**Industry Oriented Mini Project**

On

# COURSE REGISTRATION PORTAL

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

**BACHELOR OF TECHNOLOGY**
**in**
**COMPUTER SCIENCE & ENGINEERING**
(Artificial Intelligence & Machine Learning)

**BY**


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**(Artificial Intelligence & Machine Learning)**

**BVRIT HYDERABAD**
**COLLEGE OF ENGINEERING FOR WOMEN**
**(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)**
**Accredited by NBA and NAAC with A Grade**
**Bachupally, Hyderabad – 500090**


**Dec, 2023**

# DECLARATION

We hereby declare that the work presented in this project entitled **"Course Registration Portal"** submitted towards completion of Project work in IV Year of B.Tech of CSE(AI&ML) at **BVRIT HYDERABAD College of Engineering for Women,** Hyderabad is an authentic record of our original work carried out under the guidance of **Dr. B. Lakshmi Praveena, Head of the Department, CSE(AI&ML)**

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# CERTIFICATE

This is to certify that the mini project entitled "**Course Registration Portal**" is a bonafide work carried out by **Ms. V. Jyothi (20WH1A6601), Ms. B. Kusuma (20WH1A6613), Ms. Y. Yasaswini (20WH1A6633), Ms. V. Namitha (20WH1A6635)** in partial fulfillment for the award of B. Tech degree in **Computer Science & Engineering (AI&ML)**, **BVRIT HYDERABAD College of Engineering for Women, Bachupally, Hyderabad**, affiliated to Jawaharlal Nehru Technological University Hyderabad, Hyderabad under my guidance and supervision. The results embodied in the project work have not been submitted to any other University or Institute for the award of any degree or diploma.

**Internal Guide**
**Dr. B. Lakshmi Praveena**
**Head of the Department, CSE(AI&ML)**

**Head of the Department**
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**Professor, CSE(AI&ML)**

**External Examiner**

# ACKNOWLEDGEMENT

We would like to express our sincere thanks to **Dr. K. V. N. Sunitha**, **Principal, BVRIT HYDERABAD College of Engineering for Women,** for her support by providing the working facilities in the college.

Our sincere thanks and gratitude to our **Dr. B. Lakshmi Praveena**, Professor & HoD Department of CSE (AI & ML), BVRIT HYDERABAD College of Engineering for Women for all the timely support and valuable suggestions during the period of our project. We are extremely thankful and indebted to her for the constant guidance, encouragement and moral support throughout the project as our internal guide.

Finally, we would like to thank our Mini Project Coordinator, all Faculty and Staff of CSE(AI&ML) department who helped us directly or indirectly. Last but not least, we wish to acknowledge our **Parents** and **Friends** for giving moral strength and constant encouragement.

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# ABSTRACT

In the realm of educational administration, the traditional paper-based course registration system poses challenges in terms of efficiency, accuracy, and accessibility. The "Course Registration Portal" project aims to streamline the academic registration process by providing a user-friendly web-based platform. This system allows students to easily browse and select courses, view their schedules, and manage their academic preferences. Admins can efficiently manage course offerings, monitor enrollment, and generate reports. The project leverages technology to enhance the overall registration experience for students, faculty, and administrators, offering a more convenient and error-free method for managing course enrollments. By transitioning from a paper-based system to an online platform, we seek to address the limitations of the current approach and foster a more efficient and user-friendly environment in educational institutions.

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# 1. INTRODUCTION

Course registration significantly shapes students' academic journeys. Traditionally, it involves manual processes with paper forms, queues, and potential errors. The need for a dynamic, automated, and accessible solution led to the digital course registration portal. Transitioning from paper to online reduces environmental impact and minimizes errors. The digital portal is intuitive, secure, and scalable, meeting diverse educational needs.

## 1.1 Problem statement:

The traditional paper-based course registration system in educational institutions is inefficient, error-prone, and lacks accessibility. This project aims to digitally transform the registration process, enhancing efficiency, accuracy, and user-friendliness for students, faculty, and administrators.

## 1.2 Objective:

**1.2.1 Efficiency Improvement:** The objective is to streamline the process, reducing the time and effort required for course enrollment and administrative tasks.

**1.2.2 Accuracy Enhancement:** The goal is to implement a digital registration system that mitigates the risk of errors, ensuring real-time updates and accurate data records.

**1.2.3 User-Friendly Environment:** The project seeks to design a user-friendly environment with clear instructions and guidance, improving the overall experience for users.

**1.2.4 Transition to Online Platform:** The transition from a paper-based to an online platform is a critical aspect of the project, requiring careful planning to minimize disruptions to current operations.

**1.2.5 Security and Data Integrity** The project will adhere to data protection regulations and industry best practices to address security concerns.

**1.2.6 Scalability and Adaptability:** The project aims to design a scalable and adaptable system that can accommodate an increasing number of users and adapt to future changes in educational policies and procedures.

## 1.3 Proposed system:

The proposed course registration portal provides a user-friendly digital platform, simplifying the enrollment process for students, faculty & administrators. Students can conveniently browse and register for courses using their own devices. Faculty get a streamlined interface for managing courses & monitoring enrollments. Administrators experience improved efficiency in handling registration data & addressing logistical issues. By eliminating paper forms, the portal enhances accessibility & reduces errors.

# 2. REQUIREMENTS

## 2.1 SOFTWARE AND HARDWARE REQUIREMENTS:

**Hardware Requirements:**

For Server:

1. Processor (CPU): A multi-core processor (e.g., Quad-core or higher) to handle concurrent requests efficiently.

2. Memory (RAM): At least 8 GB of RAM to ensure smooth operation, especially during peak usage.

3. Network: A reliable and high-speed internet connection to ensure responsiveness.

For Database Server:

1. Database System: MySQL, a relational database running on phpMyAdmin.

2. Memory (RAM): Allocate a portion of the server's RAM for the database cache to optimize query performance.

**Software Requirements:**

1. Web Server Software:

Apache serves as a robust web server, handling HTTP requests efficiently and supporting dynamic content delivery, making it a cornerstone for hosting websites and applications. Its modularity and extensibility contribute to its widespread adoption in the web hosting industry.

2. Programming Language:

PHP offers rapid development and cost-effectiveness due to its simplicity, open-source nature, and robust community support, making it ideal for building scalable and dynamic web applications. The extensive use of PHP frameworks further enhances development speed and code maintainability.

3. Frontend Technologies:

- HTML: For structuring web content, use HTML, and ensure proper tags, elements, and semantic structure are employed.

- CSS: Employ CSS for styling, ensuring a responsive and visually appealing design. Utilize classes, IDs. and selectors efficiently for effective styling.

## 2.2 FUNCTIONAL AND NON- FUNCTIONAL REQUIREMENTS:

### Functional Requirements:

1. User Registration and Authentication:

Users (students, faculty, administrators) must be able to register accounts securely and authenticate their identities to access the system.

2. Course Search and Selection:

Students should be able to search for courses based on criteria such as department, schedule, and availability, and add selected courses to their registration.

3. Real-time Schedule Validation:

The system must validate and display potential schedule conflicts or prerequisite issues in real-time during the course selection process.

4. User Profile Management:

Users should be able to manage their profiles, including updating personal information, viewing registration history, and managing account preferences.

### Non-Functional Requirements:

1. Performance:

The system must provide responsive performance, handling simultaneous user requests efficiently, especially during peak registration periods.

2. Scalability:

The system should be scalable to accommodate a growing number of users and increasing data volumes without compromising performance.

3. Reliability:

The system must be reliable, with minimal downtime and a robust backup and recovery mechanism to ensure data integrity.

4. Maintainability:

The system should be easily maintainable, with modular code, documentation, and version control for efficient updates and bug fixes.

# 3. DESIGN

## SYSTEM DESIGN WITH UML DIAGRAMS

### 3.1 System Architecture:

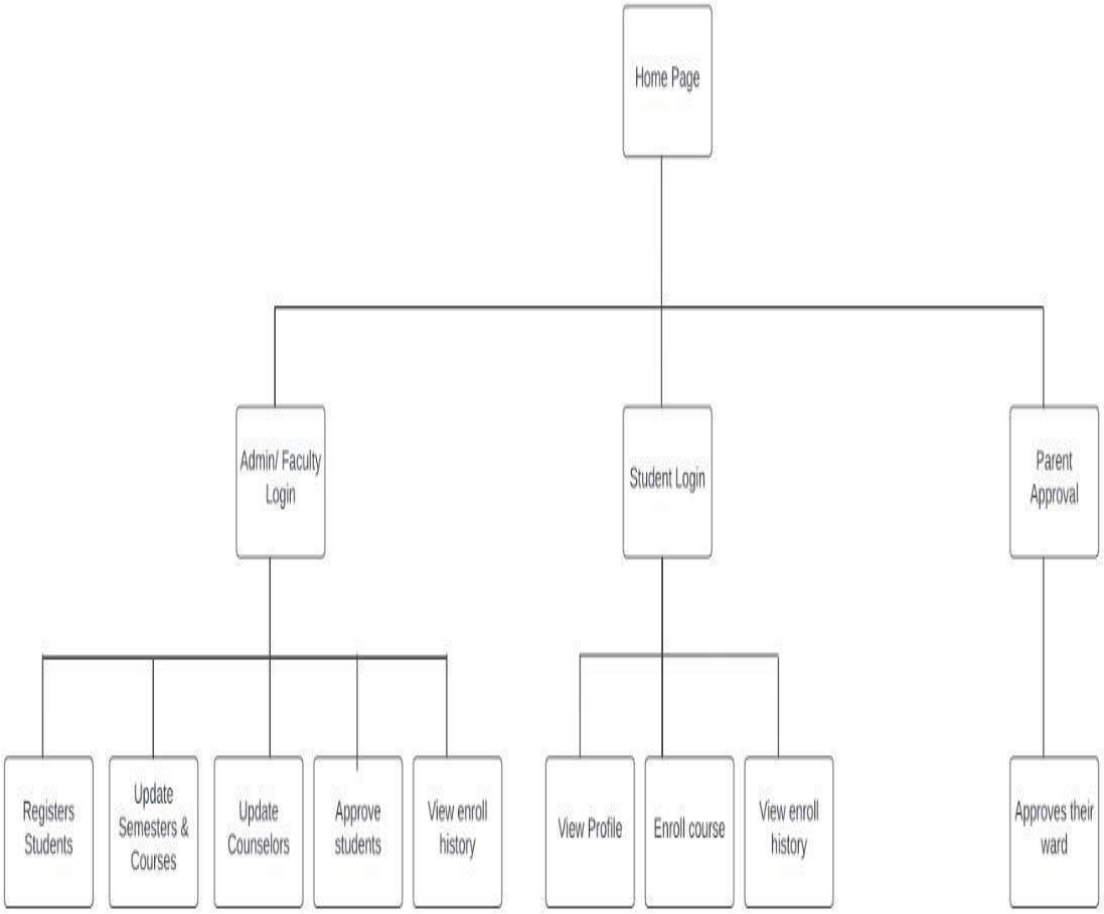


**Figure 3.1: System Architecture**

The Course Registration Portal begins with the Home Page, directing users to the Login Page. Depending on the login type, users are then routed to either the Student Dashboard or the admin/faculty Dashboard. This architecture ensures a user-centric workflow, allowing students and administrators a tailored and efficient experience within the course registration system.

### 3.2 Use-Case Diagram:

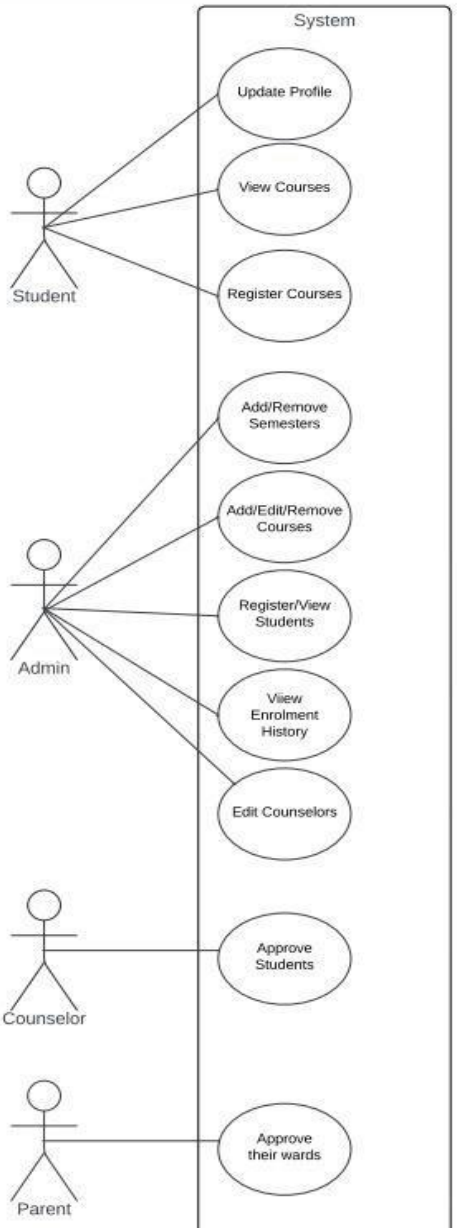


**Figure 3.2: Use-Case diagram**

In the Course Registration Portal, four primary actors include Student, Faculty/Admin, Counselor, and Parent. Students can log in, view profiles, explore available courses, edit personal details, register for courses, and track achievements. Faculty/Admin actors manage the faculty dashboard, gain an overview of student participation, print/download data, view data year-wise, and add new courses. Counselors may provide guidance during course selection, while Parents, though not direct users, might benefit indirectly by monitoring student enrollment progress through communication features or summary reports.

### 3.3 Class Diagram:

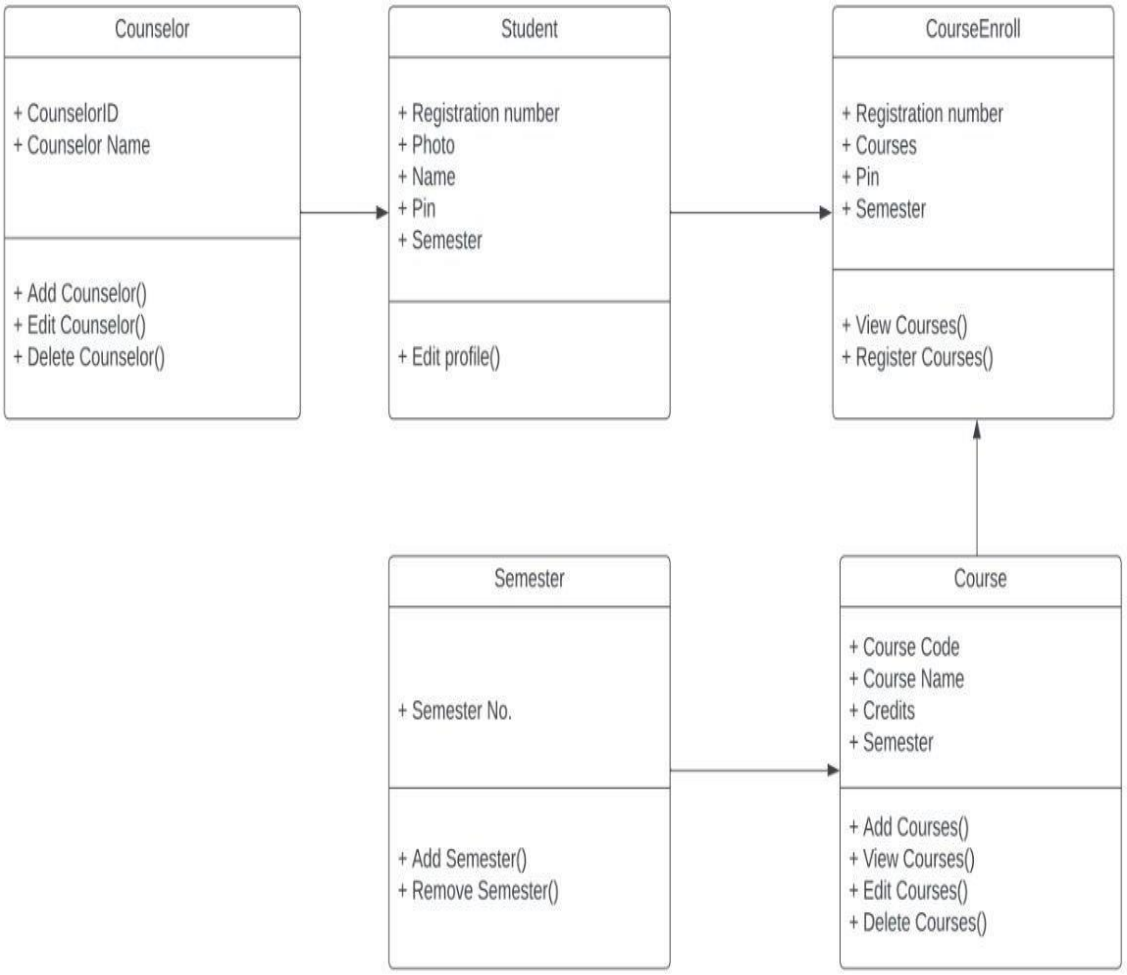


**Figure 3.3: Class Diagram**

The class diagram illustrates relationships in the Course Registration Portal: Counselor has a one-to-many connection with Student. Students and Courses share a many-to-many relationship through Course Enroll. The relationship between Course and Semester is many-to-one, signifying multiple courses in one semester. These connections depict the associations among Counselor, Student, Course Enroll, Course, and Semester classes.

### 3.4 Sequence Diagram:

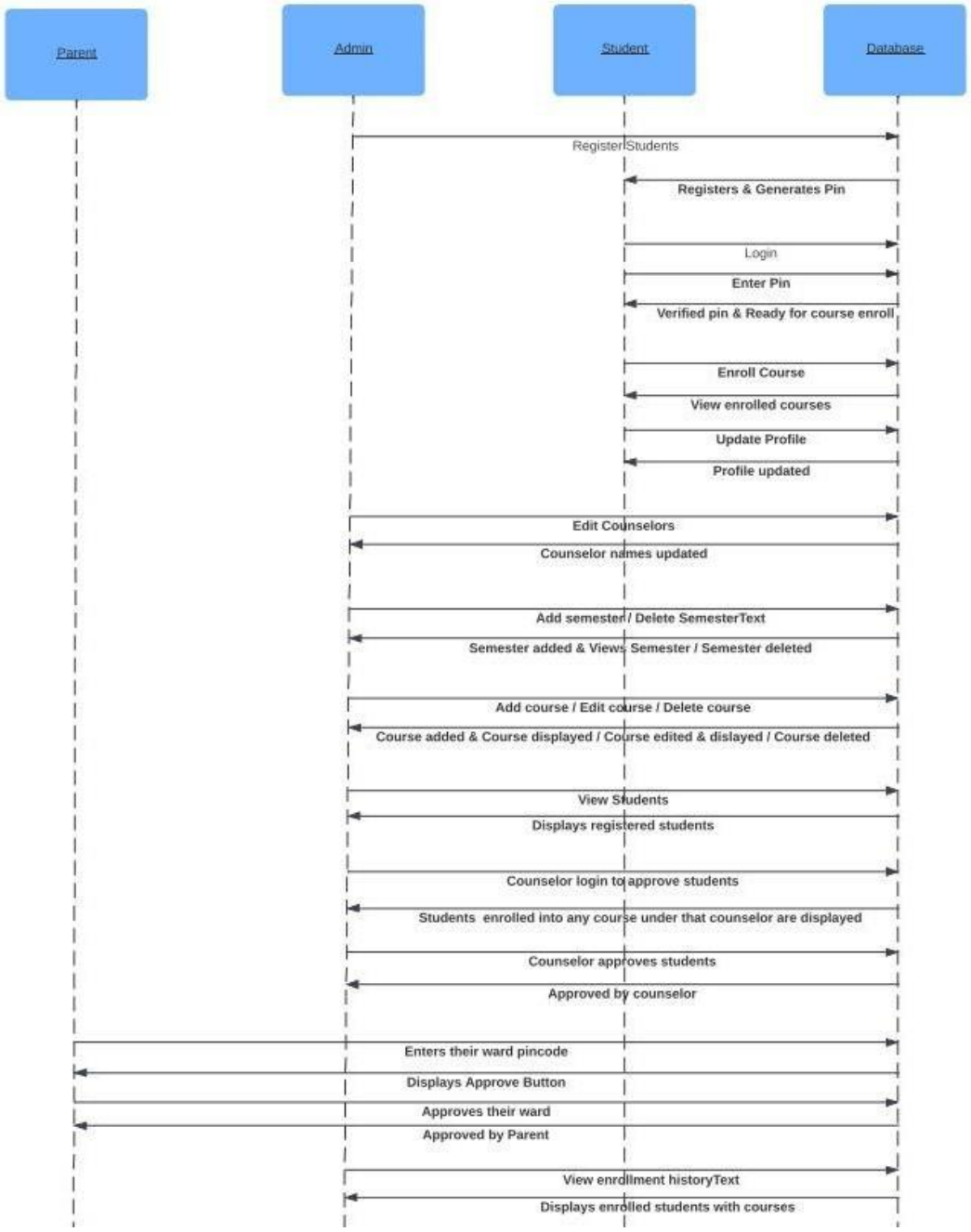


**Figure 3.4: Sequence Diagram**

In the sequence diagram for the Course Registration Portal, the lifelines include Parent, Admin, Student, and Database. The sequence of interactions unfolds as Admin initiates the system, followed by Parent and Student interactions. These lifelines showcase the timed flow of activities and dependencies in the course registration process, involving interactions among Parent, Admin, Student, and the Database.

### 3.5 Activity Diagram:

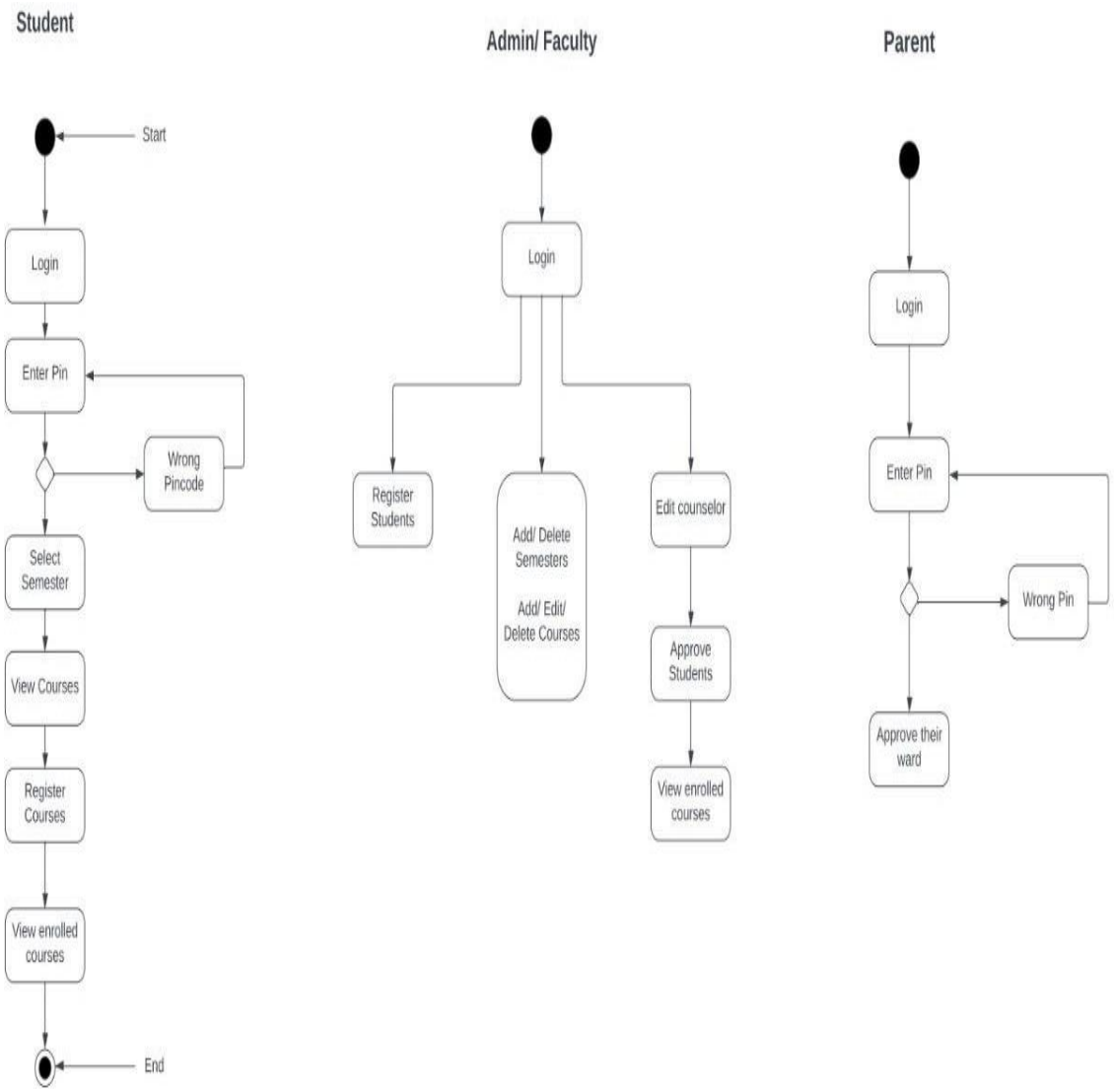


**Figure 3.5: Activity Diagram**

The activity diagram for the Course Registration Portal delineates three distinct activity flows: Student Login, Department Admin Login, and Parent Login. Each flow encapsulates the sequential activities associated with the respective login types, providing a holistic representation of the course registration process and system interaction involving students, department administrators, and parents.

### 3.6 Component Diagram:

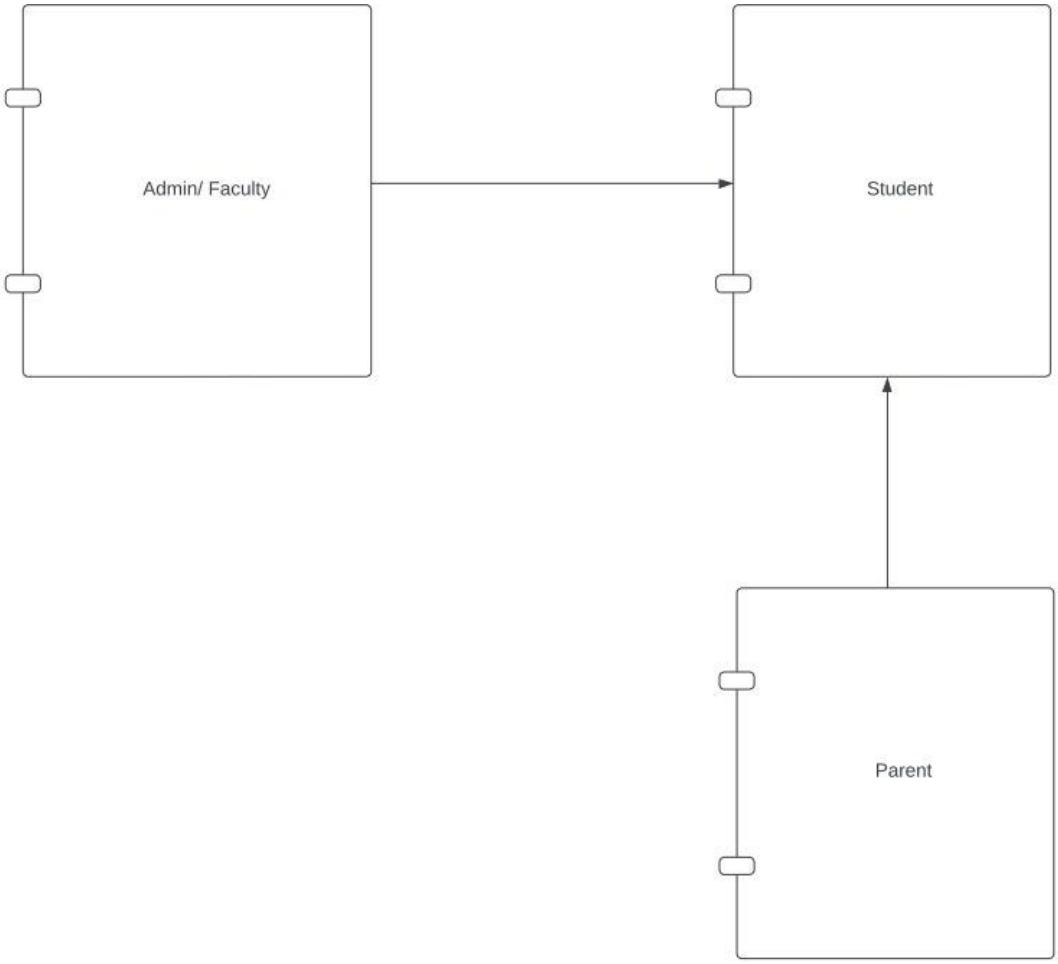


**Figure 3.6: Component Diagram**

The component diagram for the Course Registration Portal features three main components: Admin/Faculty, Student, and Parent. Each component represents a distinct user role, showcasing their role-specific functionalities and interactions within the course registration system. This structural representation emphasizes the clear separation and interconnectedness of the Admin/Faculty, Student, and Parent components in facilitating efficient academic processes.

# 4. IMPLEMENTATION

**4.1 Home Page**

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <title>BVRIT Hyderabad College Of Engineering For Women</title>
   <div id="divNews" style="color:Blue"><marquee scrolldelay='80' truespeed='truespeed' >*
Welcome to BVRITH & SVES Family *</marquee></div>
   <style>
      header {
         display: flex;
         align-items: center;
         padding: 20px 30px;
         background-color: #f0f0f0;
      }.logo {
         width: 120px;
         height: auto;
      }.college-name {
         font-size: 24px;
         font-weight: bold;
         margin-left: 100px;
      }.main-content {
         text-align: center;
         margin-top: 50px;
      }.login-buttons {
         text-align: center;
         margin-top: 20px;
         .login-button {
         display: inline-block
         margin: 10px;
         padding: 10px 20px;
         font-size: 25px;
         text-decoration: none;
         color: #fff;
         background-color: #007bff;
         border: none;
         border-radius: 10px;
         cursor: pointer;}
   </style>
</head>
<body>
```

```
   <header>
      <img src="logo.png" alt="College Logo" class="logo">
      <span class="college-name"><h2>BVRIT Hyderabad College Of Engineering For
Women</h2></span>
   </header>
<div class="main-content">
      <div class="login-buttons">
         <ahref="http://localhost/online-course
registration/Online%20Course%20Registration/admin/admin_login.php"class="login-
button">Login as Admin</a>
         <br>
         <ahref="http://localhost/online-course
registration/Online%20Course%20Registration/student/student_login.php"class="login-
button">Login as Student</a>
         <br>
         <ahref="http://localhost/online-course
registration/Online%20Course%20Registration/parent_approval.php"class="login-
button">Parent Approval</a>
         </div>
   </div>
</body>
</html>
```

**4.1.1 Admin Home Page:**

```
<?php
session_start();
error_reporting(0);
include("includes/config.php");
if(isset($_POST['submit'])){
   $username=$_POST['username'];
   $password=md5($_POST['password']);
$query=mysqli_query($bd, "SELECT * FROM admin WHERE username='$username' and
password='$password'");
$num=mysqli_fetch_array($query);
if($num>0){
$extra="change-password.php";
$_SESSION['alogin']=$_POST['username'];
$_SESSION['id']=$num['id'];
$host=$_SERVER['HTTP_HOST'];
$uri=rtrim(dirname($_SERVER['PHP_SELF']),'/\\');
header("location:http://$host$uri/$extra");
exit();
}else{
$_SESSION['errmsg']="Invalid username or password";
```

```
$extra="admin_login.php";
$host  = $_SERVER['HTTP_HOST'];
$uri = rtrim(dirname($_SERVER['PHP_SELF']),'/\\');
header("location:http://$host$uri/$extra");
exit();
}
}
?>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
   <meta charset="utf-8" /> <meta name="viewport" content="width=device-width, initial-scale=1, maximum-scale=1" />
   <meta name="description" content="" />
   <meta name="author" content="" />
   <title>Admin Login</title>
   <link href="assets/css/bootstrap.css" rel="stylesheet" />
   <link href="assets/css/font-awesome.css" rel="stylesheet" />
   <link href="assets/css/style.css" rel="stylesheet" />
</head>
<body>
   <?php include('includes/header.php');?>
   <?php include('includes/menubarp.php');?>
         <div class="content-wrapper">
      <div class="container">
         <div class="row">
            <div class="col-md-12"
                  <h4 class="page-head-line">Please Login To Enter </h4>
            </div>
         </div>
          <span style="color:red;" ><?php echo htmlentities($_SESSION['errmsg']); ?><?php echo htmlentities($_SESSION['errmsg']="");?></span>
         <form name="admin" method="post">
         <div class="row">
            <div class="col-md-6">
               <label>Enter Username : </label>
                  <input type="text" name="username" class="form-control" required />
                  <label>Enter Password :  </label>
                  <input type="password" name="password" class="form-control" required />
                  <hr />
                  <button type="submit" name="submit" class="btn btn-info"><span class="glyphicon glyphicon-user"></span>  Log Me In </button> 
            </div>
```

```
            </form>
            <!--<div class="col-md-6">
               <div class="alert alert-info">
                  <br />
                   <strong> Some of its features are given below :</strong>
                  <ul>
                     <li>
                        Responsive Design Framework Used
                     </li>
                     <li>
                        Easy to use and customize
                     </li>
                     <li>
                        Font awesome icons included
                     </li>
                     <li>
                        Clean and light code used.
                     </li>
                  </ul>
               </div>
            </div>-->
         </div>
      </div>
   </div>
   <?php include('includes/footer.php');?>
   <script src="assets/js/jquery-1.11.1.js"></script>
   <script src="assets/js/bootstrap.js"></script>
</body>
</html>
```

#### 4.1.1.1 Student Registration:

```
<?php
session_start();
include('includes/config.php');
if(strlen($_SESSION['alogin'])==0){
header('location:index.php');
}else{
if(isset($_POST['submit'])){
$studentname=$_POST['studentname'];
$studentregno=$_POST['studentregno'];
$password=md5($_POST['password']);
$cname=$_POST['cname'];
$sem=$_POST['semester'];
$pincode = rand(100000,999999);
```

```
$ret=mysqli_query($bd,"insertinto
students(studentName,StudentRegno,password,pincode,CName,semester)
values('$studentname','$studentregno','$password','$pincode','$cname','$sem')");
if($ret){
$_SESSION['msg']="Student Registered Successfully !!";
}else{
  $_SESSION['msg']="Error : Student  not Register";
}
}?>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
    <meta charset="utf-8" /> <meta name="viewport" content="width=device-width, initial-
scale=1, maximum-scale=1" />
    <meta name="description" content="" />
    <meta name="author" content="" />
    <title>Admin | Student Registration</title>
 <link href="assets/css/bootstrap.css" rel="stylesheet" />
    <link href="assets/css/font-awesome.css" rel="stylesheet" />
    <link href="assets/css/style.css" rel="stylesheet" />
</head>
<body>
<?php include('includes/header.php');?>
<?php if($_SESSION['alogin']!=""){
 include('includes/menubar.php');
}?>
    <div class="content-wrapper">
       <div class="container">
            <div class="row">
                <div class="col-md-12">
                    <h1 class="page-head-line">Student Registration  </h1>
                </div>
             </div>
             <div class="row" >
               <div class="col-md-3"></div>
                <div class="col-md-6">
                    <div class="panel panel-default">
                    <div class="panel-heading">
                      Student Registration
                    </div>
<font color="green" align="center"><?php echo htmlentities($_SESSION['msg']);?><?php
echo htmlentities($_SESSION['msg']="");?></font>
                    <div class="panel-body">
```

```
                <form name="dept" method="post">
   <div class="form-group">
    <label for="studentname">Student Name  </label>
    <input type="text" class="form-control" id="studentname" name="studentname"
placeholder="Student Name" required />
  </div>
 <div class="form-group">
    <label for="studentregno">Student Reg No  </label>
    <input type="text" class="form-control" id="studentregno" name="studentregno"
onBlur="userAvailability()" placeholder="Student Reg no" required />
     <span id="user-availability-status1" style="font-size:12px;">
  </div>
<div class="form-group">
    <label for="password">Password  </label>
    <input type="password" class="form-control" id="password" name="password"
placeholder="Enter password" required />
  </div>
  <div class="form-group">
  <label for="semester">Semester</label>
                          <select class="form-control" id="semester" name="semester" required>
                            <?php
                            $sql = "SELECT semester FROM semester";
                            $result = $bd->query($sql);
                            while ($row = $result->fetch_assoc()) {
                                echo "<option
value='{$row['semester']}'>{$row['semester']}</option>";
                            }?>
                            </select>
                          </div>
  <div class="form-group">
  <label for="counselor">Counselor</label>
                            <select class="form-control" id="cname" name="cname" required>
                            <?php
                            $sql = "SELECT CName FROM counselor";
                            $result = $bd->query($sql);
                            while ($row = $result->fetch_assoc()) {
                              echo"<option value='{$row['CName']}'>{$row['CName']}</option>";
                            }?>
                            </select>
                          </div>
 <button type="submit" name="submit" id="submit" class="btn btn-
default">Submit</button>
</form>
```

```
                    </div>
                    </div>
                </div>
              </div>
            </div>
        </div>
 </div>
  <?php include('includes/footer.php');?>
    <script src="assets/js/jquery-1.11.1.js"></script>
    <script src="assets/js/bootstrap.js"></script>
<script>
function userAvailability() {
$("#loaderIcon").show();
jQuery.ajax({
url: "check_availability.php",
data:'regno='+$("#studentregno").val(),
type: "POST",
success:function(data){
$("#user-availability-status1").html(data);
$("#loaderIcon").hide();
},
error:function (){}
});
}
</script>
</body>
</html>
<?php } ?>
```

#### 4.1.1.2 Manage Students:

```
<?php
session_start();
include('includes/config.php');
if(strlen($_SESSION['alogin'])==0){
header('location:index.php');
}else{
if(isset($_GET['del'])){
            mysqli_query($bd, "delete from students where StudentRegno = '".$_GET['id']."'");
               $_SESSION['delmsg']="Student record deleted !!";
      }if(isset($_GET['pass'])){
        $password="12345";
        $newpass=md5($password);
            mysqli_query($bd, "update students set password='$newpass' where StudentRegno =
'".$_GET['id']."'");
```

```
            $_SESSION['delmsg']="Password Reset. New Password is 12345";
    } ?>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
   <meta charset="utf-8" />
<meta name="viewport" content="width=device-width, initial-scale=1, maximum-scale=1" />
   <meta name="description" content="" />
   <meta name="author" content="" />
   <title>Admin | Course</title>
   <link href="assets/css/bootstrap.css" rel="stylesheet" />
   <link rel="stylesheet" href="https://pro.fontawesome.com/releases/v5.10.0/css/all.css" />
   <link href="assets/css/font-awesome.css" rel="stylesheet" />
   <link href="assets/css/style.css" rel="stylesheet" />
</head>
<body>
<?php include('includes/header.php');?>
<?php if($_SESSION['alogin']!=""){
 include('includes/menubar.php');
} ?>
   <div class="content-wrapper">
      <div class="container">
           <div class="row">
               <div class="col-md-12">
                  <h1 class="page-head-line">Student Details </h1>
               </div>
            </div>
            <form action="display_search.php" align = "center;" method="GET">
         <div class="col-md-6 offset-md-3">
<input type="text" align = "center" class="form-control" id="search" name="query"
placeholder="Search" required autocomplete="off">
<div align = "center" class="input-group-prepend"><br>
<button type="submit" class="btn btn-default" align = "center">
<i class="fal fa-search" align = "center" id="searchPrepend" style="cursor:
pointer;"></i></button><br><br><script>
// Get the <i> element by its id var searchIcon = document.getElementById('searchPrepend');
searchIcon.addEventListener('click', function() {
        window.location.href = 'display_search.php';
}); document.addEventListener('keydown', function(event) {
        if(event.key === 'Enter') {
                searchIcon.click();
}
});
```

```
</script>
</div></div></form>
   <font color="red" align="center"><?php echo htmlentities($_SESSION['delmsg']);?><?php
echo htmlentities($_SESSION['delmsg']="");?></font>
          <div class = "row">
            <div class="col-md-12">
               <div class="panel panel-default">
                  <div class="panel-heading">
                     Manage Students
                  </div>
                  <div class="panel-body">
                     <div class="table-responsive table-bordered">
                        <table class="table">
                           <thead>
                              <tr>
                                 <th>#</th>
                                 <th>Reg No </th>
                                 <th>Student Name </th>
                                 <th> Pincode</th>
                                 <th> Semester </th>
                                 <th> Counselor</th>
                                  <th>Reg Date</th>
                                  <th>Action</th>
                              </tr>
                           </thead>
                           <tbody>
<?php
$sql=mysqli_query($bd, "select * from students");
$cnt=1;
while($row=mysqli_fetch_array($sql)){
?> <tr>
      <td><?php echo $cnt;?></td>
      <td><?php echo htmlentities($row['StudentRegno']);?></td>
      <td><?php echo htmlentities($row['studentName']);?></td>
       <td><?php echo htmlentities($row['pincode']);?></td>
        <td><?php echo htmlentities($row['semester']);?></td>
        <td><?php echo htmlentities($row['CName']);?></td>
        <td><?php echo htmlentities($row['creationdate']);?></td>
        <td> <td><?php echo $cnt;?></td>
<ahref="manage-students.php?id=<?php echo $row['StudentRegno']?>&del=delete"
onClick="return confirm('Are you sure you want to delete?')">
                                 <button class="btn btn-danger">Delete</button>
</a>
```

```
<a href="manage-students.php?id=<?php echo $row['StudentRegno']?>&pass=update"
onClick="return confirm('Are you sure you want to reset password?')">
<button type="submit" name="submit" id="submit" class="btn btn-default">Reset
Password</button>
</a> </td>
 </tr>
<?php
$cnt++;
} ?>
                                </tbody>
                            </table>
                        </div>
                    </div>
                </div>
            </div>
  <?php include('includes/footer.php');?>
    <script src="assets/js/jquery-1.11.1.js"></script>
    <script src="assets/js/bootstrap.js"></script>
</body>
</html>
<?php } ?>
```

**4.1.1.2.1 Search Option**

```
<?php
session_start();
include('includes/config.php');
if(strlen($_SESSION['alogin'])==0){
header('location:index.php');
}?>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
    <meta charset="utf-8" /> <meta name="viewport" content="width=device-width, initial-
scale=1, maximum-scale=1" />
    <meta name="description" content="" />
    <meta name="author" content="" />
    <title>Admin | Course</title>
    <link href="assets/css/bootstrap.css" rel="stylesheet" />
    <link href="assets/css/font-awesome.css" rel="stylesheet" />
    <link href="assets/css/style.css" rel="stylesheet" />
</head>
<body>
<?php include('includes/header.php');?>
<?php if($_SESSION['alogin']!=""){
```

```
 include('includes/menubar.php');
}?>
   <div class="content-wrapper">
   <div class="container" id="wrapper">
                  <div class="row">
                        <div class="col-md-3" id="sidebar">
                        </div>
                        <div class="col-md-9">
                              <div id="main-area">
                                    <div class="content-section">
               <h5>Search Results:</h5><br>
                  <?php
                  if (isset($_GET['query'])) {
                     $searchQuery = urldecode($_GET['query']);
$sql1 = mysqli_query($bd, "SELECT * from students where StudentRegno = '$searchQuery'");
 $sql2 = mysqli_query($bd, "SELECT * from students where studentName = '$searchQuery'")
$cnt=1;
if($sql1->num_rows > 0) {
        echo "<br><h5>Details: </h5><br>";
                     # Reg No Student Name Pincode Counselor Reg Date Action
        if ($sql1->num_rows > 0) {
                echo "<table border = 5 class='table'>";
                echo "<thead>";
                echo "<tr>";
                echo "<th>#</th>";
                echo "<th>Reg No</th>";
                echo "<th>Student Name</th>";
                echo "<th>Pincode</th>";
                echo "<th>Counselor</th>";
                echo "<th>Reg Date</th>";
                echo "</tr>";
                echo "</thead>";
                echo "<tbody>";
while ($row = $sql1->fetch_assoc()) {
        echo "<tr>";
        echo "<td>" . $cnt . "</td>";
        echo "<td>" . $row['StudentRegno'] . "</td>";
        echo "<td>" . $row['studentName'] . "</td>";
        echo "<td>" . $row['pincode'] . "</td>";
        echo "<td>" . $row['CName'] . "</td>";
        echo "<td>" . $row['creationdate'] . "</td>";
        echo "</tr>";
        $cnt++;
```

```
}echo "</tbody>";
echo "</table>";
} else {
        echo "<p>No results found for your search query.</p>";
        }
}else if($sql2->num_rows > 0){
        echo "<br><h5>Details: </h5><br>";
#Reg No        Student Name Pincode        Counselor        Reg Date        Action
        if ($sql2->num_rows > 0) {
                echo "<table border = 5 class='table'>";
                echo "<thead>";
                echo "<tr>";
                echo "<th>#</th>";
                echo "<th>Reg No</th>";
                echo "<th>Student Name</th>";
                echo "<th>Pincode</th>";
                echo "<th>Counselor</th>";
                echo "<th>Reg Date</th>";
                echo "</tr>";
                echo "</thead>";
                echo "<tbody>";
                while ($row = $sql2->fetch_assoc()) {
                echo "<tr>":
                echo "<td>" . $cnt . "</td>";
                echo "<td>" . $row['StudentRegno'] . "</td>";
                echo "<td>" . $row['studentName'] . "</td>";
                echo "<td>" . $row['pincode'] . "</td>";
                echo "<td>" . $row['CName'] . "</td>";
                echo "<td>" . $row['creationdate'] . "</td>";
                echo "</tr>";
                $cnt++;
                 }
                echo "</tbody>";
                echo "</table>";
                } else {
                echo "<p>No results found for your search query.</p>";
                        }
                }else{
                        echo "<h6> Invalid Query.<br><br><i> Please give a username
                or hackathon name</i></h6>";
                        }
                }?>
        </div> <!-- Content Section End -->
```

```
                <br><br>
                        </div>
                    </div>
    </div>
  <?php include('includes/footer.php');?>
    <script src="assets/js/jquery-1.11.1.js"></script>
    <script src="assets/js/bootstrap.js"></script>
</body>
</html>
<?php ?>
```

**4.1.1.3 Semester:**

```
<?php
session_start();
include('includes/config.php');
if(strlen($_SESSION['alogin'])==0) {
header('location:index.php');
}else{
if(isset($_POST['submit'])){
  $semester=$_POST['semester'];
$ret=mysqli_query($bd, "insert into semester(semester) values('$semester')");
if($ret){
$_SESSION['msg']="Semester Created Successfully !!";
}else{
  $_SESSION['msg']="Error : Semester not created";
}
}if(isset($_GET['del'])){
            mysqli_query($bd, "delete from semester where id = '".$_GET['id']."'");
               $_SESSION['delmsg']="semester deleted !!";
}?>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
    <meta charset="utf-8" />
<meta name="viewport" content="width=device-width, initial-scale=1, maximum-scale=1" />
    <meta name="description" content="" />
    <meta name="author" content="" />
    <title>Admin | Semester</title>
    <link href="assets/css/bootstrap.css" rel="stylesheet" />
    <link href="assets/css/font-awesome.css" rel="stylesheet" />
    <link href="assets/css/style.css" rel="stylesheet" />
</head>
<body>
<?php include('includes/header.php');?>
```

```
<?php if($_SESSION['alogin']!=""){
 include('includes/menubar.php');
}?>
   <div class="content-wrapper">
      <div class="container">
           <div class="row">
               <div class="col-md-12">
                  <h1 class="page-head-line">Semester  </h1>
               </div>
            </div>
            <div class="row" >
              <div class="col-md-3"></div>
               <div class="col-md-6">
                  <div class="panel panel-default">
                  <div class="panel-heading">
                    Semester
                  </div>
<font color="green" align="center"><?php echo htmlentities($_SESSION['msg']);?><?php
echo htmlentities($_SESSION['msg']="");?></font>
                  <div class="panel-body">
                 <form name="semester" method="post">
  <div class="form-group">
   <label for="semester">Add Semester  </label>
   <input type="text" class="form-control" id="semester" name="semester"
placeholder="semester" required />
  </div>
 <button type="submit" name="submit" class="btn btn-default">Submit</button>
</form>
                     </div>
                     </div>
               </div>
            </div>
            <fontcolor="red" align="center"><?php echo
htmlentities($_SESSION['delmsg']);?><?php echo
htmlentities($_SESSION['delmsg']="");?></font>
            <div class="col-md-12">
               <div class="panel panel-default">
                  <div class="panel-heading">
                     Manage Semester
                  </div>
                  <div class="panel-body">
                     <div class="table-responsive table-bordered">
                        <table class="table">
```

```
                        <thead>
                          <tr>
                            <th>#</th>
                            <th>Semester</th>
                            <th>Creation Date</th>
                            <th>Action</th>
                          </tr>
                        </thead>
                        <tbody>
<?php
$sql=mysqli_query($bd, "select * from semester");
$cnt=1;
while($row=mysqli_fetch_array($sql)){
?> <tr>
  <td><?php echo $cnt;?></td>
    <td><?php echo htmlentities($row['semester']);?></td>
     <td><?php echo htmlentities($row['creationDate']);?></td>
     <td>
  <a href="semester.php?id=<?php echo $row['id']?>&del=delete" onClick="return
confirm('Are you sure you want to delete?')">
                            <button class="btn btn-danger">Delete</button>
</a></td>
                          </tr>
<?php
$cnt++;
} ?>
                        </tbody>
                      </table>
                    </div>
                  </div>
                </div>
              </div>
            </div>
          </div>
    </div>
  <?php include('includes/footer.php');?>
    <script src="assets/js/jquery-1.11.1.js"></script>
    <script src="assets/js/bootstrap.js"></script>
</body>
</html>
<?php } ?>
```

**4.1.1.4 Course:**

```
<?php
session_start();
include('includes/config.php');
if(strlen($_SESSION['alogin'])==0){
header('location:index.php');
}else{
if(isset($_POST['submit'])){
$coursecode=$_POST['coursecode'];
$coursename=$_POST['coursename'];
$courseunit=$_POST['courseunit'];
$semester=$_POST['semester'];
$ret=mysqli_query($bd, "insert into course(courseCode,courseName,courseUnit,semester)
values('$coursecode','$coursename','$courseunit','$semester')");
if($ret){
$_SESSION['msg']="Course Created Successfully !!";
}else{
  $_SESSION['msg']="Error : Course not created";
}
}if(isset($_GET['del'])){
            mysqli_query($bd, "delete from course where id = '".$_GET['id']."'");
               $_SESSION['delmsg']="Course deleted !!";
}?>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
    <meta charset="utf-8" />
<meta name="viewport" content="width=device-width, initial-scale=1, maximum-scale=1" />
    <meta name="description" content="" />
    <meta name="author" content="" />
    <title>Admin | Course</title>
    <link href="assets/css/bootstrap.css" rel="stylesheet" />
    <link href="assets/css/font-awesome.css" rel="stylesheet" />
    <link href="assets/css/style.css" rel="stylesheet" />
</head>
<body>
<?php include('includes/header.php');?
<?php if($_SESSION['alogin']!=""){
 include('includes/menubar.php');
}?>
    <div class="content-wrapper">
        <div class="container">
            <div class="row">
```

```
                <div class="col-md-12">
                    <h1 class="page-head-line">Course  </h1>
                </div>
              </div>
              <div class="row" >
                <div class="col-md-3"></div>
                  <div class="col-md-6">
                    <div class="panel panel-default">
                    <div class="panel-heading">
                      Course
                    </div>
<font color="green" align="center"><?php echo htmlentities($_SESSION['msg']);?><?php
echo htmlentities($_SESSION['msg']="");?></font>
                    <div class="panel-body">
                   <form name="dept" method="post">
   <div class="form-group">
    <label for="coursecode">Course Code  </label>
    <input type="text" class="form-control" id="coursecode" name="coursecode"
placeholder="Course Code" required />
  </div>
 <div class="form-group">
    <label for="coursename">Course Name  </label>
    <input type="text" class="form-control" id="coursename" name="coursename"
placeholder="Course Name" required />
  </div>
<div class="form-group">
    <label for="courseunit">Credits  </label>
    <input type="text" class="form-control" id="courseunit" name="courseunit"
placeholder="Credits" required />
  </div>
  <div class="form-group">
  <label for="semester">Semester</label>
                          <select class="form-control" id="semester" name="semester" required>
                            <?php
                            $sql = "SELECT semester FROM semester";
                            $result = $bd->query($sql);
                            while ($row = $result->fetch_assoc()) {
                    echo"<optionvalue='{$row['semester']}'>{$row['semester']}</option>";
                            }
                            ?>
                            </select>
                          </div>
<button type="submit" name="submit" class="btn btn-default">Submit</button>
```

```
</form>
                    </div>
                    </div>
                </div>
            </div>
            <fontcolor="red" align="center"><?php echo
htmlentities($_SESSION['delmsg']);?><?php echo
htmlentities($_SESSION['delmsg']="");?></font>
            <div class="col-md-12">
                <div class="panel panel-default">
                    <div class="panel-heading">
                        Manage Course
                    </div>
                    <div class="panel-body">
                        <div class="table-responsive table-bordered">
                            <table class="table">
                                <thead>
                                    <tr>
                                        <th>#</th>
                                        <th>Course Code</th>
                                        <th>Course Name </th>
                                        <th>Course Unit</th>
                                        <th>Semester</th>
                                         <th>Creation Date</th>
                                         <th>Action</th>
                                    </tr>
                                </thead>
                                <tbody>
<?php
$sql=mysqli_query($bd, "select * from course");
$cnt=1;
while($row=mysqli_fetch_array($sql)){
?>
                                    <tr>
                                        <td><?php echo $cnt;?></td>
                                        <td><?php echo htmlentities($row['courseCode']);?></td>
                                        <td><?php echo htmlentities($row['courseName']);?></td>
                                        <td><?php echo htmlentities($row['courseUnit']);?></td>
                                         <td><?php echo htmlentities($row['semester']);?></td>
                                        <td><?php echo htmlentities($row['creationDate']);?></td>
                                        <td>
                                        <a href="edit-course.php?id=<?php echo $row['id']?>">
<button class="btn btn-primary"><i class="fa fa-edit "></i> Edit</button> </a>
```

```
  <a href="course.php?id=<?php echo $row['id']?>&del=delete" onClick="return confirm('Are
you sure you want to delete?')">
                                <button class="btn btn-danger">Delete</button>
</a>
                                </td>
                              </tr>
<?php
$cnt++;
} ?>
                            </tbody>
                          </table>
                        </div>
                      </div>
                    </div>
                  </div>
                </div>
              </div>
            </div>
          </div>
    <?php include('includes/footer.php');?>
    <script src="assets/js/jquery-1.11.1.js"></script>
    <script src="assets/js/bootstrap.js"></script>
</body>
</html>
<?php } ?>
```

**4.1.1.4.1 Edit Course:**

```
 <?php
session_start();
include('includes/config.php');
if(strlen($_SESSION['alogin'])==0){
header('location:index.php');
}else{
if(isset($_POST['submit'])){
$coursecode=$_POST['coursecode'];
$coursename=$_POST['coursename'];
$courseunit=$_POST['courseunit'];
$semester=$_POST['semester'];
$ret=mysqli_query($bd, "insert into course(courseCode,courseName,courseUnit,semester)
values('$coursecode','$coursename','$courseunit','$semester')");
if($ret){
$_SESSION['msg']="Course Created Successfully !!";
}else{
  $_SESSION['msg']="Error : Course not created";
}
```

```
}if(isset($_GET['del'])){
            mysqli_query($bd, "delete from course where id = '".$_GET['id']."'");
               $_SESSION['delmsg']="Course deleted !!";
     }
?>
<!DOCT…
 course
<?php
session_start();
include('includes/config.php');
if(strlen($_SESSION['alogin'])==0){
header('location:index.php');
}else{
$id=intval($_GET['id']);
date_default_timezone_set('Asia/Kolkata');
$currentTime = date( 'd-m-Y h:i:s A', time () );
if(isset($_POST['submit'])){
$coursecode=$_POST['coursecode'];
$coursename=$_POST['coursename'];
$courseunit=$_POST['courseunit'];
$semester=$_POST['semester'];
$ret=mysqli_query($bd, "update course
setcourseCode='$coursecode',courseName='$coursename',
courseUnit='$courseunit',semester='$semester',updationDate='$currentTime' where id='$id'");
if($ret){
$_SESSION['msg']="Course Updated Successfully !!";
}else{
  $_SESSION['msg']="Error : Course not Updated";
}
}
?>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
   <meta charset="utf-8" /> <meta name="viewport" content="width=device-width, initial-
scale=1, maximum-scale=1" />
   <meta name="description" content="" />
   <meta name="author" content="" />
   <title>Admin | Course</title>
   <link href="assets/css/bootstrap.css" rel="stylesheet" />
   <link href="assets/css/font-awesome.css" rel="stylesheet" />
   <link href="assets/css/style.css" rel="stylesheet" />
</head>
```

```
<body>
<?php include('includes/header.php');?>
<?php if($_SESSION['alogin']!=""){
 include('includes/menubar.php');
}
 ?>
   <div class="content-wrapper">
      <div class="container">
           <div class="row">
               <div class="col-md-12">
                  <h1 class="page-head-line">Course  </h1>
               </div>
            </div>
            <div class="row" >
              <div class="col-md-3"></div>
                  <div class="col-md-6">
                  <div class="panel panel-default">
                  <div class="panel-heading">
                    Course
                  </div>
<font color="green" align="center"><?php echo htmlentities($_SESSION['msg']);?><?php
echo htmlentities($_SESSION['msg']="");?></font>
                  <div class="panel-body">
                 <form name="dept" method="post">
<?php
$sql=mysqli_query($bd, "select * from course where id='$id'");
$cnt=1;
while($row=mysqli_fetch_array($sql)){
?>
<p><b>Last Updated at</b> :<?php echo htmlentities($row['updationDate']);?></p>
   <div class="form-group">
    <label for="coursecode">Course Code  </label>
    <input type="text" class="form-control" id="coursecode" name="coursecode"
placeholder="Course Code" value="<?php echo htmlentities($row['courseCode']);?>"
required />
  </div>
 <div class="form-group">
    <label for="coursename">Course Name  </label>
    <input type="text" class="form-control" id="coursename" name="coursename"
placeholder="Course Name" value="<?php echo htmlentities($row['courseName']);?>"
required />
  </div>
<div class="form-group">
```

```
    <label for="courseunit">Credits  </label>
    <input type="text" class="form-control" id="courseunit" name="courseunit"
placeholder="Credits" value="<?php echo htmlentities($row['courseUnit']);?>" required />
  </div>
  <div class="form-group">
  <label for="semester">Semester</label>
                          <select class="form-control" id="semester" name="semester" required>
                            <?php
                            $sql = "SELECT semester FROM semester";
                            $result = $bd->query($sql);
                            while ($row = $result->fetch_assoc()) {
                         echo "<option value='{$row['semester']}'>{$row['semester']}</option>";
                            }
                            ?>
                            </select>
                          </div>
<button type="submit" name="submit" class="btn btn-default"><i class=" fa fa-refresh "></i>
Update</button>
<?php } ?>
</form>
                        </div>
                        </div>
                    </div>
                </div>
            </div>
        </div>
    </div>
  <?php include('includes/footer.php');?>
    <script src="assets/js/jquery-1.11.1.js"></script>
    <script src="assets/js/bootstrap.js"></script>
</body>
</html>
<?php } ?>
```

**4.1.1.5 Edit Counselors:**

```
<?php
session_start();
include('includes/config.php');
if(strlen($_SESSION['alogin'])==0){
header('location:index.php');
}else{
if(isset($_POST['submit'])){
$cid=$_POST['cid'];
$cname=$_POST['cname'];
```

```
$ret=mysqli_query($bd, "insert into counselor(Cid,CName) values('$cid','$cname')");
if($ret){
$_SESSION['msg']="Counselor Added Successfully !!";
}else{
  $_SESSION['msg']="Error : Counselor Not Added";
}
}if(isset($_GET['del'])){
            mysqli_query($bd, "delete from counselor where Cid = '".$_GET['id']."'");
               $_SESSION['delmsg']="Counselor deleted !!";
     }
?>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
   <meta charset="utf-8" />
<meta name="viewport" content="width=device-width, initial-scale=1, maximum-scale=1" />
   <meta name="description" content="" />
   <meta name="author" content="" />
   <title>Admin | Course</title>
   <link href="assets/css/bootstrap.css" rel="stylesheet" />
   <link href="assets/css/font-awesome.css" rel="stylesheet" />
   <link href="assets/css/style.css" rel="stylesheet" />
</head>
<body>
<?php include('includes/header.php');?>
<?php if($_SESSION['alogin']!=""){
 include('includes/menubar.php');
}
 ?>
   <div class="content-wrapper">
      <div class="container">
           <div class="row">
               <div class="col-md-12">
                  <h1 class="page-head-line">Counselor  </h1>
               </div>
            </div>
            <div class="row" >
              <div class="col-md-3"></div>
               <div class="col-md-6">
                  <div class="panel panel-default">
                  <div class="panel-heading">
                  Counselor
                  </div>
```

```
<font color="green" align="center"><?php echo htmlentities($_SESSION['msg']);?><?php
echo htmlentities($_SESSION['msg']="");?></font>
                    <div class="panel-body">
                   <form name="dept" method="post">
  <div class="form-group">
   <label for="cid">Counselor ID  </label>
   <input type="text" class="form-control" id="cid" name="cid" placeholder="Counselor
Code" required />
 </div>
<div class="form-group">
   <label for="cname">Counselor Name  </label>
   <input type="text" class="form-control" id="cname" name="cname"
placeholder="Counselor Name" required />
</div>
<button type="submit" name="submit" class="btn btn-default">Submit</button>
</form>
                        </div>
                        </div>
                    </div>
                </div>
                <font color="red" align="center"><?php echo
htmlentities($_SESSION['delmsg']);?><?php echo
htmlentities($_SESSION['delmsg']="");?></font>
                <div class="col-md-12">
                    <div class="panel panel-default">
                        <div class="panel-heading">
                            Manage Counselors
                        </div>
                        <div class="panel-body">
                            <div class="table-responsive table-bordered">
                                <table class="table">
                                    <thead>
                                        <tr>
                                            <th>#</th>
                                            <th>Counselor ID</th>
                                            <th>Counselor Name </th>
                                        </tr>
                                    </thead>
                                    <tbody>
<?php
$sql=mysqli_query($bd, "select * from counselor");
$cnt=1;
while($row=mysqli_fetch_array($sql)){
```

```
?>
                                <tr>
                                    <td><?php echo $cnt;?></td>
                                    <td><?php echo htmlentities($row['Cid']);?></td>
                                    <td><?php echo htmlentities($row['CName']);?></td>
                                    <td>
                                    <a href="edit-counselor.php?id=<?php echo $row['id']?>">
<button class="btn btn-primary"><i class="fa fa-edit "></i> Edit</button> </a>
  <a href="addc.php?id=<?php echo $row['Cid']?>&del=delete" onClick="return confirm('Are
you sure you want to delete?')">
                                    <button class="btn btn-danger">Delete</button>
</a>
                                    </td>
                                </tr>
<?php
$cnt++;
} ?>
                            </tbody>
                        </table>
                    </div>
                </div>
            </div>
        </div>
    </div>
  </div>
  <?php include('includes/footer.php');?>
    <script src="assets/js/jquery-1.11.1.js"></script>
    <script src="assets/js/bootstrap.js"></script>
</body>
</html>
<?php } ?>
```

**4.1.1.6 Counselor Approval:**

```
<?php
session_start();
include('includes/config.php');
if(strlen($_SESSION['alogin'])==0) {
    header('location:index.php');
} else {
    if(isset($_POST['submit'])) {
        $selectedCounselor = $_POST["selectedCounselor"];
        if($selectedCounselor != "") {
            $_SESSION['selectedCounselor'] = $selectedCounselor;
```

```
        }
    }if (isset($_POST['approve'])) {
        $entryId = $_POST['entry_id'];
        $query = "UPDATE courseenrolls SET counselor = 1 WHERE studentRegno =
'$entryId'";
        $result = mysqli_query($bd, $query);
        if($result){
        $_SESSION['msg']="Approved Successfully !!";
        }else{
        $_SESSION['msg']="Error : Could not approve";
        }
    }?>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
    <meta charset="utf-8" /> <meta name="viewport" content="width=device-width, initial-
scale=1, maximum-scale=1" />
    <meta name="description" content="" />
    <meta name="author" content="" />
    <title>Admin | Student Registration</title>
    <link href="assets/css/bootstrap.css" rel="stylesheet" />
    <link href="assets/css/font-awesome.css" rel="stylesheet" />
    <link href="assets/css/style.css" rel="stylesheet" />
</head>
<body>
    <?php include('includes/header.php');?>
    <?php if($_SESSION['alogin']!="") {
        include('includes/menubar.php');
    } ?>
    <div class="content-wrapper">
        <div class="container">
            <div class="row">
                <div class="col-md-12">
                    <h1 class="page-head-line">Counselor Approval</h1>
                </div>
            </div>
            <div class="row">
                <div class="col-md-3"></div>
                <div class="col-md-6">
                    <div class="panel panel-default"style="width: 130%;">
                        <div class="panel-heading" >
                            Counselor Approval
                        </div>
```

```
                <font color="green" align="center"><?php echo
htmlentities($_SESSION['msg']);?><?php echo
htmlentities($_SESSION['msg']="");?></font>
                <div class="panel-body">
                   <form method="post" action="<?php echo
htmlspecialchars($_SERVER["PHP_SELF"]); ?>">
                      <label for="selectedCounselor" placeholder="Select
Counselor">Counselor:</label>
                      <select name="selectedCounselor">
                         <option value="">Select Counselor</option>
                         <?php
                     $resultCounselors = mysqli_query($bd, "select CName from counselor;");
                     while ($row = $resultCounselors->fetch_assoc()) {
                     $counselor = $row['CName'];
                     $selected = ($counselor == $_SESSION['selectedCounselor']) ? 'selected' : '';
                      echo "<option value=\"$counselor\" $selected>$counselor</option>";
                         }
                         ?>
                      </select>
                      <br>
                      <div align='center'>
                         <input type="submit" name="submit" value="Show Students">
                         <br><br>
                      </div>
                     </form>
                     <?php
                     if(isset($_SESSION['selectedCounselor'])&&
$_SESSION['selectedCounselor'] != '') {
                      $selectedCounselor = $_SESSION['selectedCounselor'];
                      $query = "SELECT
                      ce.course AS courname,
                      ce.enrollDate AS edate,
                      ce.semester AS sem,
                      st.studentName AS sname,
                      st.StudentRegno AS sregno
                      FROM courseenrolls ce
                      JOIN students st ON st.StudentRegno = ce.studentRegno
                      WHERE
                      ce.counselor = 0 AND st.CName = '$selectedCounselor';";
                      $resultStudents = mysqli_query($bd, $query);
                      if(mysqli_num_rows($resultStudents) > 0) {
                         ?>
                         <div class="panel panel-default">
```

```
                    <div class="panel-heading">
                        Students under <?php echo $selectedCounselor; ?>
                    </div>
                    <div class="panel-body">
                        <div class="table-bordered">
                            <table class="table">
                                <thead>
                                    <tr>
                                        <th>#</th>
                                        <th>Reg No.</th>
                                        <th>Student Name</th>
                                        <th>Course</th>
                                        <th>Semester</th>
                                        <th>Enrollment Date</th>
                                        <th>Action</th>
                                    </tr>
                                </thead>
                                <tbody>
                                    <?php
                                    $cnt = 1;
                                    while($row = mysqli_fetch_assoc($resultStudents)) {
                                        ?>
                                        <tr>
                                            <td><?php echo $cnt;?></td>
                                            <td><?php echo htmlentities($row['sregno']);?></td>
                                            <td><?php echo htmlentities($row['sname']);?></td>
                                            <td><?phpechohtmlentities($row['courname']);?></td>
                                            <td><?php echo htmlentities($row['sem']);?></td>
                                            <td><?php echo htmlentities($row['edate']);?></td>
                                            <td>
                                                <form method="post" action="<?php echo
htmlspecialchars($_SERVER["PHP_SELF"]); ?>">
                                                <input type="hidden" name="entry_id" value="<?php
                                                    echohtmlentities($row['sregno']);?>">
                                                <inputtype="submit"name="approve"value="Approve">
                                            </td>
                                                </form>
                                                </tr>
                                                <?php
                                                $cnt++;
                                                }?>
                                    </tbody>
                                </table>
```

```
                                </div>
                            </div>
                        </div>
                        <?php
                    } else {
                        echo "<p>No students found under $selectedCounselor.</p>";
                    }
                }?>
            </div>
        </div>
    </div>
</div>
<?php include('includes/footer.php');?>
<script src="assets/js/jquery-1.11.1.js"></script>
<script src="assets/js/bootstrap.js"></script>
<script>
function userAvailability() {
    $("#loaderIcon").show();
    jQuery.ajax({
        url: "check_availability.php",
        data:'regno='+$("#studentregno").val(),
        type: "POST",
        success:function(data){
            $("#user-availability-status1").html(data);
            $("#loaderIcon").hide();
        },
        error:function (){}
    });
}
</script>
<!-- <script>
function approveEntry(entryId) {
    // AJAX request to update the database
    var xhr = new XMLHttpRequest();
    xhr.open('POST', '', true);
    xhr.setRequestHeader('Content-Type', 'application/x-www-form-urlencoded');
    xhr.onreadystatechange = function() {
        if (xhr.readyState === 4 && xhr.status === 200) {
            // Handle the response, if needed
            console.log(xhr.responseText);
        }
```

```
        };
        xhr.send('entry_id=' + entryId);
    }
</script> -->
</body>
</html>
<?php } ?>
```

**4.1.1.7 Enroll History:**

```
<?php
session_start();
include('includes/config.php');
if(strlen($_SESSION['alogin']) == 0) {
    header('location:index.php');
} else {
?>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
    <meta charset="utf-8" />
<meta name="viewport" content="width=device-width, initial-scale=1, maximum-scale=1" />
    <meta name="description" content="" />
    <meta name="author" content="" />
    <title>Enroll History</title>
    <link href="assets/css/bootstrap.css" rel="stylesheet" />
    <link rel="stylesheet" href="https://pro.fontawesome.com/releases/v5.10.0/css/all.css" />
    <link href="assets/css/font-awesome.css" rel="stylesheet" />
    <link href="assets/css/style.css" rel="stylesheet" />
</head>
<body>
    <?php include('includes/header.php');?>
    <?php if($_SESSION['alogin']!="") {
        include('includes/menubar.php');
    } ?>
    <div class="content-wrapper">
        <div class="container">
            <div class="row">
                <div class="col-md-12">
                    <h1 class="page-head-line">Enroll History</h1>
                </div>
            </div>
            <form action="ds2.php" align = "center;" method="GET">
            <div class="col-md-6 offset-md-3">
```

```
        <input type="text" align = "center" class="form-control" id="search" name="query"
placeholder="Search" required autocomplete="off">
        <div align = "center" class="input-group-prepend"><br>
        <button type="submit" class="btn btn-default" align = "center">
        <i class="fal fa-search" align = "center" id="searchPrepend" style="cursor:
pointer;"></i>
        </button><br><br>
        <script>var searchIcon = document.getElementById('searchPrepend');
        searchIcon.addEventListener('click', function() {
        window.location.href = 'ds2.php';
        });
document.addEventListener('keydown', function(event) {
        if (event.key === 'Enter') {
                searchIcon.click();
                                }
});
                                                                </script>
                                                        </div>
                                                </div>
                                        </form>
        <div class="row">
           <div class="col-md-12">
              <div class="panel panel-default">
                 <div class="panel-heading">
                   Enroll History
                 </div>
                 <div class="panel-body">
                    <?php
                    $sql = mysqli_query($bd, "SELECT
                                        ce.course AS cid,
                                        c.courseName AS courname,
                                        ce.enrollDate AS edate,
                                        ce.semester AS sem,
                                        st.studentName AS sname,
                                        st.StudentRegno AS sregno
                                FROM
                                        courseenrolls ce
                                JOIN course c ON c.courseName = ce.course
                                JOIN semester s ON s.id = ce.semester
                                JOIN students st ON st.StudentRegno = ce.studentRegno
                                WHERE
                                        ce.parent = 1
                                AND ce.counselor = 1;");
```

```
                    if (mysqli_num_rows($sql) > 0) {
                        ?>
                        <div class="table-responsive table-bordered">
                            <table class="table">
                                <thead>
                                    <tr>
                                        <th>#</th>
                                        <th>Student Name</th>
                                        <th>Student Reg no</th>
                                        <th>Course Name</th>
                                        <th>Semester</th>
                                        <th>Enrollment Date</th>
                                    </tr>
                                </thead>
                                <tbody>
                                    <?php
                                    $cnt = 1;
                                    while($row = mysqli_fetch_array($sql)) {
                                    ?>
                                    <tr>
                                        <td><?php echo $cnt;?></td>
                                        <td><?php echo htmlentities($row['sname']);?></td>
                                        <td><?php echo htmlentities($row['sregno']);?></td>
                                        <td><?php echo htmlentities($row['courname']);?></td>
                                        <td><?php echo htmlentities($row['sem']);?></td>
                                        <td><?php echo htmlentities($row['edate']);?></td>
                                    </tr>
                                    <?php
                                        $cnt++;
                                    } ?>
                                </tbody>
                            </table>
                        </div>
                        <?php
                    } else {
                        echo "No results found.";
                    }?>
                </div>
            </div>
            <a href="print.php?id=<?php echo $row['cid']?>" target="_blank">
<button class="btn btn-primary"><i class="fa fa-print "></i> Print</button> </a>  <br><br>
        </div>
    </div>
```

```
      </div>
   </div>
   <?php include('includes/footer.php');?>
   <script src="assets/js/jquery-1.11.1.js"></script>
   <script src="assets/js/bootstrap.js"></script>
</body>
</html>
<?php } ?>
```

**4.1.2 Student Home Page:**

```
 <?php
session_start();
error_reporting(1);
include("includes/config.php");
if(isset($_POST['submit'])){
   $regno=$_POST['regno'];
   $password=md5($_POST['password']);
$query=mysqli_query($bd, "SELECT * FROM students WHERE StudentRegno='$regno' and
password='$password'");
if(mysqli_num_rows($query)>0){
$num=mysqli_fetch_array($query);
$extra="change-password.php";//
$_SESSION['login']=$_POST['regno'];
$_SESSION['id']=$num['studentRegno'];
$_SESSION['sname']=$num['studentName'];
$uip=$_SERVER['REMOTE_ADDR'];
$status=1;
$log=mysqli_query($bd, "insert into userlog(studentRegno,userip,status)
values('".$_SESSION['login']."','$uip','$status')");
$host=$_SERVER['HTTP_HOST'];
$uri=rtrim(dirname($_SERVER['PHP_SELF']),'/\\');
header("location:http://$host$uri/$extra");
exit();
}else{
$_SESSION['errmsg']="Invalid Reg no or Password";
$extra="student_login.php";
$host  = $_SERVER['HTTP_HOST'];
$uri = rtrim(dirname($_SERVER['PHP_SELF']),'/\\');
header("location:http://$host$uri/$extra");
exit();
}
}?>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head><meta charset="utf-8" />
   <meta name="viewport" content="width=device-width, initial-scale=1, maximum-scale=1"
/>
   <meta name="description" content="" />
   <meta name="author" content="" />
   <title>Student Login</title>
   <link href="assets/css/bootstrap.css" rel="stylesheet" />
   <link href="assets/css/font-awesome.css" rel="stylesheet" />
   <link href="assets/css/style.css" rel="stylesheet" />
</head>
<body>
   <?php include('includes/header.php');?>
   <?php include('includes/menubarp.php');?>
   <div class="content-wrapper">
      <div class="container">
         <div class="row">
            <div class="col-md-12">
               <h4 class="page-head-line">Please Login To Enter </h4>
            </div>
         </div>
          <span style="color:red;" ><?php echo htmlentities($_SESSION['errmsg']); ?><?php
echo htmlentities($_SESSION['errmsg']="");?></span>
         <form name="admin" method="post">
         <div class="row">
            <div class="col-md-6">
               <label>Enter Reg no : </label>
                  <input type="text" name="regno" class="form-control"  />
                  <label>Enter Password :  </label>
                  <input type="password" name="password" class="form-control"  />
                  <hr />
                  <button type="submit" name="submit" class="btn btn-info"><span
class="glyphicon glyphicon-user"></span>  Log Me In </button> 
            </div>
            </form>
         </div>
      </div>
   </div>
   <?php include('includes/footer.php');?>
   <script src="assets/js/jquery-1.11.1.js"></script>
   <script src="assets/js/bootstrap.js"></script>
</body>
</html>
```

#### 4.1.2.1 Enroll For Course:

```
<?php
session_start();
include('includes/config.php');
if(strlen($_SESSION['login'])==0 or strlen($_SESSION['pcode'])==0){
header('location:index.php');
}else{
if(isset($_POST['submit'])){
$studentregno=$_POST['studentregno'];
$pincode=$_POST['Pincode'];
$course=$_POST['course'];
$semesterQuery = mysqli_query($bd, "SELECT semester FROM students WHERE
StudentRegno='" . $_SESSION['login'] . "'");
$semesterData = mysqli_fetch_assoc($semesterQuery);
$semester = $semesterData['semester'];
//$ret=mysqli_query($bd, "insert into
courseenrolls(studentRegno,pincode,session,department,level,course,semester)
values('$studentregno','$pincode','$session','$dept','$level','$course','$sem')");
$ret=mysqli_query($bd, "insert into courseenrolls(studentRegno,pincode,course,semester)
values('$studentregno','$pincode','$course','$semester')");
if($ret){
$_SESSION['msg']="Enroll Successfully !!";
}else{
  $_SESSION['msg']="Error : Not Enroll";
}
}?>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
    <meta charset="utf-8" />
<meta name="viewport" content="width=device-width, initial-scale=1, maximum-scale=1" />
    <meta name="description" content="" />
    <meta name="author" content="" />
    <title>Course Enroll</title>
    <link href="assets/css/bootstrap.css" rel="stylesheet" />
    <link href="assets/css/font-awesome.css" rel="stylesheet" />
    <link href="assets/css/style.css" rel="stylesheet" />
</head>
<body>
<?php include('includes/header.php');?>
    <!-- LOGO HEADER END-->
<?php if($_SESSION['login']!=""){
 include('includes/menubar.php');
```

```
}?>
<!-- MENU SECTION END-->
   <div class="content-wrapper">
      <div class="container">
          <div class="row">
              <div class="col-md-12">
                 <h1 class="page-head-line">Course Enroll </h1>
              </div>
           </div>
           <div class="row" >
            <div class="col-md-3"></div>
              <div class="col-md-6">
                 <div class="panel panel-default">
                 <div class="panel-heading">
                  Course Enroll
                 </div>
<font color="green" align="center"><?php echo htmlentities($_SESSION['msg']);?><?php
echo htmlentities($_SESSION['msg']="");?></font>
<?php $sql=mysqli_query($bd, "select * from students where
StudentRegno='".$_SESSION['login']."'");
$cnt=1;
while($row=mysqli_fetch_array($sql))
{ ?>
                  <div class="panel-body">
                 <form name="dept" method="post" enctype="multipart/form-data">
  <div class="form-group">
   <label for="studentname">Student Name  </label>
   <input type="text" class="form-control" id="studentname" name="studentname"
value="<?php echo htmlentities($row['studentName']);?>" />
 </div>
<div class="form-group">
   <label for="studentregno">Student Reg No  </label>
   <input type="text" class="form-control" id="studentregno" name="studentregno"
value="<?php echo htmlentities($row['StudentRegno']);?>" placeholder="Student Reg no"
readonly />
 </div>
<div class="form-group">
   <label for="Pincode">Pincode  </label>
   <input type="text" class="form-control" id="Pincode" name="Pincode" readonly
value="<?php echo htmlentities($row['pincode']);?>" required />
 </div>
<div class="form-group">
   <label for="Pincode">Student Photo  </label>
```

```
   <?php if($row['studentPhoto']==""){ ?>
   <img src="studentphoto/noimage.png" width="200" height="200"><?php } else {?>
   <img src="studentphoto/<?php echo htmlentities($row['studentPhoto']);?>" width="200"
height="200">
   <?php } ?>
  </div>
 <?php } ?>
<div class="form-group">
    <label for="Course">Course  </label>
    <!-- <select class="form-control" name="course" id="course"
onBlur="courseAvailability()" required="required">
   <option value="">Select Course</option>    -->
   <select class="form-control" name="course" id="course" required="required">
    <option value="">Select Course</option>
    <?php
    $semesterQuery = mysqli_query($bd, "SELECT semester FROM students WHERE
StudentRegno='" . $_SESSION['login'] . "'");
    $semesterData = mysqli_fetch_assoc($semesterQuery);
    $sem = $semesterData['semester'];
    //$sql = mysqli_query($bd, "select courseName from course where semester = '$sem'");
   $sql = mysqli_query($bd, "SELECT c.courseName
   FROM course c
   CROSS JOIN students s
   LEFT JOIN courseenrolls ce ON c.courseName = ce.course AND s.StudentRegno =
ce.studentRegno AND s.semester = ce.semester
   WHERE s.StudentRegno = '" . $_SESSION['login'] . "'
   AND s.semester = '$sem'
   AND ce.course IS NULL
   AND c.semester = '$sem';
   ");
    while($row=mysqli_fetch_array($sql)){
?>
<option value="<?php echo htmlentities($row['courseName']);?>"><?php echo
htmlentities($row['courseName']);?></option>
<?php } ?>
    </select>
    <span id="course-availability-status1" style="font-size:12px;">
  </div>
 <button type="submit" name="submit" id="submit" class="btn btn-default">Enroll</button>
</form>
                        </div>
                        </div>
                </div>
```

```
            </div>
          </div>
        </div>
          </div>
  <?php include('includes/footer.php');?>
    <script src="assets/js/jquery-1.11.1.js"></script>
    <script src="assets/js/bootstrap.js"></script>
<script>
function courseAvailability() {
$("#loaderIcon").show();
jQuery.ajax({
url: "check_availability.php",
data:'cid='+$("#course").val(),
type: "POST",
success:function(data){
$("#course-availability-status1").html(data);
$("#loaderIcon").hide();
},
error:function (){}
});
}
</script>
</body>
</html>
<?php } ?>
```

#### 4.1.2.1.1 Pin Code Verification

```
<?php
session_start();
include('includes/config.php');
if(strlen($_SESSION['login'])==0){
header('location:index.php');
}else{
date_default_timezone_set('Asia/Kolkata');// change according timezone
$currentTime = date( 'd-m-Y h:i:s A', time () );
if(isset($_POST['submit'])){
$sql=mysqli_query($bd, "SELECT * FROM  students where
pincode='".trim($_POST['pincode'])."' && StudentRegno='".$_SESSION['login']."'");
$num=mysqli_fetch_array($sql);
if($num>0){
$_SESSION['pcode']=$_POST['pincode'];
header("location:enroll.php");
}else{
$_SESSION['msg']="Error :Wrong Pincode. Please Enter a Valid Pincode !!";
```

```
}
}?>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
   <meta charset="utf-8" />
<meta name="viewport" content="width=device-width, initial-scale=1, maximum-scale=1" />
   <meta name="description" content="" />
   <meta name="author" content="" />
   <title>Pincode Verification</title>
   <link href="assets/css/bootstrap.css" rel="stylesheet" />
   <link href="assets/css/font-awesome.css" rel="stylesheet" />
   <link href="assets/css/style.css" rel="stylesheet" />
</head>
<body>
<?php include('includes/header.php');?>
<?php if($_SESSION['login']!=""){
 include('includes/menubar.php');
}?>
   <div class="content-wrapper">
      <div class="container">
           <div class="row">
               <div class="col-md-12">
                  <h1 class="page-head-line">Student Pincode Verification</h1>
               </div>
            </div>
            <div class="row" >
              <div class="col-md-3"></div>
               <div class="col-md-6">
                  <div class="panel panel-default">
                  <div class="panel-heading">
                    Pincode Verification
                  </div>
<font color="red" align="center"><?php echo htmlentities($_SESSION['msg']);?><?php echo
htmlentities($_SESSION['msg']="");?></font>
                  <div class="panel-body">
                 <form name="pincodeverify" method="post">
  <div class="form-group">
   <label for="pincode">Enter Pincode</label>
   <input type="password" class="form-control" id="pincode" name="pincode"
placeholder="Pincode" required />
  </div>
  <button type="submit" name="submit" class="btn btn-default">Verify</button>
```

```
                    <hr />
</form>
                     </div>
                     </div>
                </div>
              </div>
        </div>
    </div>
  <?php include('includes/footer.php');?>
    <script src="assets/js/jquery-1.11.1.js"></script>
    <script src="assets/js/bootstrap.js"></script>
</body>
</html>
<?php } ?>
```

**4.1.2.2 Enroll History:**

```
<?php
session_start();
include('includes/config.php');
?>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
    <meta charset="utf-8" />
<meta name="viewport" content="width=device-width, initial-scale=1, maximum-scale=1" />
    <meta name="description" content="" />
    <meta name="author" content="" />
    <title>Enroll History</title>
    <link href="assets/css/bootstrap.css" rel="stylesheet" />
    <link rel="stylesheet" href="https://pro.fontawesome.com/releases/v5.10.0/css/all.css" />
    <link href="assets/css/font-awesome.css" rel="stylesheet" />
    <link href="assets/css/style.css" rel="stylesheet" />
</head>
<body>
<?php include('includes/header.php');?>
<?php if($_SESSION['login']!=""){
 include('includes/menubar.php');
}?>
    <div class="content-wrapper">
        <div class="container">
            <div class="row">
                <div class="col-md-12">
                    <h1 class="page-head-line">Enroll History  </h1>
                </div>
```

```
            </div>
            <form action="display_search.php" align = "center;" method="GET">
           <div class="col-md-6 offset-md-3">
        <input type="text" align = "center" class="form-control" id="search" name="query" placeholder="Search" required autocomplete="off">
        <div align = "center" class="input-group-prepend"><br>
        <button type="submit" class="btn btn-default" align = "center">
        <i class="fal fa-search" align = "center" id="searchPrepend" style="cursor: pointer;"></i>
        </button><br><br>
        <script>
        var searchIcon = document.getElementById('searchPrepend');
        searchIcon.addEventListener('click', function() {
        window.location.href = 'display_search.php';
        });
        document.addEventListener('keydown', function(event) {
                if(event.key === 'Enter') {
                        searchIcon.click();
                }
        });
        </script>
        </div>
        </div>
        </form>
           <div class="row" >
           <div class="col-md-12">
              <div class="panel panel-default">
                 <div class="panel-heading">
                   Enroll History
                 </div>
                 <div class="panel-body">
                    <div class="table-responsive table-bordered">
                       <table class="table">
                          <thead>
                             <tr>
                                <th>#</th>
                                <th>Course Name </th>
                                <!--<th>Session </th>
                                <th> Department</th>
                                 <th>Level</th>-->
                                   <th>Semester</th>
                                 <th>Enrollment Date</th>
                             </tr>
```

```
                        </thead>
                        <tbody>
<?php
//$sql=mysqli_query($bd, "select courseenrolls.course as cid, course.courseName as
courname,session.session as session,department.department as dept,level.level as
level,courseenrolls.enrollDate as edate ,semester.semester as sem from courseenrolls join
course on course.id=courseenrolls.course join session on session.id=courseenrolls.session
join department on department.id=courseenrolls.department join level on
level.id=courseenrolls.level join semester on semester.id=courseenrolls.semester where
courseenrolls.studentRegno="'.$_SESSION['login']."'");
$sql=mysqli_query($bd, "SELECT
                ce.id AS cid,
                c.courseName AS courname,
                ce.enrollDate AS edate,
                ce.semester AS sem,
                st.studentName AS sname,
                st.StudentRegno AS sregno
                FROM
                courseenrolls ce
                JOIN course c ON c.courseName = ce.course
                JOIN semester s ON s.id = ce.semester
                JOIN students st ON st.StudentRegno = ce.studentRegno
                WHERE
                ce.parent = 1
                AND ce.counselor = 1 AND ce.studentRegno="'.$_SESSION['login']."'");
$cnt=1;
while($row=mysqli_fetch_array($sql))
{?>
                            <tr>
                                <td><?php echo $cnt;?></td>
                                <td><?php echo htmlentities($row['courname']);?></td>
                                <td><?php echo htmlentities($row['sem']);?></td>
                                 <td><?php echo htmlentities($row['edate']);?></td>
                            </tr>
<?php
$cnt++;
} ?>
                        </tbody>
                    </table>
                </div>
            </div>
        </div>
        <a href="print.php?id=<?php echo $row['cid']?>" target="_blank">
```

```
<button class="btn btn-primary"><i class="fa fa-print "></i> Print</button> </a>  <br><br>
              </div>
            </div>
          </div>
    </div>
  <?php include('includes/footer.php');?>
    <script src="assets/js/jquery-1.11.1.js"></script>
    <script src="assets/js/bootstrap.js"></script>
</body>
</html>
<?php ?>
```

**4.1.2.2.1 Search:**

```
<?php
session_start();
include('includes/config.php');
if(strlen($_SESSION['alogin'])==0){
header('location:index.php');
}?>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
    <meta charset="utf-8" />
<meta name="viewport" content="width=device-width, initial-scale=1, maximum-scale=1" />
    <meta name="description" content="" />
    <meta name="author" content="" />
    <title>Admin | Course</title>
    <link href="assets/css/bootstrap.css" rel="stylesheet" />
    <link href="assets/css/font-awesome.css" rel="stylesheet" />
    <link href="assets/css/style.css" rel="stylesheet" />
</head>
<body>
<?php include('includes/header.php');?>
<?php if($_SESSION['alogin']!=""){
 include('includes/menubar.php');
}?>
    <div class="content-wrapper">
    <div class="container" id="wrapper">
                    <div class="row">
                            <div class="col-md-3" id="sidebar">
                            </div>
                            <div class="col-md-9">
                            <div id="main-area">
                <div class="content-section">
```

```
<h5>Search Results:</h5><br>
   <?php
   if (isset($_GET['query'])) {
      $searchQuery = urldecode($_GET['query']);
   $sql1 = mysqli_query($bd, "SELECT
   c.courseName AS courname,
   ce.enrollDate AS edate,
   ce.semester AS sem
   FROM
   course c
   JOIN courseenrolls ce ON c.courseName = ce.course
   WHERE
   ce.parent = 1
   AND ce.counselor = 1
   AND ce.semester = '$searchQuery'
   AND ce.studentRegno="'.$_SESSION['login']."'");
    $cnt=1;
   if($sql1->num_rows > 0) {
            echo "<br><h5>Details: </h5><br>";
#Reg NoStudent Name Pincode        Counselor      Reg Date       Action
            if ($sql1->num_rows > 0) {
                  echo "<table border = 5 class='table'>";
                  echo "<thead>";
                  echo "<tr>";
                  echo "<th>#</th>";
                  echo "<th>Course Name</th>";
                  echo "<th>Semester</th>";
                  echo "<th>Reg Date</th>";
                  echo "</tr>";
                  echo "</thead>";
                  echo "<tbody>";
                  while ($row = $sql1->fetch_assoc()) {
                        echo "<tr>";
                        echo "<td>" . $cnt . "</td>";
                        echo "<td>" . $row['courname'] . "</td>";
                        echo "<td>" . $row['sem'] . "</td>";
                        echo "<td>" . $row['edate'] . "</td>";
                        echo "<td>" . $row['creationdate'] . "</td>";
                        echo "</tr>";
      $cnt++;
    }
            echo "</tbody>";
            echo "</table>";
```

```
} else {
        echo "<p>No results found for your search query.</p>";
        }
        }else{
                echo "<h6> Invalid Query.<br><br><i> Please give a username or hackathon
name</i></h6>";
                }
        }
        ?>
        </div> <!-- Content Section End -->
        <br><br>
        <div class="footer">
                <div class="row">
                        <div class="col-lg-4 col-md-12 order-lg-2"></div>
         <div class="col-lg-8 col-md-12 order-lg-1 social-links">
         <div class="social-links">
        <a href="https://bvrithyderabad.ac.in">
        <i class="fas fa-globe"></i> Website
        </a>
        <a href="mailto:aiml20@bvrithyderabad.edu.in">
        <i class="fal fa-envelope"></i> Email
        </a>
        <!-- <a href="https://web.facebook.com/kmonlineworks">
        <i class="fab fa-facebook"></i> Facebook
                                                                        </a> -->
                                </div>
                        </div>
                </div>
   </div>
  <?php include('includes/footer.php');?>
   <script src="assets/js/jquery-1.11.1.js"></script>
   <script src="assets/js/bootstrap.js"></script>
</body>
</html>
<?php ?>
```

**4.1.2.3 My Profile**

```
<?php
session_start();
include('includes/config.php');
if(strlen($_SESSION['login'])==0){
header('location:index.php');
}else{
if(isset($_POST['submit'])){
```

```
$studentname=$_POST['studentname'];
$photo=$_FILES["photo"]["name"];
$cgpa=$_POST['cgpa'];
$cname=$_POST['cname'];
$sem=$_POST['semester'];
move_uploaded_file($_FILES["photo"]["tmp_name"],"studentphoto/".$_FILES["photo"]["na
me"]);
$ret=mysqli_query($bd, "update students set
studentName='$studentname',studentPhoto='$photo',cgpa='$cgpa',CName='$cname',semester
='$sem' where StudentRegno='".$_SESSION['login']."'");
if($ret){
$_SESSION['msg']="Student Record updated Successfully !!";
}else{
  $_SESSION['msg']="Error : Student Record not update";
}
}?>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
    <meta charset="utf-8" />
<meta name="viewport" content="width=device-width, initial-scale=1, maximum-scale=1" />
    <meta name="description" content="" />
    <meta name="author" content="" />
    <title>Student Profile</title>
    <link href="assets/css/bootstrap.css" rel="stylesheet" />
    <link href="assets/css/font-awesome.css" rel="stylesheet" />
    <link href="assets/css/style.css" rel="stylesheet" />
</head>
<body>
<?php include('includes/header.php');?>
<?php if($_SESSION['login']!=""){
 include('includes/menubar.php');
}?>
 <div class="content-wrapper">
       <div class="container">
            <div class="row">
                <div class="col-md-12">
                    <h1 class="page-head-line">Student Registration  </h1>
                </div>
              </div>
              <div class="row" >
                <div class="col-md-3"></div>
                  <div class="col-md-6">
```

```
                    <div class="panel panel-default">
                    <div class="panel-heading">
                      Student Registration
                    </div>
<font color="green" align="center"><?php echo htmlentities($_SESSION['msg']);?><?php
echo htmlentities($_SESSION['msg']="");?></font>
<?php $sql=mysqli_query($bd, "select * from students where
StudentRegno='".$_SESSION['login']."'");
$cnt=1;
while($row=mysqli_fetch_array($sql))
{ ?>
                    <div class="panel-body">
                   <form name="dept" method="post" enctype="multipart/form-data">
   <div class="form-group">
    <label for="studentname">Student Name  </label>
    <input type="text" class="form-control" id="studentname" name="studentname"
value="<?php echo htmlentities($row['studentName']);?>"  />
  </div>
 <div class="form-group">
    <label for="studentregno">Student Reg No  </label>
    <input type="text" class="form-control" id="studentregno" name="studentregno"
value="<?php echo htmlentities($row['StudentRegno']);?>" placeholder="Student Reg no"
readonly />
  </div>
<!-- <div class="form-group">
    <label for="Pincode">Pincode  </label>
    <input  type="text"  class="form-control"  id="Pincode"  name="Pincode"  readonly
value="<?php echo htmlentities($row['pincode']);?>" required />
  </div>    -->
<div class="form-group">
    <label for="CGPA">CGPA  </label>
    <input  type="text"  class="form-control"  id="cgpa"  name="cgpa"    value="<?php echo
htmlentities($row['cgpa']);?>" required />
  </div>
<div class="form-group">
    <label for="Pincode">Student Photo  </label>
   <?php if($row['studentPhoto']==""){ ?>
   <img src="studentphoto/noimage.png" width="200" height="200"><?php } else {?>
   <img src="studentphoto/<?php echo htmlentities($row['studentPhoto']);?>" width="200"
height="200">
   <?php } ?>
  </div>
<div class="form-group">
```

```
   <label for="Pincode">Upload New Photo  </label>
   <input type="file" class="form-control" id="photo" name="photo"   value="<?php echo
htmlentities($row['studentPhoto']);?>" />
  </div>
  <div class="form-group">
  <div class="form-group">
  <label for="semester">Semester</label>
                        <select class="form-control" id="semester" name="semester" required>
                          <?php
                          $sql = "SELECT semester FROM semester";
                          $result = $bd->query($sql);
                          while ($row = $result->fetch_assoc()) {
                         echo"<option value='{$row['semester']}'>{$row['semester']}</option>";
                          }
                          ?>
                          </select>
                         </div>
  <label for="cname">Counselor</label>
                          <select class="form-control" id="cname" name="cname" required>
                          <?php
                          $sql = "SELECT CName FROM counselor";
                          $result = $bd->query($sql);
                          while ($row = $result->fetch_assoc()) {
                          echo "<option value='{$row['CName']}'>{$row['CName']}</option>";
                          }
                          ?>
                          </select>
                         </div>
                         <button type="submit" name="submit" id="submit" class="btn btn-
default">Update</button>
  <?php } ?>
</form> </div></div>
                 </div>
           </div>
          </div>
       </div>
   </div>
  <?php include('includes/footer.php');?>
   <script src="assets/js/jquery-1.11.1.js"></script>
   <script src="assets/js/bootstrap.js"></script>
</body>
</html>
<?php } ?>
```

**4.1.3 Parent Approval Page:**

```
<?php
session_start();
include('includes/config.php');
if(isset($_POST['submit'])) {
   $pincode = $_POST['pincode'];
   $query = "SELECT * FROM students WHERE ParentPincode = '$pincode'";
   $result = mysqli_query($bd, $query);
   if(mysqli_num_rows($result) > 0) {
      $_SESSION['pincode'] = $pincode;
      $_SESSION['student_data'] = mysqli_fetch_assoc($result);
   } else {
      $_SESSION['error'] = "Invalid Pincode!";
   }
}?>
<!DOCTYPE html>
<html>
<head>
   <title>Parent Approval</title>
   <!-- Add your CSS and other meta tags -->
</head>
<body>
   <h1>Parent Approval</h1>
   <?php if(isset($_SESSION['error'])): ?>
      <div><?php echo $_SESSION['error']; ?></div>
      <?php unset($_SESSION['error']); ?>
   <?php endif; ?>
   <form method="post" action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]);
?>">
      <label for="pincode">Enter Child's Pincode:</label><br>
      <input type="text" id="pincode" name="pincode" required><br><br>
      <input type="submit" name="submit" value="Submit">
   </form> <?php if(isset($_SESSION['student_data'])): ?>
      <h2>Student Details:</h2>
      <p>Student Name: <?php echo $_SESSION['student_data']['StudentName']; ?></p>
      <p>Student Reg No.: <?php echo $_SESSION['student_data']['StudentRegno']; ?></p>
      <!-- Add more details to display -->
      <!-- Here you can add an approval button -->
      <!-- For example: -->
      <form method="post" action="process_approval.php">
         <input type="hidden" name="student_id" value="<?php echo
$_SESSION['student_data']['id']; ?>">
         <input type="submit" name="approve" value="Approve">
```

```
      </form>
   <?php endif; ?>
</body>
</html>
```

**4.2 Backend Connector:**

**4.2.1 Database Connections:**

```
-- phpMyAdmin SQL Dump
-- version 4.8.3
-- https://www.phpmyadmin.net/
-- Host: 127.0.0.1
-- Generation Time: Jun 03, 2020 at 04:03 PM
-- Server version: 10.1.37-MariaDB
-- PHP Version: 7.2.12
SET SQL_MODE = "NO_AUTO_VALUE_ON_ZERO";
SET AUTOCOMMIT = 0;
START TRANSACTION;
SET time_zone = "+00:00";
/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT
*/;
/*!40101SET
@OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION
*/;
/*!40101 SET NAMES utf8mb4 */;
-- Database: onlinecourse
-- Table structure for table admin
CREATE TABLE admin (
  id int(11) NOT NULL,
  username varchar(255) NOT NULL,
  password varchar(255) NOT NULL,
  creationDate timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP,
  updationDate varchar(255) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
-- Dumping data for table admin
INSERT INTO admin (id, username, password, creationDate, updationDate) VALUES
(1, 'admin', '21232f297a57a5a743894a0e4a801fc3', '2020-01-24 16:21:18', '03-06-2020
07:09:07 PM');
-- Table structure for table counselor
CREATE TABLE counselor (
  Cid varchar(100) NOT NULL,
  CName varchar(255) NOT NULL,
  creationDate timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

```
-- Table structure for table course
CREATE TABLE course (
  id int(11) NOT NULL,
  courseCode varchar(255) NOT NULL,
  courseName varchar(255) NOT NULL,
  courseUnit varchar(255) NOT NULL,
  semester varchar(255) NOT NULL,
  creationDate timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP,
  updationDate varchar(255) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
-- Table structure for table courseenrolls
CREATE TABLE courseenrolls (
  id int(11) NOT NULL,
  studentRegno varchar(255) NOT NULL,
  pincode varchar(255) NOT NULL,
  semester       varchar(255) NOT NULL,
  course varchar(255) NOT NULL,
  parent int(10) DEFAULT 0,
  counselor int(10) DEFAULT 0,
  enrollDate timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
-- -- Table structure for table department
-- CREATE TABLE department (
--  id int(11) NOT NULL,
--  department varchar(255) NOT NULL,
--  creationDate timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP
-- ) ENGINE=InnoDB DEFAULT CHARSET=latin1;
-- Table structure for table counselor
-- Table structure for table semester
CREATE TABLE semester (
  id int(11) NOT NULL,
  semester varchar(255) NOT NULL,
  creationDate timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP,
  updationDate varchar(255) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
-- Table structure for table session
-- CREATE TABLE session (
--  id int(11) NOT NULL,
--  session varchar(255) NOT NULL,
--  creationDate timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP
-- ) ENGINE=InnoDB DEFAULT CHARSET=latin1;
-- Table structure for table students
CREATE TABLE students (
```

```
  StudentRegno varchar(255) NOT NULL,
  studentPhoto varchar(255) DEFAULT NULL,
  password varchar(255) NOT NULL,
  studentName varchar(255) NOT NULL,
  pincode varchar(255) NOT NULL,
  CName varchar(100) NOT NULL,
  semester varchar(255) NOT NULL,
  cgpa decimal(10,2) NOT NULL,
  creationdate timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP,
  updationDate varchar(255) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
-- Table structure for table userlog
CREATE TABLE userlog (
  id int(11) NOT NULL,
  studentRegno varchar(255) NOT NULL,
  userip binary(16) NOT NULL,
  loginTime timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP,
  logout varchar(255) NOT NULL,
  status int(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
-- Indexes for dumped tables
-- Indexes for table admin
ALTER TABLE  admin
ADD PRIMARY KEY (id);
-- Indexes for table course
ALTER TABLE course
ADD PRIMARY KEY (id);
-- Indexes for table courseenrolls
ALTER TABLE courseenrolls
ADD PRIMARY KEY (id);
ALTER TABLE counselor
  ADD PRIMARY KEY (Cid);
-- -- Indexes for table department
-- ALTER TABLE department
--  ADD PRIMARY KEY (id);
-- Indexes for table level
-- ALTER TABLE level
--  ADD PRIMARY KEY (id);
-- Indexes for table semester
ALTER TABLE semester
ADD PRIMARY KEY (id);
-- Indexes for table session
-- ALTER TABLE session
```

```
--  ADD PRIMARY KEY (id);
-- Indexes for table students
ALTER TABLE students
  ADD PRIMARY KEY (StudentRegno);
-- Indexes for table userlog
ALTER TABLE userlog
ADD PRIMARY KEY (id);
-- AUTO_INCREMENT for dumped tables
-- AUTO_INCREMENT for table admin
ALTER TABLE admin
  MODIFY id int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=2;
-- AUTO_INCREMENT for table course
ALTER TABLE course
  MODIFY id int(11) NOT NULL AUTO_INCREMENT;
-- AUTO_INCREMENT for table courseenrolls
ALTER TABLE courseenrolls
  MODIFY id int(11) NOT NULL AUTO_INCREMENT;
-- AUTO_INCREMENT for table department
-- ALTER TABLE department
--  MODIFY id int(11) NOT NULL AUTO_INCREMENT;
-- AUTO_INCREMENT for table level
-- ALTER TABLE level
--  MODIFY id int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=5;
-- AUTO_INCREMENT for table semester
ALTER TABLE semester
  MODIFY id int(11) NOT NULL AUTO_INCREMENT;
-- AUTO_INCREMENT for table session
-- ALTER TABLE session
--  MODIFY id int(11) NOT NULL AUTO_INCREMENT;
-- AUTO_INCREMENT for table userlog
ALTER TABLE userlog
  MODIFY id int(11) NOT NULL AUTO_INCREMENT;
COMMIT;
/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
```

**4.2.2 Logout Connections:**

```
<?php
session_start();
include("includes/config.php");
$_SESSION['login']=="";
date_default_timezone_set('Asia/Kolkata');
$ldate=date( 'd-m-Y h:i:s A', time () );
```

```
mysqli_query($bd, "UPDATE userlog SET logout = '$ldate' WHERE studentRegno =
'".$_SESSION['login']."' ORDER BY id DESC LIMIT 1");
session_unset();
$_SESSION['errmsg']="You have successfully logout";
?>
<script language="javascript">
document.location="http://localhost/online-course-
registration/Online%20Course%20Registration/index.php";
</script>
```

# 5. TESTING

## 5.1 TEST CASES

### 5.1.1 Positive Testcases

| ID | Description | Test Steps | Data | Expected Results | Actual Results | Pass/Fail |
|---|---|---|---|---|---|---|
| PT001 | Login Successful | 1. Navigate to the login page.<br>2. Enter valid username and password.<br>3. Click 'Login'. | Username: valid_username Password: valid_password | User is logged in and redirected to the dashboard or profile page. | User is redirected to the dashboard. | Pass |
| PT002 | View Enrolled Courses | 1. Login as a registered user.<br>2. Navigate to the enrolled courses section. | N/A | Enrolled courses for the user are displayed accurately. | Displayed courses match the enrolled courses. | Pass |
| PT003 | Update Profile | 1. Login as a registered user.<br>2. Go to the profile settings or edit profile section.<br>3. Update profile information<br>4. Save changes. | Updated profile information | Profile information is successfully updated and saved. | Profile information updated and saved successfully. | Pass |
| PT004 | Ready to Enroll if PIN Matches | 1. Enter the PIN to enroll for a course.<br>2. Check if the entered PIN matches the system's PIN for enrollment. | PIN entered by the student | If the entered PIN matches, the student can proceed to enroll for the course. | Entered PIN matches the system's PIN. | Pass |

### 5.1.2 Negative Testcases

| ID | Description | Test Steps | Data | Expected Results | Actual Results | Pass/Fail |
|---|---|---|---|---|---|---|
| NT001 | Incorrect PIN: Prevents Course Registration | 1. Attempt to enroll for a course with an incorrect PIN.<br>2. Confirm that the entered PIN does not match the system's PIN. | Incorrect PIN entered by the student | Enrollment for the course is not allowed due to the mismatched PIN. | Enrollment is blocked due to incorrect PIN entry. | Pass |
| NT002 | Incorrect Credentials: Prevent Login | 1. Attempt to log in with invalid username/password. | Incorrect username/password combination | System denies access and does not allow the user to log in. | Login is denied with a proper error message. | Pass |

## 5.2 RESULTS

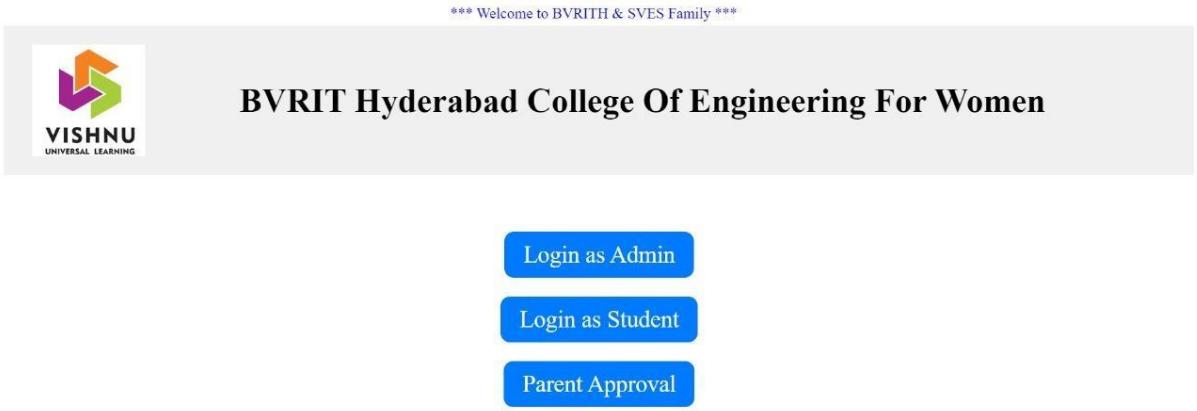


**Fig 5.2.1 HOME PAGE**

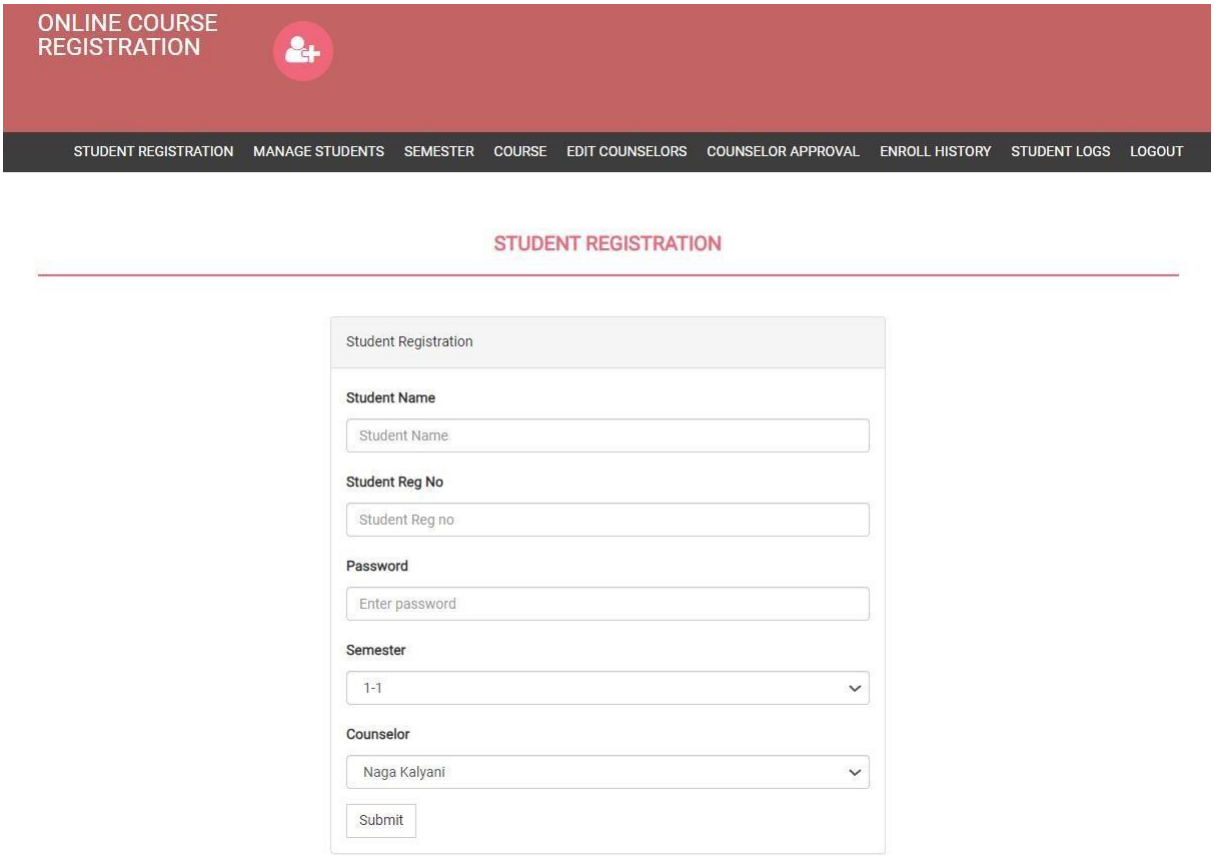


**Fig 5.2.2 ADMIN PAGE**

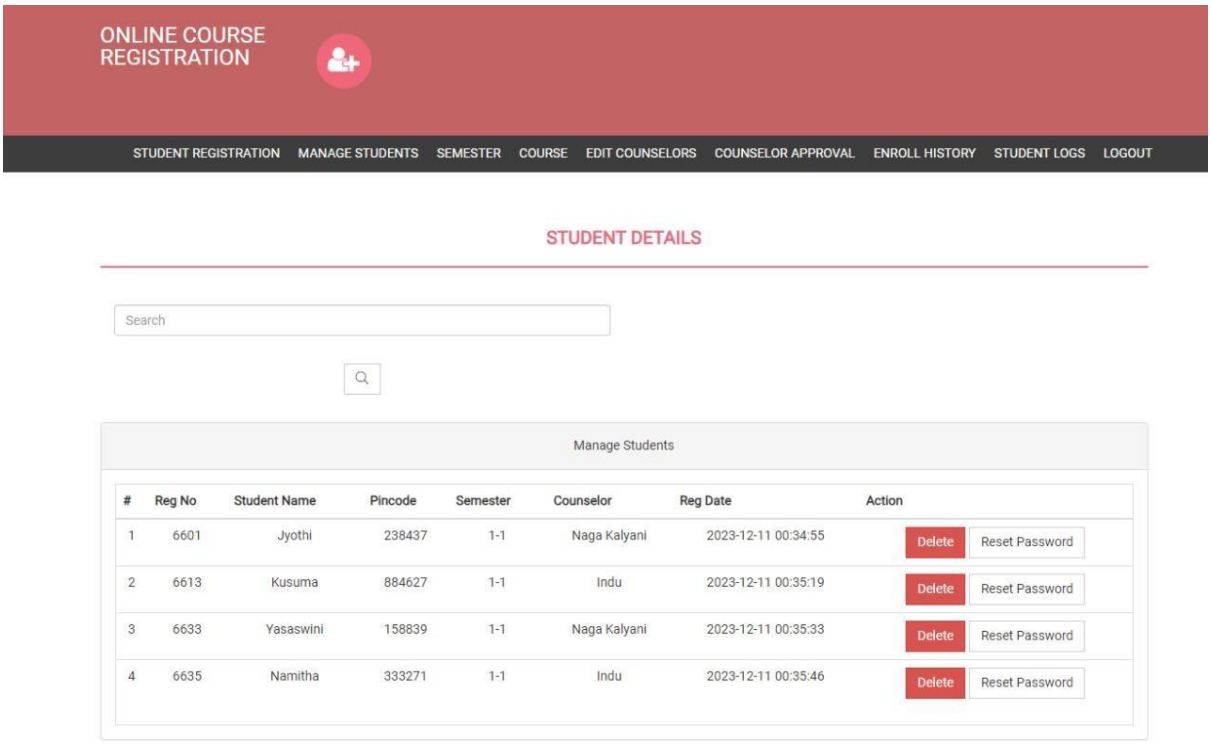


**Fig 5.2.3 STUDENT REGISTRATION**

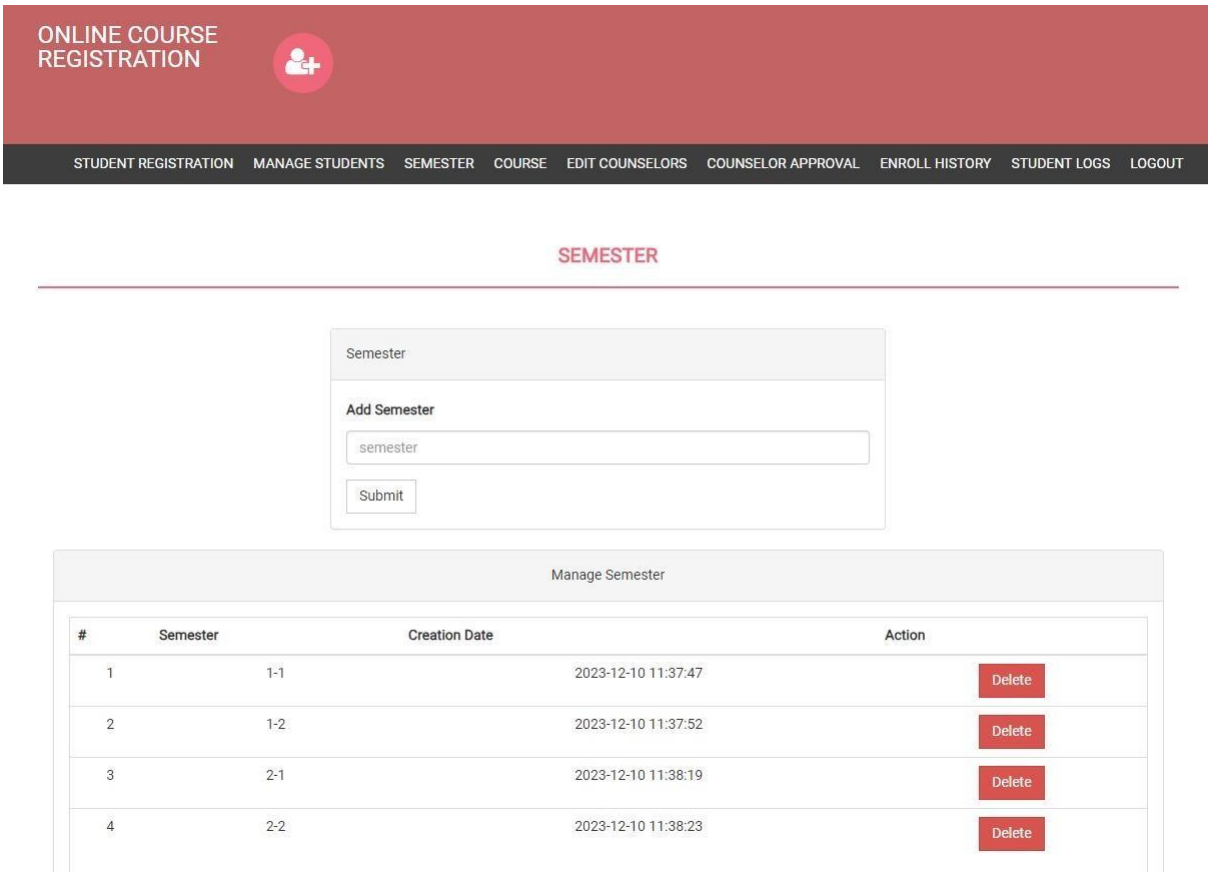


**Fig 5.2.4 ADD SEMESTERS**

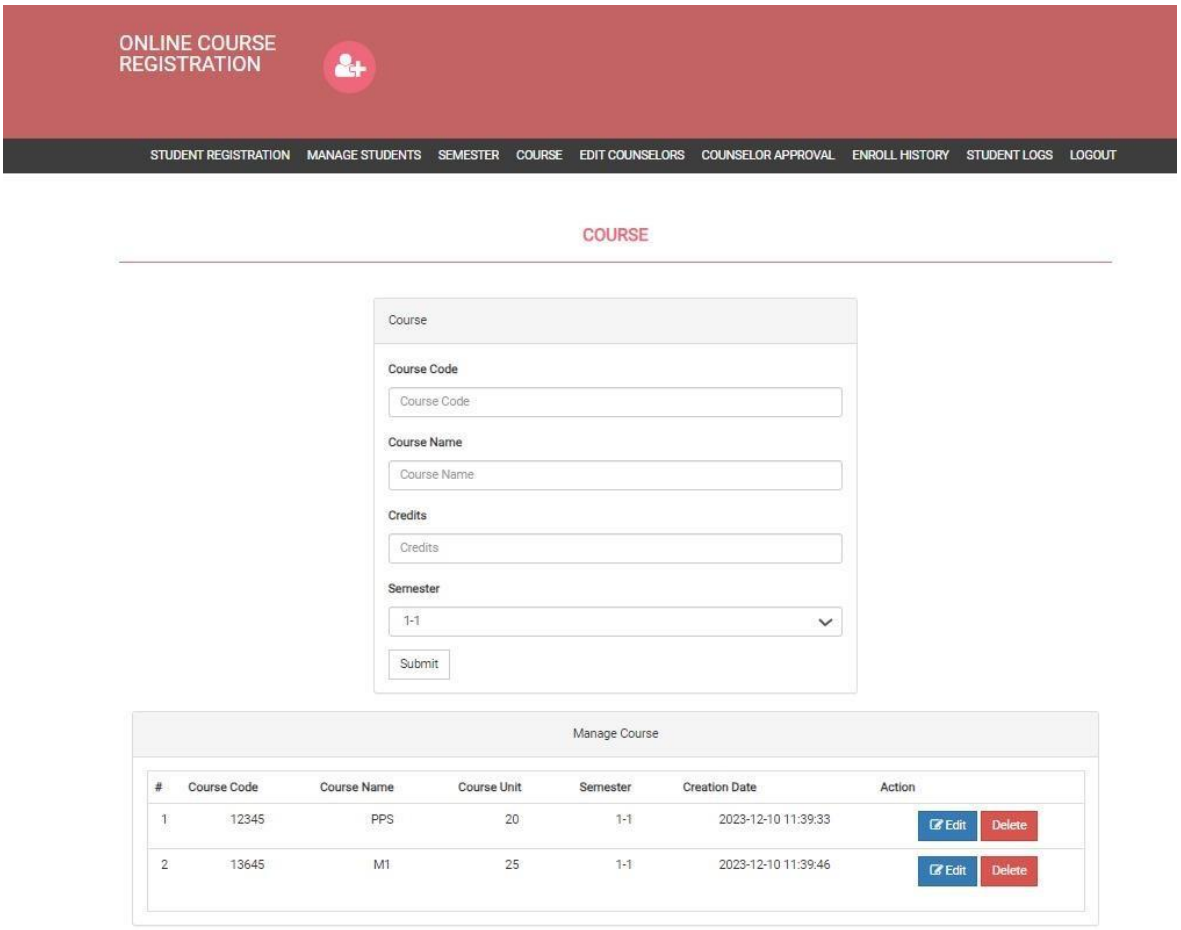


**Fig 5.2.5 ADD COURSES**

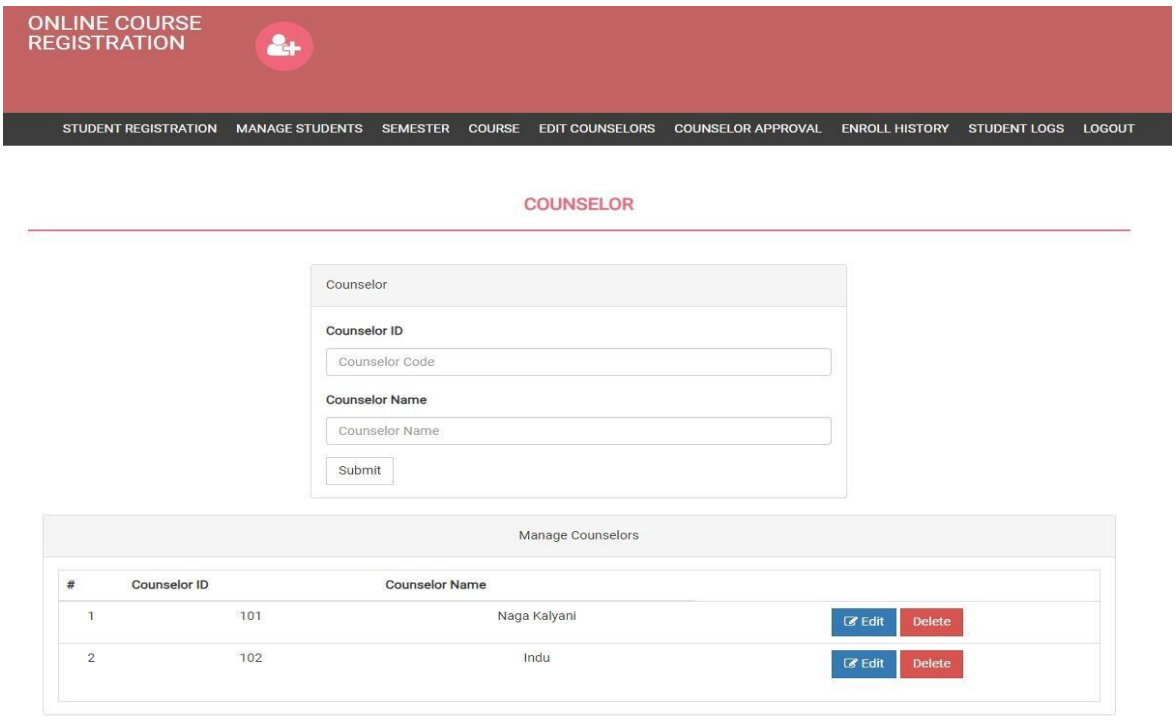


**Fig 5.2.6 EDIT COUNSELOR**

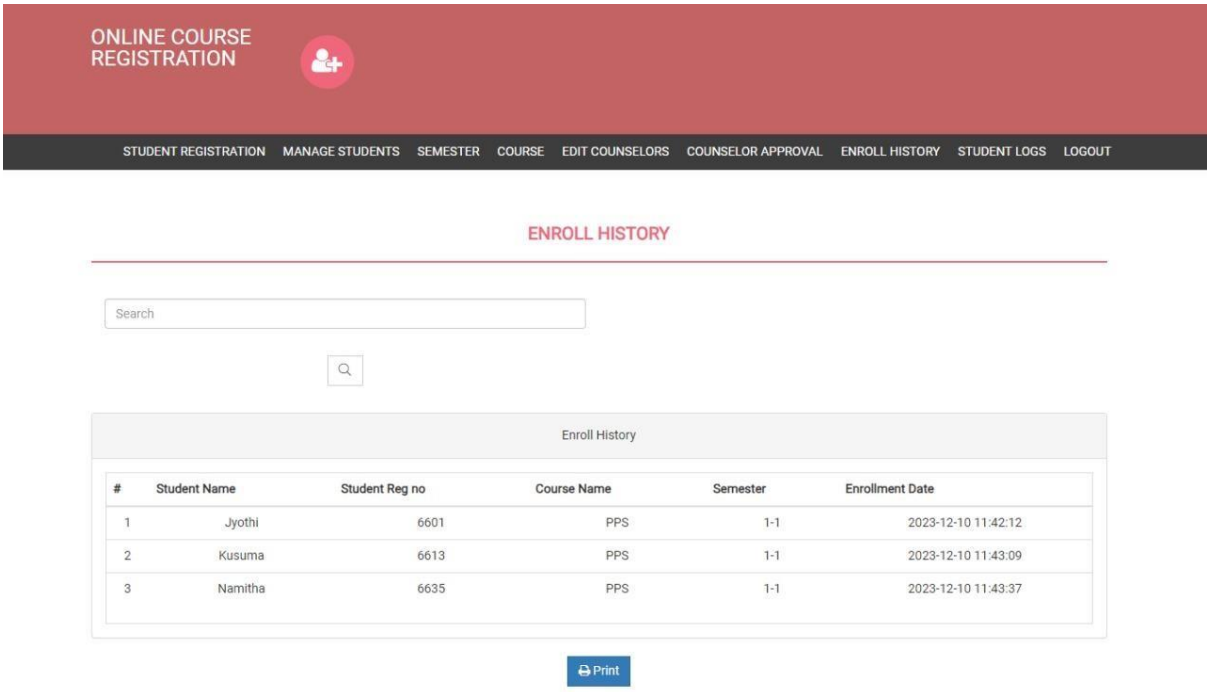


**Fig 5.2.7 ADMIN SEARCH RESULTS**

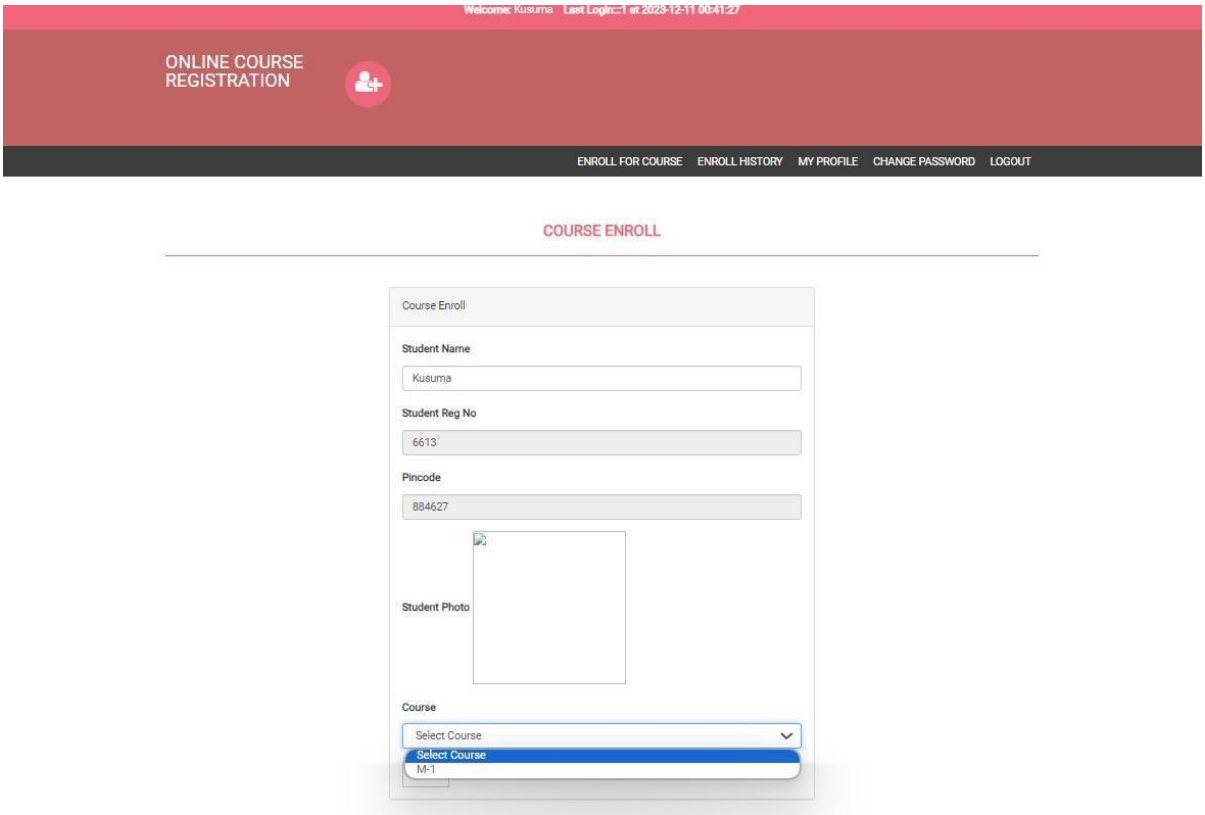


**Fig 5.2.8 COURSE ENROLL**

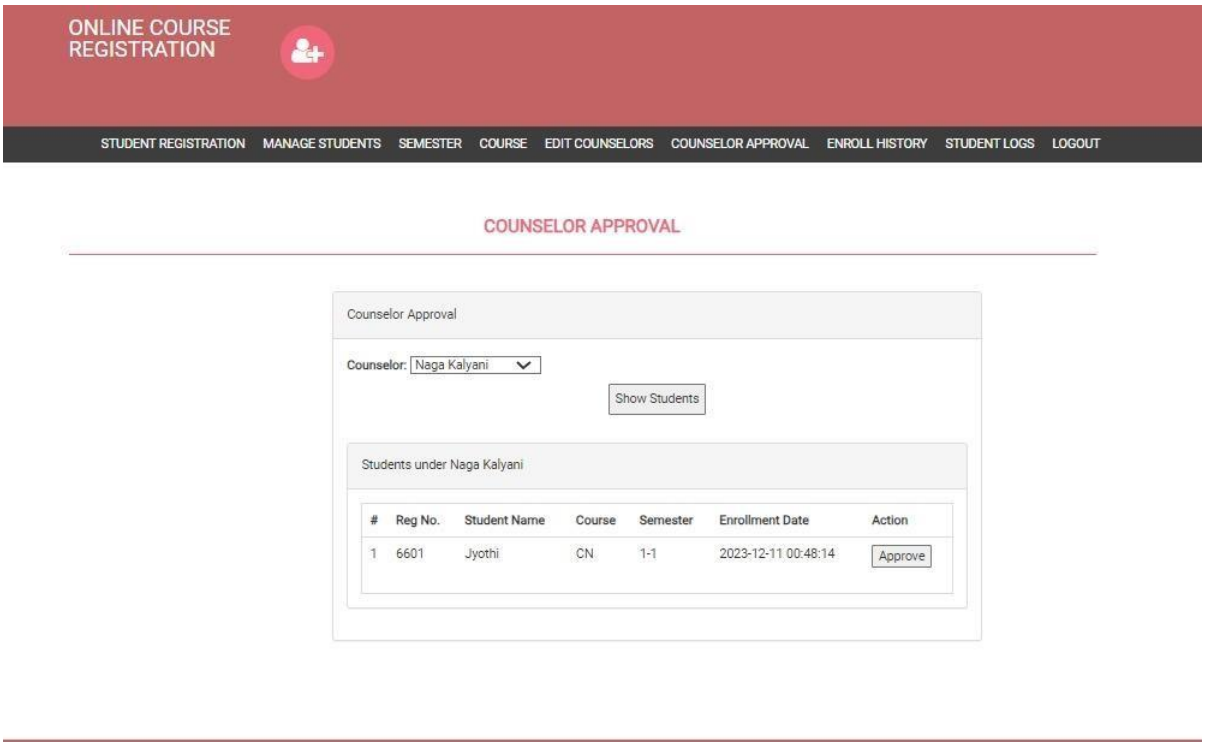


**Fig 5.2.9 COUNSELOR APPROVAL**

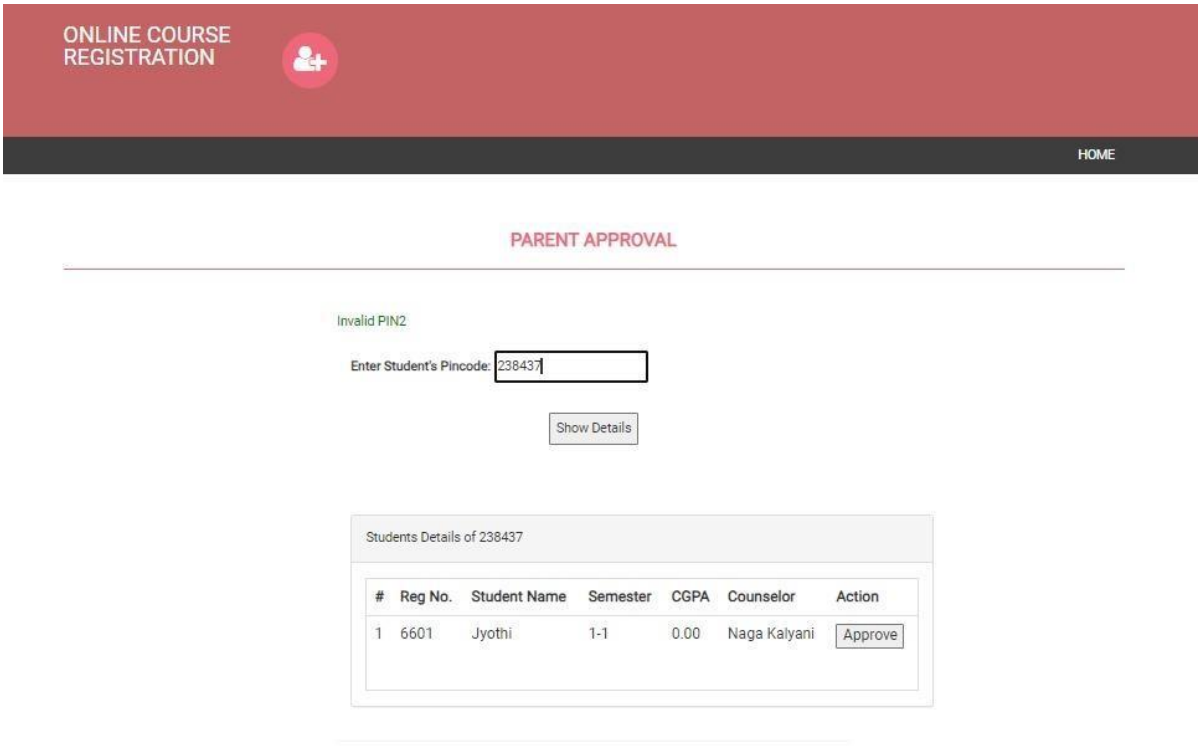


**Fig 5.2.10 PARENT APPROVAL**

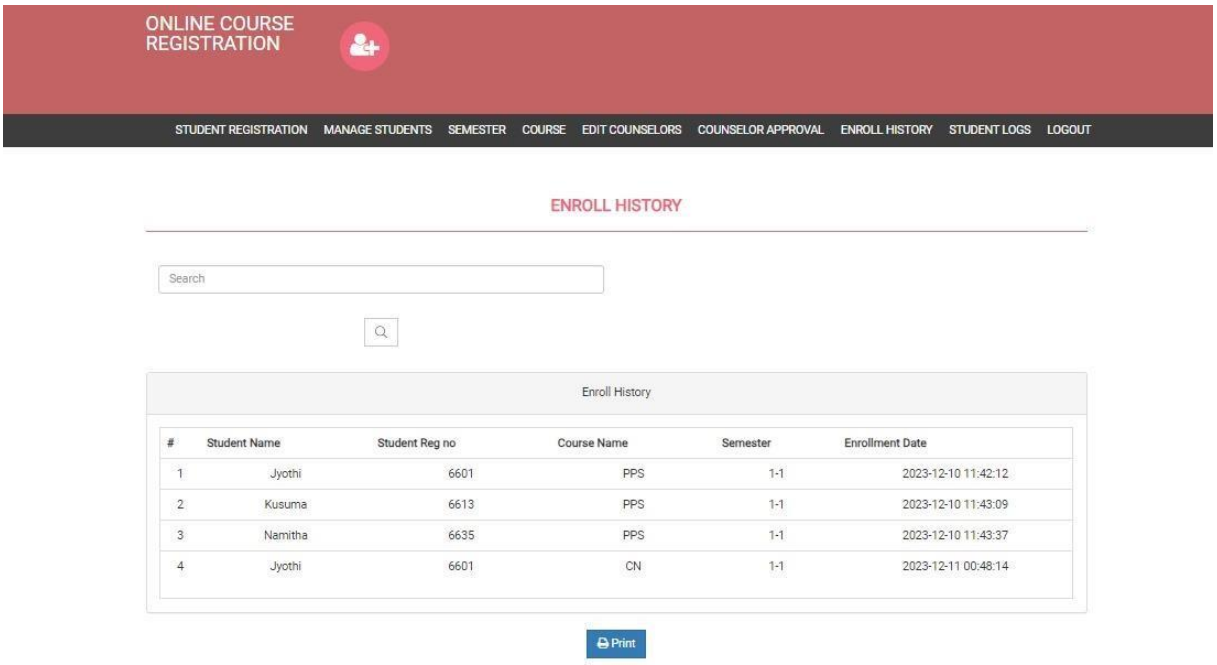


**Fig 5.2.11 ENROLLMENT HISTORY**

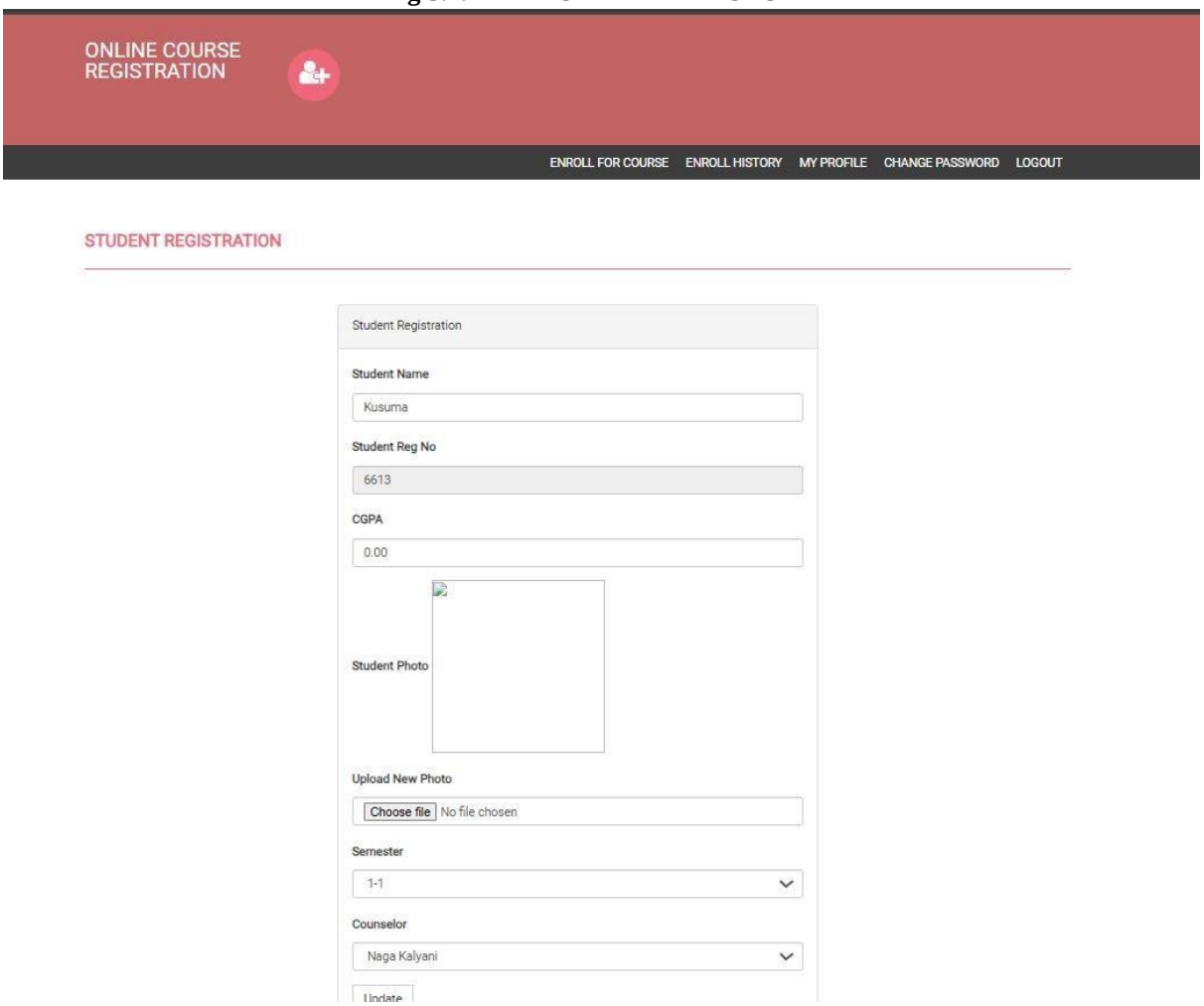


**Fig 5.2.12 VIEW STUDENT PROFILE**

# 5. CONCLUSION & FUTURE SCOPE

The development and implementation of a course registration portal bring several benefits to educational institutions, students, and administrators alike. The system streamlines the registration process, reduces manual efforts, minimizes errors, and enhances overall efficiency. The portal facilitates better communication between students and administrators, providing a user-friendly interface for course selection and registration. Additionally, the portal can generate valuable data and insights for educational institutions, helping them make informed decisions about course offerings, resource allocation, and overall curriculum planning. The automation of registration processes allows for better utilization of time and resources, enabling staff to focus on more strategic tasks. In conclusion, the course registration portal contributes to a more organized, efficient, and transparent registration process, ultimately improving the overall academic experience for both students and administrators.

**Future Scope:**

**1. Integration with Learning Management Systems (LMS):** The portal can be integrated with LMS platforms to provide a seamless experience for students, incorporating features such as access to course materials, assignments, and grades within the registration portal.

**2. Mobile Application Development:** Developing a mobile application for the course registration portal can enhance accessibility, allowing students to register for courses, receive notifications, and access relevant information on the go.

**3. Data Analytics and Predictive Modeling:** Implementing advanced analytics and predictive modeling can help institutions analyze historical data to forecast course demand, optimize resource allocation, and identify trends that can inform future curriculum planning.

**4. Enhanced User Experience:** Continuously refining the user interface and experience based on feedback from students and administrators can contribute to higher user satisfaction and increased adoption of the registration portal.

**5. Integration with External Systems:** Integration with external systems, such as alumni databases, career services, and internship platforms, can create a more holistic educational ecosystem, providing students with a comprehensive set of tools and resources.

**6. Cybersecurity Measures:** Strengthening cybersecurity measures to protect sensitive student data is crucial. Regular updates and improvements to security protocols will be necessary to ensure the integrity of system.

**7. Artificial Intelligence (AI) for Personalized Recommendations:** Implementing AI algorithms can provide personalized course recommendations based on a student's academic history, preferences, and career goals, aiding in more informed decision-making during the course selection process.

# 7. REFERENCES

**[1]** https://www.scribd.com/document/444555964/online-course-reservation-system
**[2]** https://www.slideshare.net/ChammaJabeedkhan/online-course-reservation-system
**[3]** https://dokumen.tips/documents/online-course-reservation-system.html?page=17