query1 = "select *  from ".$row["course_id"]."_s;" ;
                                $result1 = mysqli_query($con,$query1);
                                $num_rows1 = mysqli_num_rows($result1);

                                if($num_rows1 >0)
                                {
                                        while($row2 = mysqli_fetch_assoc($result1))
                                        {
                                                if($row2["student_email"] == $_SESSION["semail"])
                                                {
                                                        array_push($carray,$row2["course_id"]);
                                                }
                                        }
                                }
                                //----------------------

                        }

                }
 /*
 foreach($carray as $bs)
        echo "<br>".$bs;
 */


 //
 //
 //
$query = "select *  from courses;" ;
                $result = mysqli_query($con,$query);
                $num_rows = mysqli_num_rows($result);

                if($num_rows >0)
```

5.2.1.6 Dashboard page.

```
<html>
<head>
<link rel="stylesheet" type="text/css" href="css.css">
<title>Courses</title>
</head>
<?php
 session_start();
 include("headerin.php");
 include("db_connect.php");
 ?>
 <body>
		Welcome to Dashboard!
		<?php


		$query2 = "select count from scc where email='".$_SESSION["semail"]."';" ;
$result2 = mysqli_query($con,$query2);
if(!($result2)){echo mysqli_error($con);}
$num_rows2 = mysqli_num_rows($result2);



//---------------


//---------------

if($num_rows2 >0)
{
$row2 = mysqli_fetch_assoc($result2);
if($row2["count"]<5)
{
		echo "<script>alert('You need to be enrolled in atleast 5 courses to access
dashboard');window.location.replace('/ngitproject/project/courses.php');</script>";
}
}


		//----------------------------------------!!!!!!!!!!!!!!!!!
		$query = "select *  from courses;" ;
			$result = mysqli_query($con,$query);
			$num_rows = mysqli_num_rows($result);

			if($num_rows >0)
			{
				echo "<table border='1'><tr><th>Course ID</th><th>Course Name</th><th>Status</th></tr>";
				while($row = mysqli_fetch_assoc($result))
				{
					//----------------------

					$query1 = "select *  from ".$row["course_id"]."_s;" ;
					$result1 = mysqli_query($con,$query1);
					$num_rows1 = mysqli_num_rows($result1);

					if($num_rows1 >0)
					{
						while($row2 = mysqli_fetch_assoc($result1))
						{
```

5.2.1.7 Fee Payment page.

```
<?php
echo"<html>
<head>

<title>Main Page</title>
</head>";

 session_start();
 include("db_connect.php");


$amt=$_SESSION["ssfee"];
$_SESSION["amount"]=$amt;
echo"
<html>
<head>
<link rel='stylesheet' type='text/css' href='pay.css'>
<title>Student Portal</title>
</head>
<body>
<form name='f1' method='post' action='payvalid.php'>
<font size='4'>
<div class='split left'>
		<div class='centered'>
		Enter account number:<br><br>
		Enter password:<br><br>
		Amount:<br><br><br><br>
		<label id='l1' style=\"display:none\">This Process can't be undo,do you like to proceed:</label><br><br><br>
		</div>
		</div>
		<div class='split right'>
		<div class='centered'>
		<input type='number' name='acc' id='acc1' placeholder='Enter 0-9 10 digit number'required><br><br>
		<input type='password' name='password' id='p1' placeholder='Enter atleast 6 characters' required><br><br>
		<input type='number' name='am1' value=".$amt." disabled><br><br>
		<input type='button' value='Proceeed for payment'name='valid' onclick='checkdetails()' id='b2'><br><br>
		<input type='submit' value='Yes,Make Payment!' name='pay' id='b1' style=\"display:none\" disabled>
		</div>
</div>
</font>
</form>
</body>
<script>
var flag=0;
function checkdetails(){
		var ac=document.f1.acc.value;
		var p=document.f1.password.value;
		if(ac.length!=10 || ac<0){
			alert('Enter valid account number');
		}
		else if(p.length<6){
			alert('Eneter valid password');
		}
		else{
			var a1=document.getElementById('acc1').readOnly=true;
	var p=document.getElementById('p1').readOnly=true;
			var x2=document.getElementById('b2');
			x2.style.display='none';
```

5.2.1.8 Assignment

```
<?php
session_start();
include("headerin.php");
include("db_connect.php");
$cid=$_GET["cid"];
$_SESSION["scid"]=$cid;
$student_id=$_SESSION["semail"];
$connect= new MongoDB\Driver\Manager("mongodb://localhost:27017");
$qry = new MongoDB\Driver\Query([]);
$rows=$connect->executeQuery("account.courseAssignments",$qry);
$qryc = new MongoDB\Driver\Query([]);
$rowsc=$connect->executeQuery("account.asscount",$qryc);
$c=0;
foreach($rowsc as $rc){
  if($cid==$rc->cid && $rc->user_email==$student_id){
    $c=$rc->assc;
    break;
  }
}
$c=$c+1;
echo"
<html>
  <head>
    <title> assigments</title>
  </head>
  <body>
    <form method='POST' action='hiddenAns.php' enctype='multipart/form-data' name='reg' >
      <table border='10'><tr><th>assignments</th><th>questions</th><th>upload</th><th>score</th></tr>";
      foreach($rows as $r){
        if($r->cid==$cid){
          if((int)substr($r->assid,6)<$c){
            echo"<tr>
              <td>
                assignment-".substr($r->assid,strlen($r->assid)-1)."
              </td>
              <td>
                $r->questions
              </td>
              <td>
                you have already upload file
              </td>
              <td>";
              $qrys = new MongoDB\Driver\Query([]);
              $rowss=$connect->executeQuery("account.score",$qrys);
              foreach($rowss as $rs){
                if($rs->id==$r->assid.$student_id){
                  echo $rs->score;
                  echo"</br>";
                }
              }
              echo "</td>
            </tr>";
          }
          if((int)substr($r->assid,6)==$c){
            $_SESSION["sassid"]=$r->assid;
            echo"<tr>
              <td>
                assignment-".substr($r->assid,strlen($r->assid)-1)."
```

5.2.2 Back End Source Code.

5.2.2.1 Login

```
<html>
<body>

<?php

#validating credentials
session_start();
include("db_connect.php");

//$_SESSION["val"];
$email = $_POST["email"];
//$pass = hash('md5',$_POST["password"]);
$pass = $_POST["password"];
$_SESSION["semail"]=$email;

$user="select * from  users where user_email='".$email."' and password='".$pass."'";
$authentic = mysqli_query($con,$user);
if(mysqli_num_rows($authentic) == 1)
{

		$row = mysqli_fetch_assoc($authentic);
		if($row["user_id"] >= 0)
		{
		//		echo "<iframe href=\" \" height=\"100%\"  width=\"100%\" ></iframe>";
		$_SESSION["id"] = $row["user_id"];
		$_SESSION["val"] = 1;
		$_SESSION["role"] = $row["role_id"];
		$u_name = $row["user_fname"].$row["user_lname"];
		echo "<script>window.location.replace(\"/ngitproject/project/homein.php \");</script>";

		}


		echo "<script> alert('you will be logged out on closing this window') </script>";
}
else{ echo "<script>alert('Username or Password incorrect'); window.location.replace('/ngitproject/project/home.php') </script>"; }
#-----------------------------------------------



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

5.2.2.2 Registration

```
<?php
include("db_connect.php");
//Capturing post requests
$fname = htmlentities((mysqli_real_escape_string($con, $_POST["fname"])));
$lname = htmlentities((mysqli_real_escape_string($con,  $_POST["lname"])));
$email =  htmlentities((mysqli_real_escape_string($con, $_POST["email"])));
$gender = htmlentities((mysqli_real_escape_string($con,  $_POST["gender"])));
$father_name = htmlentities((mysqli_real_escape_string($con,  $_POST["father_name"])));
$dob = htmlentities((mysqli_real_escape_string($con,  $_POST["dob"])));
//$p_h = $_POST["psw"];
//$pass = hash('md5',$p_h);
$pass=$_POST["psw"];
echo $pass;
$address = htmlentities((mysqli_real_escape_string($con,  $_POST["address"])));
$age = htmlentities((mysqli_real_escape_string($con,  $_POST["age"])));
$phn =  htmlentities((mysqli_real_escape_string($con, $_POST["phn"])));
$roll =  htmlentities((mysqli_real_escape_string($con, $_POST["rollno"])));
$section = htmlentities((mysqli_real_escape_string($con,  $_POST["Section"])));
$year =  htmlentities((mysqli_real_escape_string($con, $_POST["Year"])));
//Image upload
//memo


//-----------------------------------------------------------------------------------
$target_dir = "media/users/memo/";
$filename = strtolower(basename($_FILES["memo"]["name"]));
$imageFileType = strtolower(pathinfo($filename,PATHINFO_EXTENSION));
$target_file1 = $target_dir . uniqid().".".$imageFileType;
$uploadOk = 1;
// Check if image file is a actual image or fake image

if(isset($_POST["submit"]) && isset($_FILES["memo"])) {
   $check = getimagesize($_FILES["memo"]['tmp_name']);
   if($check !== false) {
      echo "File is an image - " . $check["mime"] . ".";
      $uploadOk = 1;
   } else {
      echo "File is not an image.";
      $uploadOk = 0;
   }
}else{
            $uploadOk = 0;
}
// Allow certain file formats
if($imageFileType != "jpg" && $imageFileType != "png" && $imageFileType != "jpeg") {
   echo "Sorry, only JPG, JPEG, PNG & GIF files are allowed.";
   $uploadOk = 0;
}
// Check if $uploadOk is set to 0 by an error
if ($uploadOk == 0) {
   echo "Sorry, your file was not uploaded. Make sure image is below 5mb";
// if everything is ok, try to upload file
} else {
   if (move_uploaded_file($_FILES["memo"]["tmp_name"], $target_file1)) {
      echo "The file ". $target_file1. " has been uploaded.";
                  $memo = $target_file1;
            } else {
      echo "Sorry, there was an error uploading your file.";
   `
```

5.2.2.3 Profile Details and Edit

```
<?php
include("db_connect.php");
session_start();
//Capturing post requests
$fname = htmlentities((mysqli_real_escape_string($con, $_POST["fname"])));
$lname = htmlentities((mysqli_real_escape_string($con,  $_POST["lname"])));
$father_name = htmlentities((mysqli_real_escape_string($con,  $_POST["father_name"])));

$address = htmlentities((mysqli_real_escape_string($con,  $_POST["address"])));
$age = htmlentities((mysqli_real_escape_string($con,  $_POST["age"])));
$phn =  htmlentities((mysqli_real_escape_string($con, $_POST["phn"])));
$roll =  htmlentities((mysqli_real_escape_string($con, $_POST["rollno"])));
$section = htmlentities((mysqli_real_escape_string($con,  $_POST["Section"])));
$year =  htmlentities((mysqli_real_escape_string($con, $_POST["Year"])));

//database entry
$query = "update users set user_fname= '".$fname."', user_lname= '".$lname."',father_name= '".$father_name."',address= '".$address."',age=
'".$age."',pin_year= '".$year."',pin_branch= '".$section."',pin_num= '".$roll."',user_phone= '".$phn."' where user_email='".$_SESSION["semail"]."'";
if(!(mysqli_query($con,$query)))
{
        $err = mysqli_error($con);
        echo $err;
        //echo strcmp($err,'Duplicate entry');
        if(strcmp($err,'Duplicate entry'))
        {
                echo "<script>alert('Error!');window.location.replace('/ngitproject/project/upd.php.php');</script>";

        }
        else
        {
                echo mysqli_error($con);

        }

}
else{
        $u_name = $fname." ".$lname;
        //mailTo(html_entity_decode($email),'new_user',$u_name);
        echo "<script>alert('Updated Successfully');window.location.replace('/ngitproject/project/upd.php');</script>";
}




?>
```

5.2.2.4 Courses

```
<?php
include("db_connect.php");
session_start();
if($_SESSION["into"]!=null)
{


        $query2 = "select count from scc where email='".$_SESSION["semail"]."';" ;
$result2 = mysqli_query($con,$query2);
if(!($result2)){echo mysqli_error($con);}
$num_rows2 = mysqli_num_rows($result2);

if($num_rows2 >0)
{
$row2 = mysqli_fetch_assoc($result2);

$_SESSION["counted"]=$row2["count"];
if($row2["count"]==8)
{
        echo "<script>alert('You cannot enrol in more than 8 courses!');window.location.replace('/ngitproject/project/dash.php');</script>";
}

else
{




$query2 = "select fee from courses where course_id='".$_SESSION["into"]."';" ;
$result2 = mysqli_query($con,$query2);
if(!($result2)){echo mysqli_error($con);}
$num_rows2 = mysqli_num_rows($result2);

if($num_rows2 >0)
{
$row2 = mysqli_fetch_assoc($result2);
$_SESSION["ssfee"]=$row2["fee"];
}


echo "<script>window.location.replace('/ngitproject/project/makepay.php')</script>";

}

}

}

?>
```

5.2.2.5 Dashboard

```
<html>
<head>
<link rel="stylesheet" type="text/css" href="css.css">
<title>Courses</title>
</head>
<?php
 session_start();
 include("headerin.php");
 include("db_connect.php");
 ?>
 <body>
		Welcome to Dashboard!
		<?php


		$query2 = "select count from scc where email='".$_SESSION["semail"]."';" ;
$result2 = mysqli_query($con,$query2);
if(!($result2)){echo mysqli_error($con);}
$num_rows2 = mysqli_num_rows($result2);



//---------------


//---------------

if($num_rows2 >0)
{
$row2 = mysqli_fetch_assoc($result2);
if($row2["count"]<5)
{
		echo "<script>alert('You need to be enrolled in atleast 5 courses to access
dashboard');window.location.replace('/ngitproject/project/courses.php');</script>";
}
}


		//----------------------------------------!!!!!!!!!!!!!!!!!
		$query = "select *  from courses;" ;
			$result = mysqli_query($con,$query);
			$num_rows = mysqli_num_rows($result);

			if($num_rows >0)
			{
				echo "<table border='1'><tr><th>Course ID</th><th>Course Name</th><th>Status</th></tr>";
				while($row = mysqli_fetch_assoc($result))
				{
					//----------------------

					$query1 = "select *  from ".$row["course_id"]."_s;" ;
					$result1 = mysqli_query($con,$query1);
					$num_rows1 = mysqli_num_rows($result1);

					if($num_rows1 >0)
					{
						while($row2 = mysqli_fetch_assoc($result1))
						{
```

5.2.2.6 Fee payment gateway

```
<?php
//require 'vendor/autoload.php';
SESSION_start();
 include("db_connect.php");
//$client=new MongoDB\Client;
//$db=$client->account;
$mdb = new MongoDB\Driver\Manager("mongodb://localhost:27017");
$qry = new MongoDB\Driver\Query([]);
$bulk = new MongoDB\Driver\BulkWrite();
//$updateRec = new MongoDB\Driver\BulkWrite();
$rows=$mdb->executeQuery("account.paydetails",$qry);
$accn=$_POST["acc"];
$pass=$_POST["password"];
//$collection=(new MongoDB\Client)->account->paydetails;
$a=$_SESSION["amount"];
//echo "$accn<br>";
//echo "$pass<br>";
echo "$a<br>";
$flag=0;
$_SESSION["acn1"]=$accn;
foreach ($rows as $row){
        //echo $row->acc_number."<br>";
        if($row->acc_number==$accn){
                echo "Account number exist<br>";
                if($row->password==$pass){
                        echo "Account password is correct<br>";
                        if($row->user_email!=$_SESSION["semail"])
                        {
                                echo "<script>alert(\"This account number does not belongs to you
".$_SESSION["semail"]."\");window.location.href=\"courses.php\"</script>";
                        }
                        else{
                        if($row->balance>=$a){
                                $flag=1;
                                //$updateResult=$collection->updateOne(['acc_number'=>$accn],['$set'=>['balance'=>15000]]);
                                $bal=($row->balance)-($a);
                                $bulk->update(['acc_number'=>$row->acc_number],['$set'=>['balance'=>$bal]],['multi'=>true]);
                                $result = $mdb->executeBulkWrite('account.paydetails', $bulk);
                                //include("");
                                        $query = "insert into ".$_SESSION["into"]."_s (course_id,student_email)
values('".$_SESSION["into"]."','".$_SESSION["semail"]."')";
                                        if(!(mysqli_query($con,$query)))
                                        {
                                                $err = mysqli_error($con);
                                                echo $err;
                                                //echo strcmp($err,'Duplicate entry');
                                                if(strcmp($err,'Duplicate entry'))
                                                {
                                                        echo "<script>alert('Seems you have already enrolled in this
course');window.location.replace('/ngitproject/project/homein.php');</script>";

                                                }
                                                else
                                                {
                                                        echo mysqli_error($con);

                                                }
```

5.2.2.7 Assignment

```
<?php
   session_start();
   include("headerin.php");
   include("db_connect.php");
   $target_dir = "media/assignments/";
   $filename = strtolower(basename($_FILES["upload"]["name"]));
   $imageFileType = strtolower(pathinfo($filename,PATHINFO_EXTENSION));
   if($imageFileType!="docx" || $imageFileType!="pdf"){
      echo "<script>alert(\"assignment type should be (PDF).pdf or (WORD).docx\");window.location.href=\"dash.php\"</script>";
   }
   $target_file = $target_dir .$_SESSION["sassid"].$_SESSION["semail"]."."$imageFileType;
   // Check if image file is a actual image or fake image
   if (move_uploaded_file($_FILES["upload"]["tmp_name"], $target_file)) {
      echo "The file ".$_SESSION["sassid"].$_SESSION["semail"]. " has been uploaded.";
      $connect= new MongoDB\Driver\Manager("mongodb://localhost:27017");
      $qry = new MongoDB\Driver\Query([]);
      $rows=$connect->executeQuery("account.lass",$qry);
      $bulk = new MongoDB\Driver\BulkWrite();
      $doc=array('cid'=>$_SESSION["scid"],'user_email'=>$_SESSION["semail"],'cassid'=>$_SESSION["sassid"]);
      $bulk->insert($doc);
      $res=$connect->executeBulkWrite('account.lass',$bulk);
      //---
      $qrys = new MongoDB\Driver\Query([]);
      $rowss=$connect->executeQuery("account.score",$qrys);
      $bulks = new MongoDB\Driver\BulkWrite();
      $docs=array("id"=>$_SESSION["sassid"].$_SESSION["semail"],"score"=>0);
      $bulks->insert($docs);
      $ress=$connect->executeBulkWrite('account.score',$bulks);
      echo "<script>alert(\"assignment uploaded sucessfully\");window.location.href=\"dash.php\"</script>";
   }
   else {
      echo "Sorry, there was an error uploading your file.";
   }
?>
```

6. TESTING AND VALIDATION

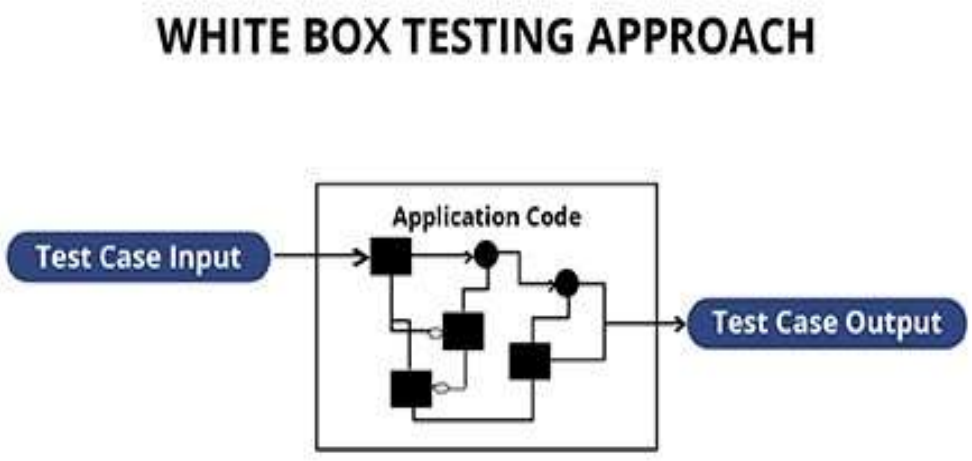
6.1 Testing Types

The box approach:

Software testing methods are traditionally divided into white and black-box testing. These two approaches are used to describe the point of view that a test engineer takes when designing test cases.

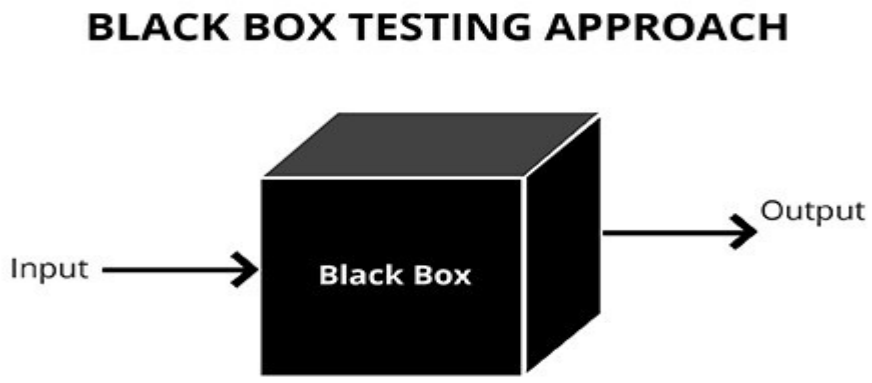
White-Box-Testing:

White-box testing (also known as clear box testing, glass box testing, and transparent box testing and structure testing) tests internal structures or working of a program. In white box testing an internal perspective (view) of the system, as well as programming skills, are used to design test cases. While white-box testing can be applied at the unit, integration and system level of the software testing process, it is usually done at the unit level.



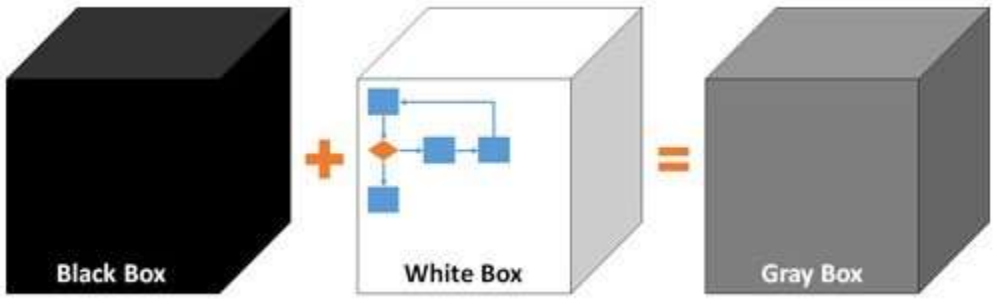
Black-box-Testing:

Black-box testing treats the software as a “black box”, examining functionality without any knowledge of internal implementation. The tester is only aware of what the software is supposed to do, not how it does it.



Grey-Box testing:

Grey-box testing involves having knowledge of internal data structures and algorithms for purpose of designing tests, while executing those tests at the user, or black-box level. The tester is not required to have full access to the software’s sources code.



Unit testing:

Unit testing, also known as component testing, it verify the functionality of a specific section of code, usually at the function level. In an object-oriented environment, this Is usually at the class level, and the minimal unit test include the constructor and destructors.

Integration testing:

Integration testing works to expose defects in the interface and interaction between integration components (modules).

System testing:

System testing, or end-to-end testing a completely integrated system to verify that it meets its requirements.

Alpha testing:

Alpha testing, or end-to-end testing, tests a completely integrated system to verify that it meet its requirements.

Beta testing:

Beta testing is the testing which is performed by the Customer's group.

Acceptance testing:

At last the system is delivered to the user for Acceptance testing.

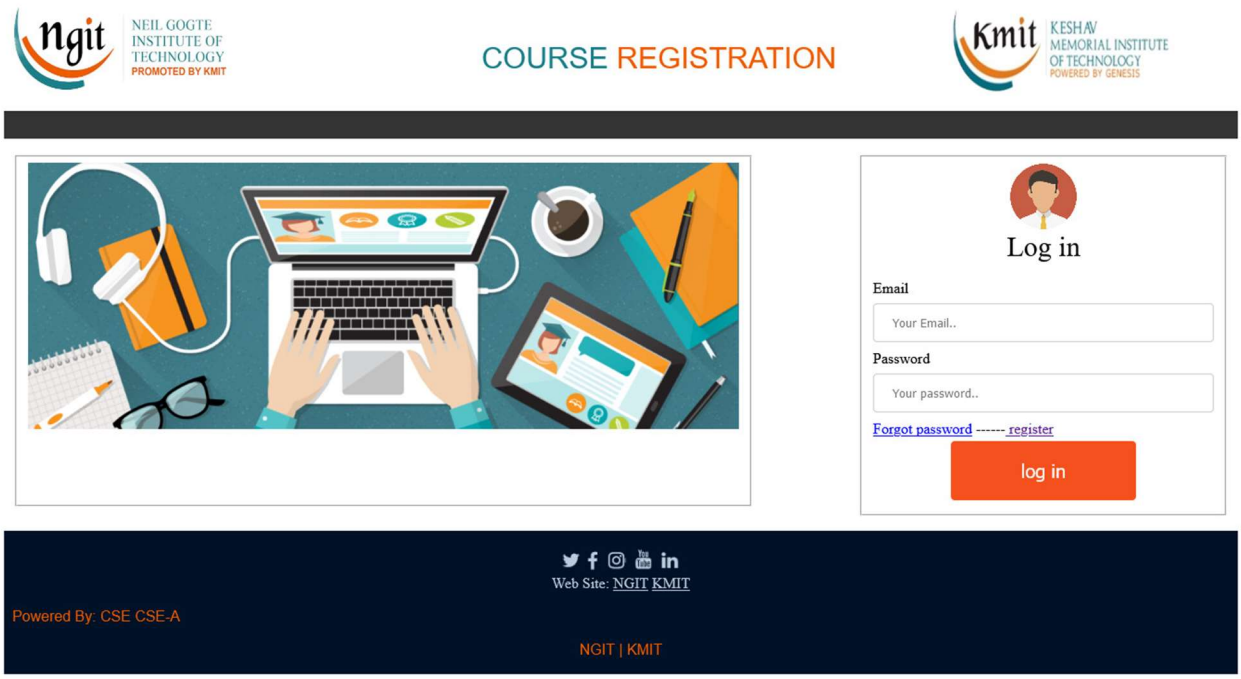
6.2 TEST CASES

The following techniques were used as test cases for our system.

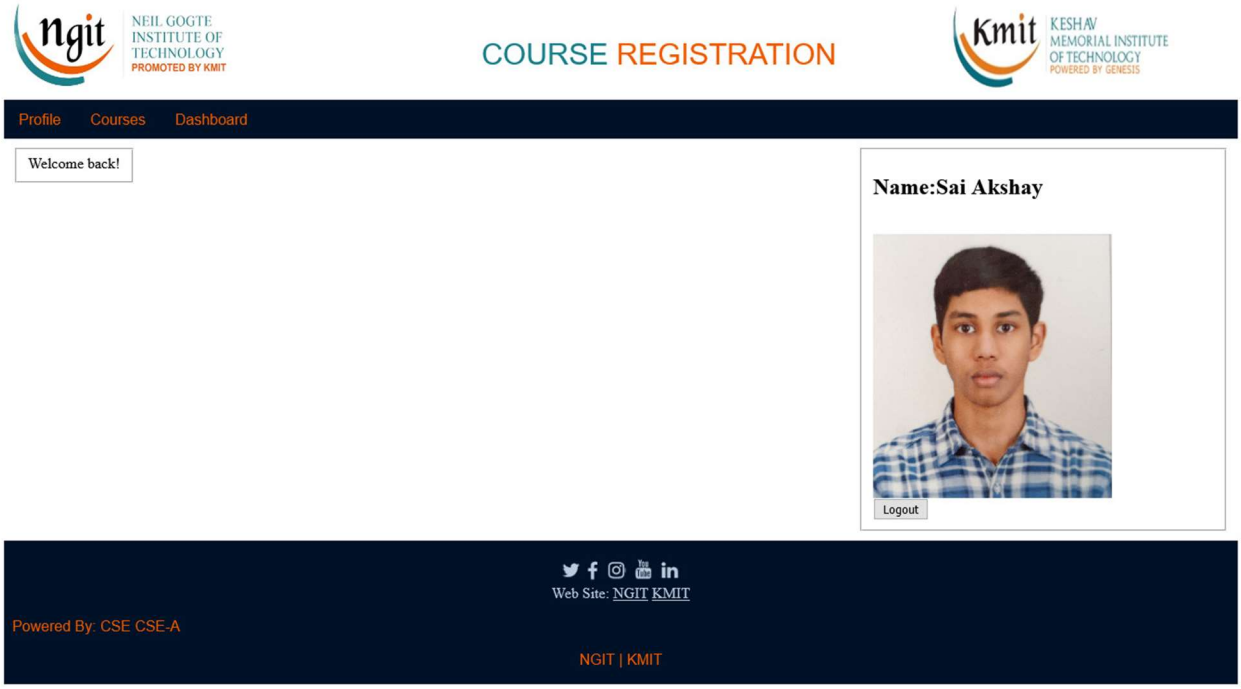
- Login with Correct Credentials.
- Login with wrong Credentials.
- Payment with Correct Credentials.
- Payment with wrong Credentials.
- Trying to enroll in more than 8 courses.
- Trying to access the dashboard without minimum number of enrolled courses.
- Phone number and Account number not more than 10 digits during registration.
- Trying to pay fee without an account number registered.
- Trying to pay fee with other students account.
- Trying to upload assignment with and without pdf or word format.
- Trying to register already registered account number.

6.3 Project Screenshots

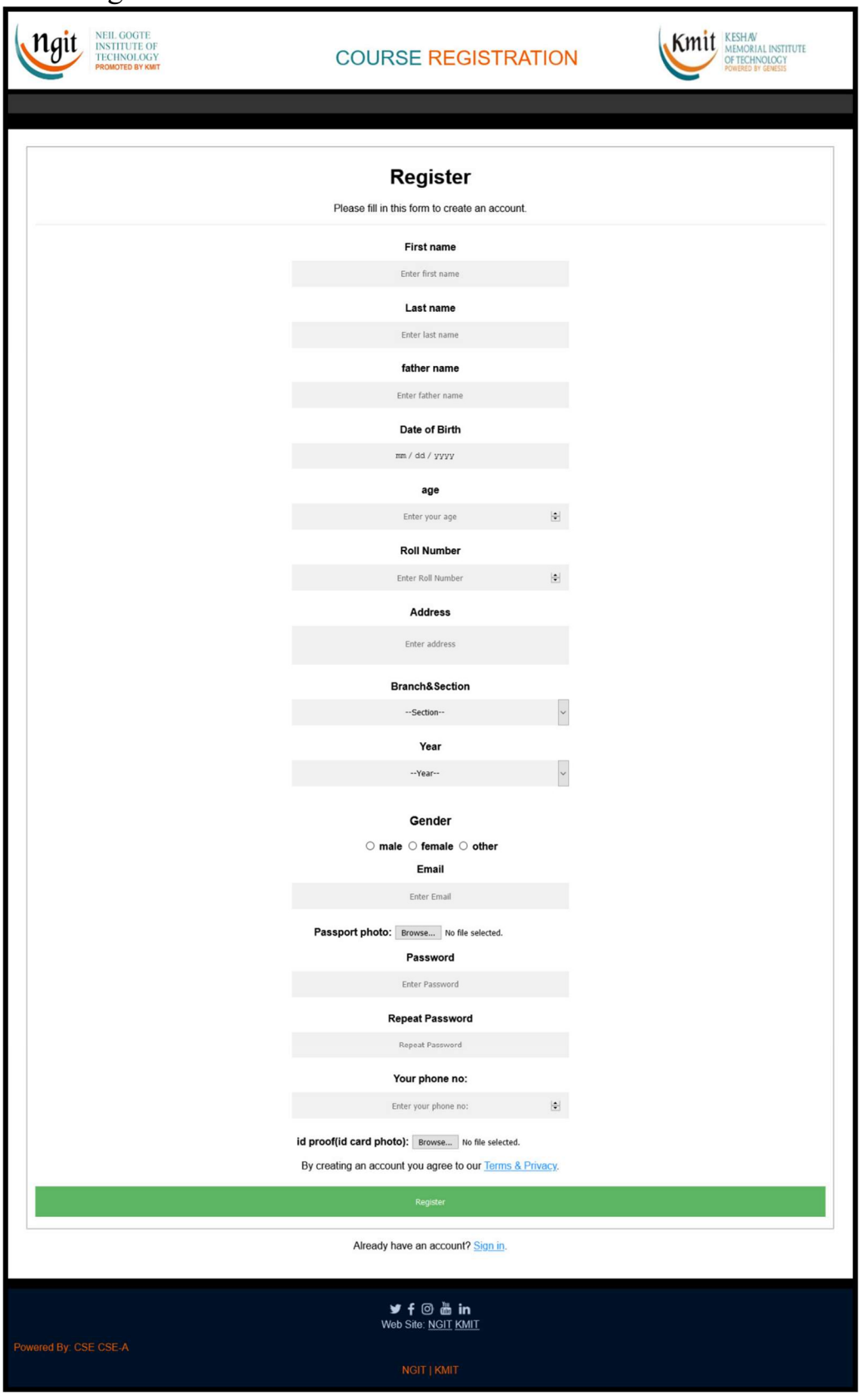
6.3.1 Home page before login



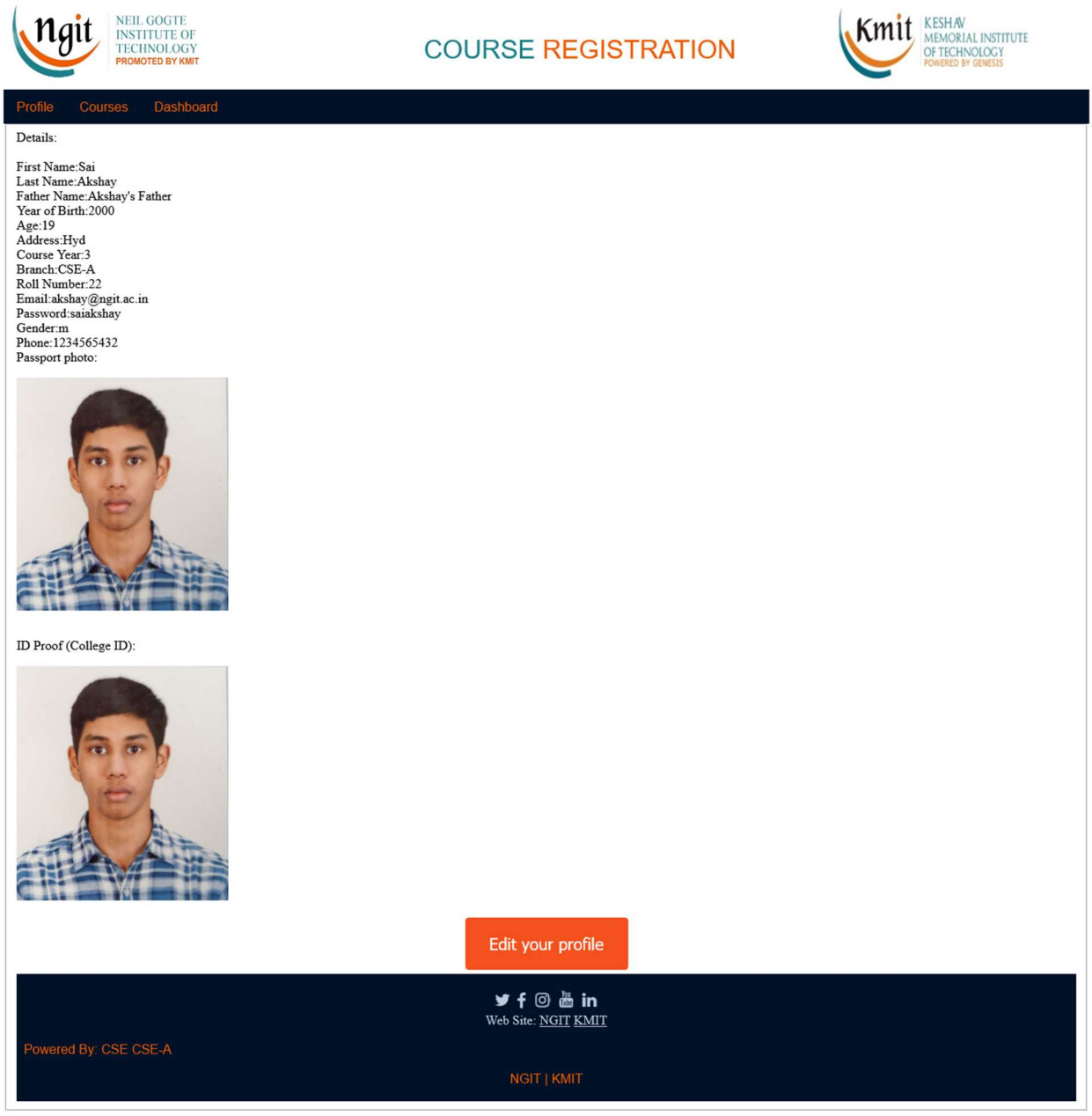
6.3.2 Home page after login



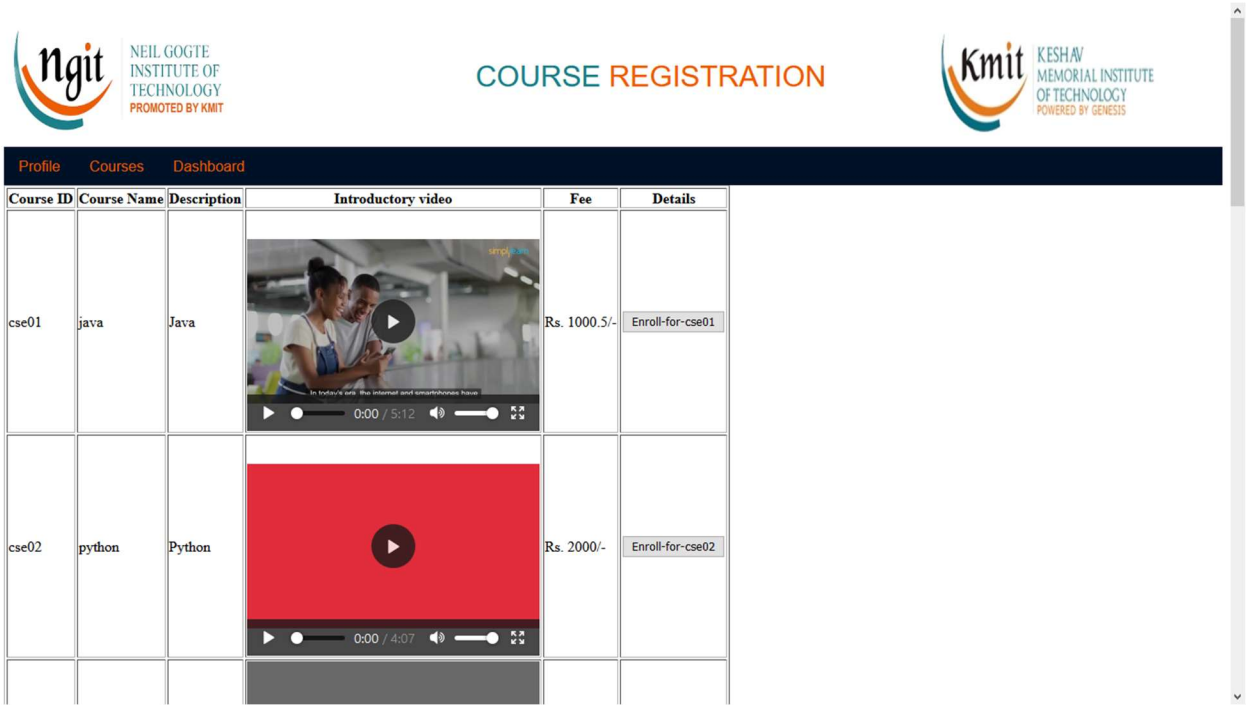
6.3.3 Registration Form



6.3.4 Profile page



6.3.5 Courses page

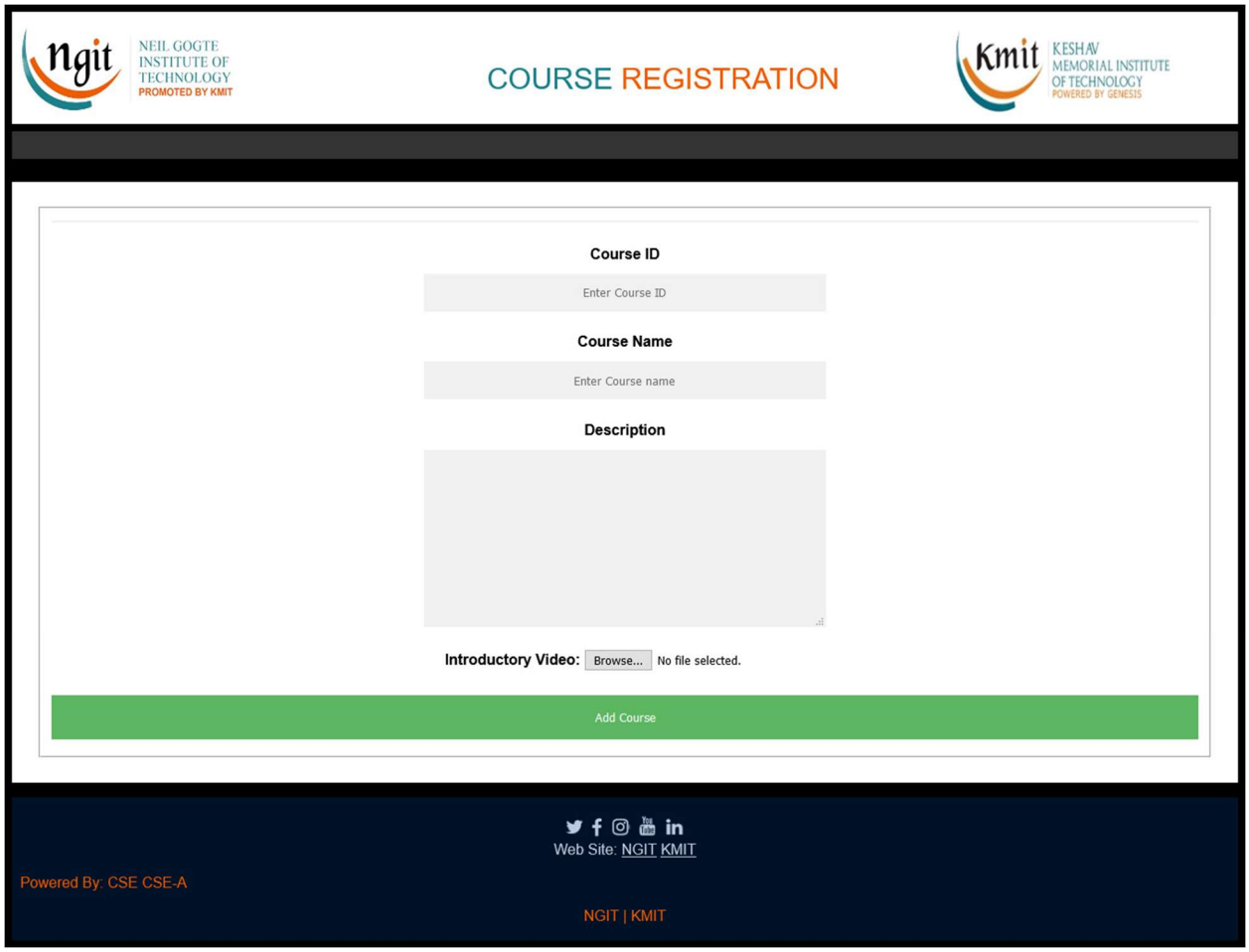


6.3.6 Dashboard

6.3.7 Resume Learning

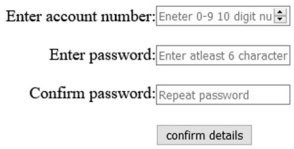
6.3.8 Assignments

6.3.9 Adding course



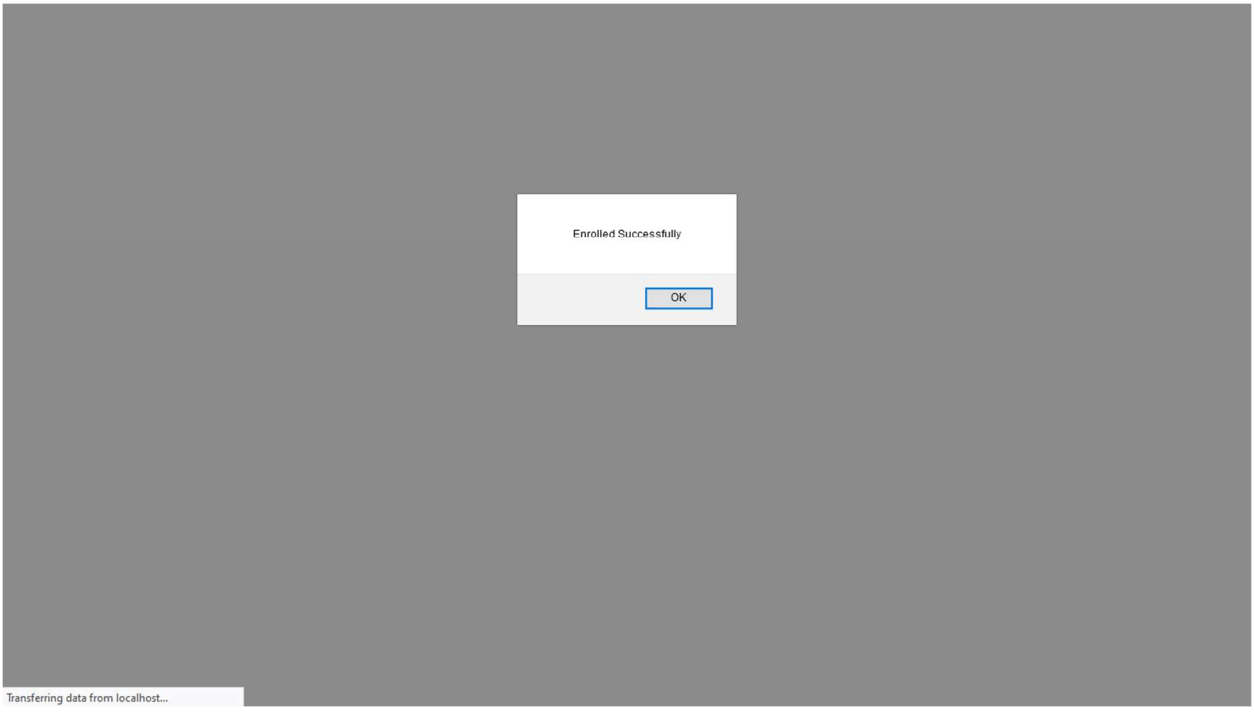
6.3.10 Payment Gateway

6.3.11 Account Registration

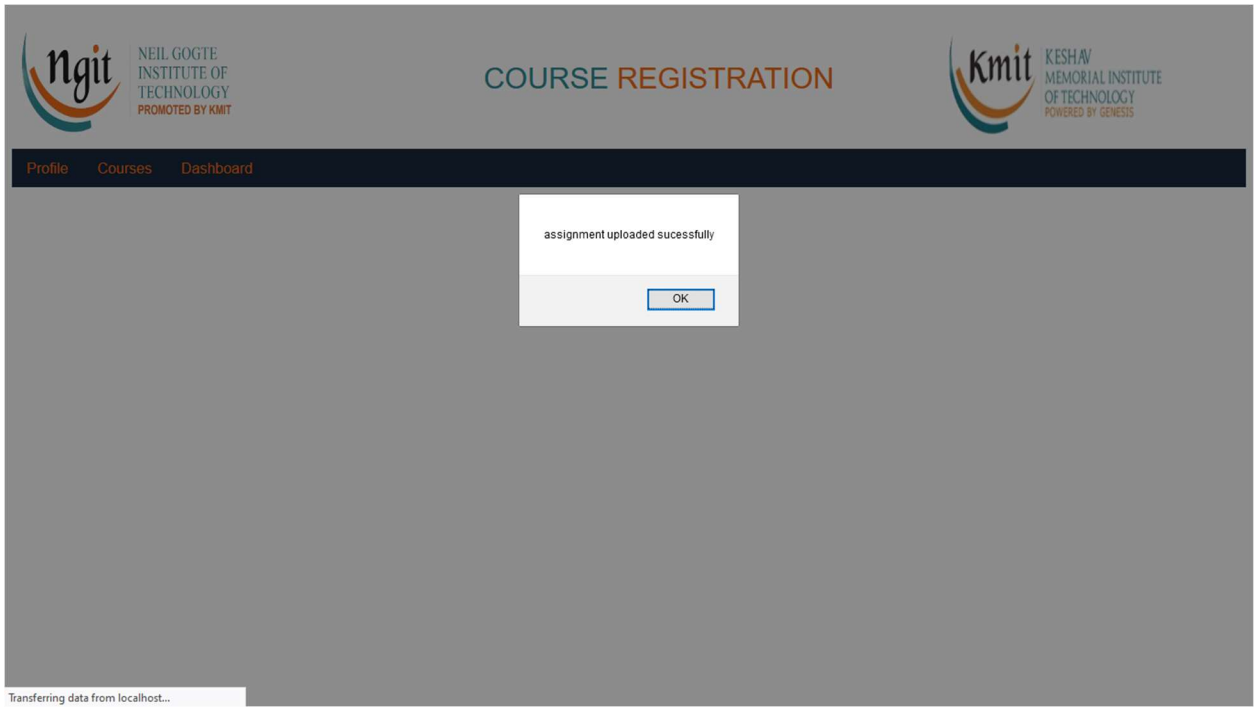


6.4 Results

6.4.1 Student enrolled into a course successfully



6.4.2 Student course assignment submitted successfully



7. CONCLUSION AND FUTURE ENHANCEMENT

7.1 Conclusion

The overall conclusion of this Project is to provide the Students to learn new technologies based on their desire and their interest by providing them the flexibility in time to complete the course in a reasonable price with the best qualified teaching staff. They will also have to submit assignments and give exam to get much experience in that course. They will be provided with the Certificate after the completion of the course which will help them in their future career.

At the end of the day, a student can watch the course videos and do his assignments assigned to him and can complete the course which makes him to learn a new technology.

7.2 Future Enhancement

In the future, the modifications and updates can be done for better enhancement of the system by providing the interaction between the student and the instructor, by providing an Admin login view to manage the whole system with a GUI instead of writing up the code for everything, by providing the certificate on completion of the course, by providing additional class notes for the students to download and study, and providing the students with the downloadable software to execute their assignments, for their projects and to get hands on experience on the course/technology.

8. REFERENCES

The following are the sources which we have used as a reference for our project.

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