A
PROJECT REPORT ON

STUDENT RECORD MANAGEMENT SYSTEM

By

Himanshubhai B Amaliyar (CE-012) (20CEUTG127)

Dhirenkumar A Chaudhari (CE-025) (20CEUTG004)

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Guided by:

Prof. Ashish K. Gor,
Assistant Professor,
Dept. of Comp. Engg.

Faculty of Technology
Department of Computer Engineering
Dharmsinh Desai University

Faculty of Technology
Department of Computer Engineering
Dharmsinh Desai University

CERTIFICATE

This is to certify that the practical / term work carried out in the subject of

System Design Practice and recorded in this journal is the

bonafide work of

Himanshubhai B Amaliyar (CE-012) (20CEUTG127)

Dhirenkumar A Chaudhari (CE-025) (20CEUTG004)

of B.Tech semester **VI** in the branch of **Computer Engineering**

during the academic year **2022-2023**.

Prof. Ashish K. Gor
Assistant Professor
Computer Engg. Department
Faculty of Technology
D.D.U., Nadiad

Dr. C. K. Bhensdadia
Professor and HoD,
Computer Engg. Department
Faculty of Technology
D.D.U., Nadiad

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INTRODUCTION

Abstract:

The Student Record Management System is a PHP-based project that aims to facilitate the management of student records for educational institutions. This System is designed to have two different sides: the user side and admin side. The user side allows students to access their attendance and results, while the admin side is responsible for managing the courses, students, departments, attendance, subjects, and results.

Overall, the Student Record Management System is a reliable and efficient tool for managing student records. It streamlines the management process, reduces administrative workload, and ensures accuracy and security of student records. This system is suitable for use by educational institutions of various sizes and levels, from primary schools to universities.

Introduction & Approach:

Managing student records is a crucial aspect of educational institutions. It involves the collection, storage, and retrieval of data related to students' academic performance, attendance, and personal information. The traditional method of managing student records involves manual processes, which are often time-consuming, prone to errors, and challenging to track. Moreover, the increasing number of students and the complexity of educational systems have made it difficult to manage student records manually.

To address these challenges, the Student Record Management System has been developed. This system is a web-based application that provides a comprehensive solution for managing student records. It is designed to automate the collection, storage, and retrieval of student data, making the process faster, more accurate, and more efficient. Moreover, it is easy to use and provides a user-friendly interface for both administrators and students.

The admin side has several functionalities, including adding and updating courses, adding and updating students, adding and updating departments, adding and updating attendance records, adding subjects, and managing results. These features enable the admin to have complete control over the management of student records. Moreover, the system provides security measures, such as user authentication and access control, to ensure that only authorized personnel can access and manage the records.

On the other hand, the user side allows students to view their results and attendance records. This feature enables students to keep track of their academic performance and attendance throughout their course of study. The system provides an intuitive user interface that makes it easy for students to navigate and access their records.

Overall, the Student Record Management System is a reliable and efficient tool for managing student records. It simplifies the management process, reduces administrative workload, and ensures accuracy and security of student records. This system is suitable for use by educational institutions of various sizes and levels, from primary schools to universities. In the following sections of this report, we will discuss the features, functionality, and technical aspects of the Student Record Management System in more detail.

ANALYSIS

Problem:

To maintains the student details, history of student's exam scores, attendance, scholastic achievements, course, and performance in extracurricular activities on paper is hard. The administration departments of university are often seen juggling papers and keeping track of documents trapped in files. This way consumes more time and energy.

Scope:

The purpose of this document is to provide a detailed description of the Student Record Management System. Admin can add students, manage students, add subjects, update subjects, add department, manage department, add course, manage course, add results, manage results, add attendance, manage attendance. Student can see their results and their attendance.

System Requirement Specification:

Role Specifications:

1.) **Admin:** Add, update and delete students also add and update departments, courses, subjects, results and attendance. Also can change its own login password.
2.) **Student:** View results and attendance.

Software Requirement Specification:

❖ System Functional Requirements:

- ✦ **R1. Manage Student Information:**
  - **R1.1: Add Student**

    Description: After admin fill the student details and click on add button then student will be added to database.
    Input: Student Data
    Output: Student Added

  - **R1.2: Update Student**

    Description: After admin change the required details and click on Update button then student will be update to database.
    Input: Student Data
    Output: Student Updated

  - **R1.3: Delete Student**

    Description: After admin click on delete button the student will be delete from the database.
    Input: Student Id
    Output: Student Deleted

- ✦ **R2. Manage Student Result:**
  - **R2.1: Add Student Result**

    Description: After admin fill the student result details and click on add button then student result will be added to database.
    Input: Student Result
    Output: Student Result Added

- **R2.2: Update Student Result**

  Description: After admin change the required details of students result and click on Update button then student result will be updated to database.
  Input: Student Result Data
  Output: Student Result Updated

✦ **R3. Manage Student Attendance:**

- **R3.1: Add Student Attendance**

  Description: After admin fill the student attendance details and click on add button then student attendance will be added to database.
  Input: Student Attendance
  Output: Student Attendance Added

- **R3.2: Update Student Attendance**

  Description: After admin change the required details and click on Update button then student attendance will be updated to database.
  Input: Student Attendance Data
  Output: Student Attendance Updated

✦ **R4. Manage Departments:**

- **R4.1: Add Department**

  Description: After admin fill the department details and click on add button then department and semester will be added to database.
  Input: Department Data
  Output: Department Added

- **R4.2: Update Department**

  Description: After admin change the required details and click on Update button then department and semester will be updated to database.
  Input: Department Data
  Output: Department Updated

- **R5. Manage Subjects:**
  - **R5.1: Add Subject**

    Description: After admin fill the subject details and click on add button then subject will be added to database.
    Input: Subject Data
    Output: Subject Added

  - **R5.2: Update Subject**

    Description: After admin change the required details and click on Update button then Subject will be updated to database.
    Input: Subject Data
    Output: Subject Updated

- **R6. Manage Subjects Combination (Course):**
  - **R6.1: Add Subjects Combination**

    Description: After admin fill the subject combination details and click on add button then subject combination will be added to database.
    Input: Student Data
    Output: Student Added

  - **R6.2: Update Subjects Combination**

    Description: After admin change the required details then subject combination will be updated to database.
    Input: Subject Combination Data
    Output: Subject Combination Updated

- **R7. Student View:**
  - **R7.1: View Result**

    Description: After student enter the Roll Id and select department then click on search button then the result will be shown.
    Input: Student Roll Id and Department
    Output: Result

- **R7.2: View Attendance**

  Description: After student enter the Roll Id and select department then click on search button then the attendance report will be shown.
  Input: Student Roll Id and Department
  Output: Attendance Report

✦ **R8. Admin Password:**

- **R8.1: Change Login Password**

  Description: Admin can change its own login password
  Input: Current password and new password
  Output: Password gets changed

❖ Non-Functional Requirements:

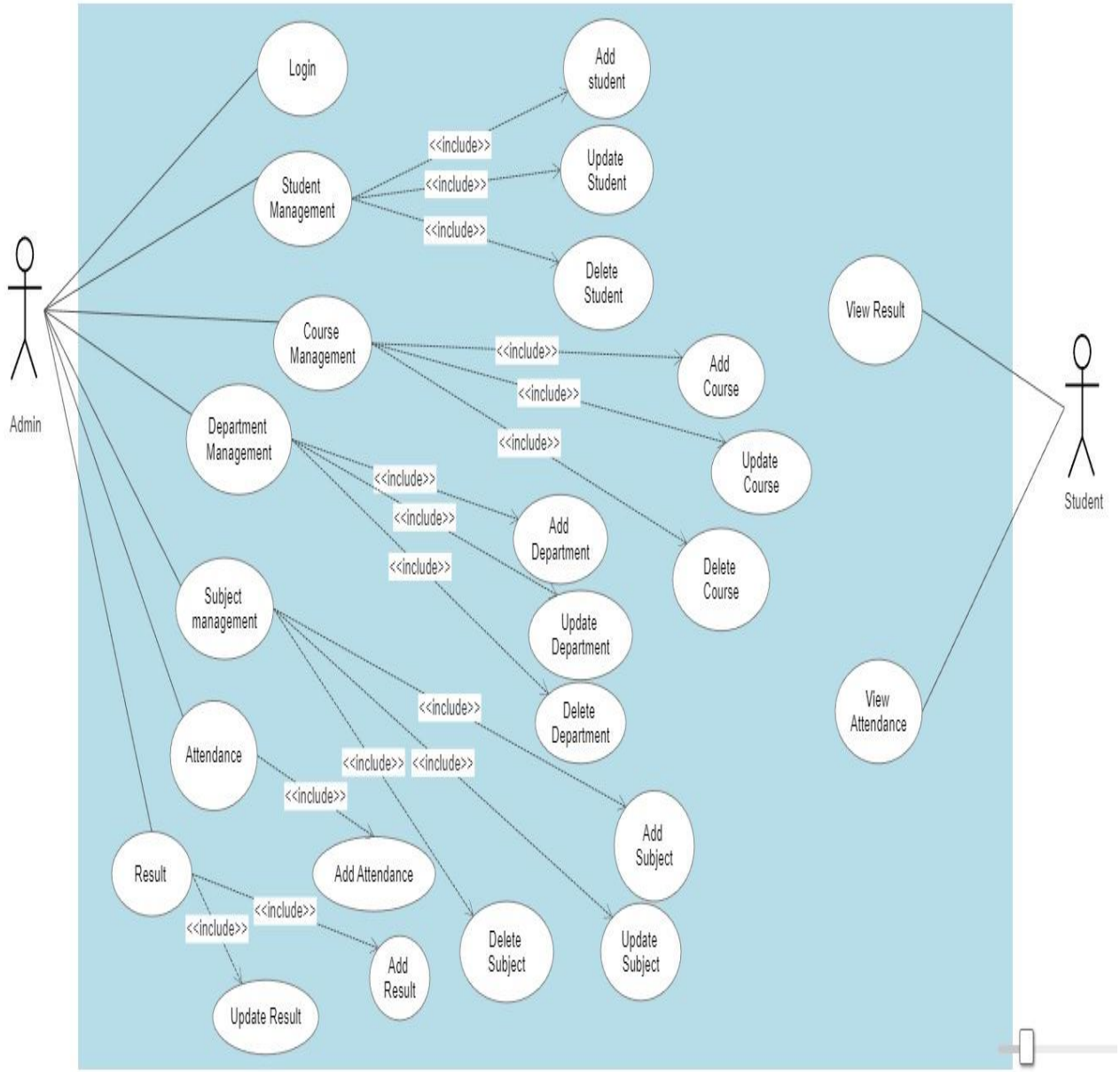
R1. Performance:
The system should be able to handle multiple users simultaneously. The system should have a response time of less than 2 seconds for any user request.

R2. Security:
The system should have secure login and authentication mechanisms. The system should provide access control to ensure that only authorized personnel can access and modify student records.

R3. Reliability:
The system should be able to recover data in case of any system failure. The system should provide a backup and restore mechanism to protect against data loss.

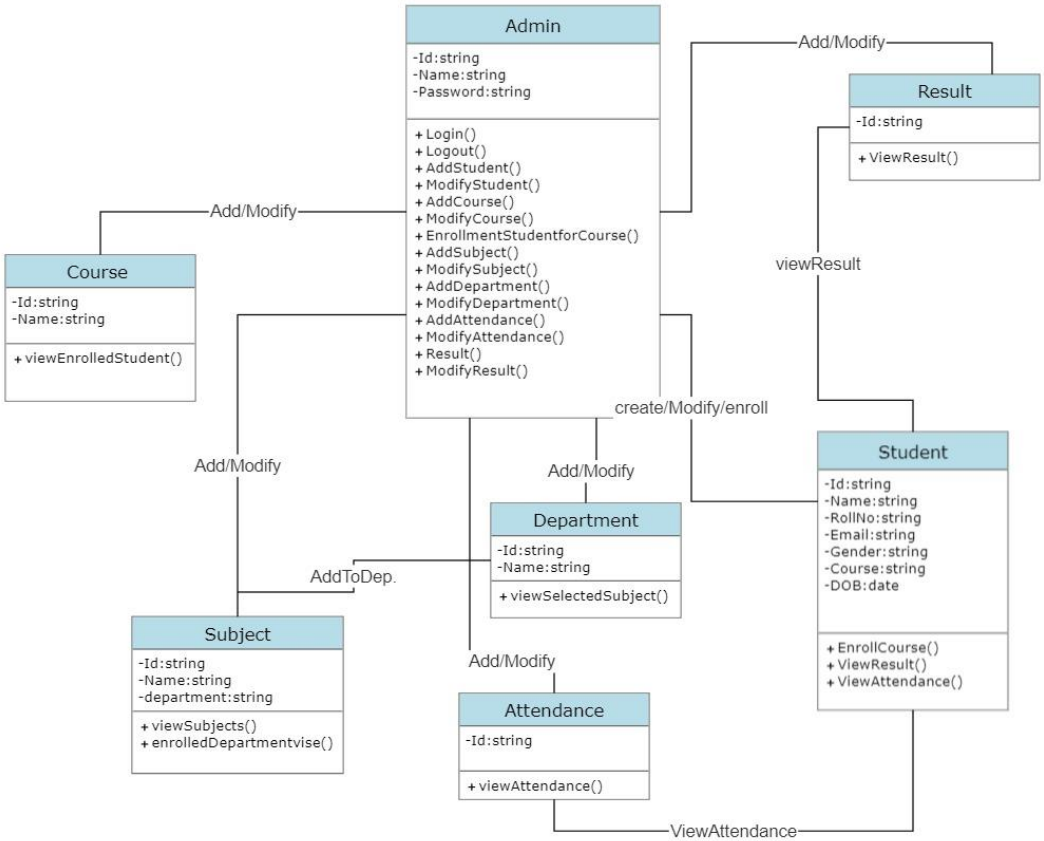
R4. Usability:
The system should have a user-friendly interface for both administrators and students. The system should provide clear and concise instructions for all user actions.

Use-Case Diagram:



DESIGN

Class Diagram:



Project Modules:

Our application deals with six modules.

1. Student Module
2. Admin Module
3. Subject Module
4. Subject Combination Module
5. Result Module
6. Attendance Module

Student Module:

- In this student module admin will register the details of the student.
- A student can view his result and attendance.

Admin Module:

- Administrator has the power to add new student and can edit, view and delete a student.
- The administrator can add, edit and delete result for the student.
- The administrator can add, edit and delete attendance for the student.

Subject Module:

- In this module Administrator register all subjects and also provide subject code to each and every subject.
- Administrator edit and delete the subjects.

Subject Combination Module:

- Assign subjects to every branch in semester wise.
- Administrator can edit and delete the subject combination.

Result Module:

- Administrator enters result of the student in semester wise.
- Administrator can also edit and delete the result of the student.

Attendance Module:

- Administrator enters attendance of the student in semester wise.
- Administrator can also edit and delete the attendance of the student.

Database Tables Structures:

tblstudents:

Field Name	Data Type
StudentId	Int(11)
StudentName	Varchar(100)
RollId	Varchar(100)
StudentEmail	Varchar(100)
Gender	Varchar(10)
DOB	Varchar(100)
DepartmentId	Int(11)
RegDate	timestamp
UpdationDate	timestamp
status	Int(1)

tbldepartments:

Field Name	Data Type
id	Int(11)
DepartmentName	Varchar(200)
Semester	Int(10)
CreationDate	Timestamp
UpdationDate	Timestamp

tblsubjects:

Field Name	Data Type
Id	Int(11)
SubjectName	Varchar(100)
SubjectCode	varchar(100)
Creationdate	Timestamp
UpdationDate	timestamp

tblsubjectscombination:

Field Name	Data Type
Id	Int(11)
DepartmentId	Int(11)
SubjectId	Int(11)
Status	Int(1)
CreationDate	Timestamp
UpdationDate	timestamp

tblresult:

Field Name	Data Type
id	Int(11)
StudentId	Int(11)
DepartmentId	Int(11)
SubjectId	Int(11)
marks	Int(11)
PostingDate	Timestamp
UpdationDate	timestamp

tblattendance:

Field Name	Data Type
id	Int(11)
StudentId	Int(11)
DepartmentId	Int(11)
SubjectId	Int(11)
Attendance	Int(11)
PostingDate	Timestamp
UpdationDate	timestamp

admin:

Field Name	Data Type
id	Int(11)
UserName	Varchar(100)
Password	Varchar(100)
updationDate	Timestamp

IMPLEMENTATION

Tools and Technology:

- **Technology:**
  - PHP
  - Boot Strap
  - CSS
  - MySQL
  - Java script

- **Tools:**
  - Sublime Text Editor
  - XAMPP
  - MySQL Server

Codes for major modules:

❖ Admin Module

➢ Adding Student

```
<form class="form-horizontal" method="post">

<div class="form-group">
<label for="default" class="col-sm-2 control-label">Full Name</label>
<div class="col-sm-10">
<input type="text" name="fullanme" class="form-control"
id="fullanme" required="required" autocomplete="off">
</div>
</div>

<div class="form-group">
<label for="default" class="col-sm-2 control-label">Roll Id</label>
<div class="col-sm-10">
<input type="text" name="rollid" class="form-control" id="rollid"
maxlength="5" required="required" autocomplete="off">
</div>
</div>

<div class="form-group">
<label for="default" class="col-sm-2 control-label">Email id</label>
<div class="col-sm-10">
<input type="email" name="emailid" class="form-control" id="email"
required="required" autocomplete="off">
</div>
</div>


<div class="form-group">
<label for="default" class="col-sm-2 control-label">Gender</label>
<div class="col-sm-10">
<input type="radio" name="gender" value="Male" required="required"
checked="">Male <input type="radio" name="gender" value="Female"
required="required">Female <input type="radio" name="gender"
value="Other" required="required">Other
</div>
</div>

<div class="form-group">
<label for="date" class="col-sm-2 control-label">DOB</label>
<div class="col-sm-10">
<input type="date" name="dob" class="form-control" id="date">
```

```
</div>
</div>

<div class="form-group">
<label for="default" class="col-sm-2 control-label">Department</label>
<div class="col-sm-10">
<select name="department" class="form-control" id="default"
required="required">
<option value="">Select Department</option>
<?php $sql = "SELECT * from tbldepartments";
$query = $dbh->prepare($sql);
$query->execute();
$results=$query->fetchAll(PDO::FETCH_OBJ);
if($query->rowCount() > 0)
{
foreach($results as $result)
{   ?>
<option value="<?php echo htmlentities($result->id); ?>">
<?php echo htmlentities($result->DepartmentName); ?> 
Semester-<?php echo htmlentities($result->Semester); ?>
</option>
<?php }} ?>
</select>
</div>
</div>

<div class="form-group">
<div class="col-sm-offset-2 col-sm-10">
<button type="submit" name="submit"
class="btn btn-primary">Add</button>
</div>
</div>
</form>
```

- **Edit Student**

```
<form class="form-horizontal" method="post">
<?php

$sql = "SELECT
tblstudents.StudentName,tblstudents.RollId,tblstudents.RegDate,tblstudents.Stu
dentId,tblstudents.Status,tblstudents.StudentEmail,tblstudents.Gender,tblstude
nts.DOB,tbldepartments.DepartmentName,tbldepartments.Semester from tblstudents
join tbldepartments on tbldepartments.id=tblstudents.StudentId where
tblstudents.StudentId=:stid";
$query = $dbh->prepare($sql);
$query->bindParam(':stid',$stid,PDO::PARAM_STR);
$query->execute();
$results=$query->fetchAll(PDO::FETCH_OBJ);
```

```
$cnt=1;
if($query->rowCount() > 0)
{
foreach($results as $result)
{  ?>


<div class="form-group">
<label for="default" class="col-sm-2 control-label">Full Name</label>
<div class="col-sm-10">
<input type="text" name="fullanme" class="form-control"
id="fullanme"
value="<?php echo htmlentities($result->StudentName)?>"
required="required" autocomplete="off">
</div>
</div>

<div class="form-group">
<label for="default" class="col-sm-2 control-label">Rool Id</label>
<div class="col-sm-10">
<input type="text" name="rollid" class="form-control" id="rollid"
value="<?php echo htmlentities($result->RollId)?>" maxlength="5"
required="required" autocomplete="off">
</div>
</div>

<div class="form-group">
<label for="default" class="col-sm-2 control-label">Email id</label>
<div class="col-sm-10">
<input type="email" name="emailid" class="form-control" id="email"
value="<?php echo htmlentities($result->StudentEmail)?>"
required="required" autocomplete="off">
</div>
</div>



<div class="form-group">
<label for="default" class="col-sm-2 control-label">Gender</label>
<div class="col-sm-10">
<?php  $gndr=$result->Gender;
if($gndr=="Male")
{
?>
<input type="radio" name="gender" value="Male" required="required"
checked>Male <input type="radio" name="gender" value="Female"
required="required">Female <input type="radio" name="gender"
value="Other" required="required">Other
<?php }?>
```

```
<?php
if($gndr=="Female")
{
?>
<input type="radio" name="gender" value="Male"
required="required">Male <input type="radio" name="gender"
value="Female" required="required" checked>Female <input
type="radio" name="gender" value="Other"
required="required">Other
<?php }?>
<?php
if($gndr=="Other")
{
?>
<input type="radio" name="gender" value="Male"
required="required">Male <input type="radio" name="gender"
value="Female" required="required">Female <input type="radio"
name="gender" value="Other" required="required" checked>Other
<?php }?>


</div>
</div>



<div class="form-group">
<label for="default" class="col-sm-2 control-label">Department</label>
<div class="col-sm-10">
<input type="text" name="departmentname" class="form-control"
id="departmentname"
value="<?php echo htmlentities($result->DepartmentName)?>(<?php echo
htmlentities($result->Semester)?>)"
readonly>
</div>
</div>
<div class="form-group">
<label for="date" class="col-sm-2 control-label">DOB</label>
<div class="col-sm-10">
<input type="date" name="dob" class="form-control"
value="<?php echo htmlentities($result->DOB)?>" id="date">
</div>
</div>
<div class="form-group">
<label for="default" class="col-sm-2 control-label">Reg Date: </label>
<div class="col-sm-10">
<?php echo htmlentities($result->RegDate)?>
</div>
</div>
```

```
<div class="form-group">
<label for="default" class="col-sm-2 control-label">Status</label>
<div class="col-sm-10">
<?php  $stats=$result->Status;
if($stats=="1")
{
?>
<input type="radio" name="status" value="1" required="required"
checked>Active <input type="radio" name="status" value="0"
required="required">Block
<?php }?>
<?php
if($stats=="0")
{
?>
<input type="radio" name="status" value="1"
required="required">Active <input type="radio" name="status"
value="0" required="required" checked>Block
<?php }?>



</div>
</div>

<?php }} ?>


<div class="form-group">
<div class="col-sm-offset-2 col-sm-10">
<button type="submit" name="submit"
class="btn btn-warning">Update</button>
</div>
</div>
</form>
```

- **Adding Department**

```
<form method="post">
<div class="form-group has-success">
<label for="success" class="control-label">Department Name</label>
<div class="">
<input type="text" name="departmentname" class="form-control"
required="required" id="success">
<span class="help-block">Eg- Computer (CE), Information Techno.
(IT),Chemical (ChE) etc</span>
</div>
</div>
```

```
<div class="form-group has-success">
<label for="success" class="control-label">Semester</label>
<div class="">
<input type="number" name="semester" required="required"
class="form-control" id="success">
<span class="help-block">Eg- 1,2,4,5 etc</span>
</div>
</div>
<div class="form-group has-success">

<div class="">
<button type="submit" name="submit"
class="btn btn-success btn-labeled">Submit<span
class="btn-label btn-label-right"><i
class="fa fa-check"></i></span></button>
</div>

</div>
</form>
```

- **Edit Department**

```
<form method="post">
<?php
$did=intval($_GET['departmentid']);
$sql = "SELECT * from tbldepartments where id=:did";
$query = $dbh->prepare($sql);
$query->bindParam(':did',$did,PDO::PARAM_STR);
$query->execute();
$results=$query->fetchAll(PDO::FETCH_OBJ);
$cnt=1;
if($query->rowCount() > 0)
{
foreach($results as $result)
{   ?>

<div class="form-group has-success">
<label for="success" class="control-label">Department Name</label>
<div class="">
<input type="text" name="departmentname"
value="<?php echo htmlentities($result->DepartmentName);?>"
required="required" class="form-control" id="success">
<span class="help-block">Eg- Computer (CE), Information Techno.
(IT),Chemical (ChE) etc</span>
</div>
</div>
<div class="form-group has-success">
<label for="success" class="control-label">Semester</label>
```

```
<div class="">
<input type="number" name="semester"
value="<?php echo htmlentities($result->Semester);?>"
required="required" class="form-control" id="success">
<span class="help-block">Eg- 1,2,4,5 etc</span>
</div>
</div>

<?php }} ?>
<div class="form-group has-success">

<div class="">
<button type="submit" name="update"
class="btn btn-success btn-labeled">Update<span
class="btn-label btn-label-right"><i
class="fa fa-check"></i></span></button>
</div>

</div>



</form>
```

❖ Subject Module

➢ Adding Subject

```
<form class="form-horizontal" method="post">
<div class="form-group">
<label for="default" class="col-sm-2 control-label">Department</label>
<div class="col-sm-10">
<select name="class" class="form-control" id="default"
required="required">
<option value="">Select Class</option>
<?php $sql = "SELECT * from tbldepartments";
$query = $dbh->prepare($sql);
$query->execute();
$results=$query->fetchAll(PDO::FETCH_OBJ);
if($query->rowCount() > 0)
{
foreach($results as $result)
{   ?>
<option value="<?php echo htmlentities($result->id); ?>">
<?php echo htmlentities($result->DepartmentName); ?> 
Semester-<?php echo htmlentities($result->Semester); ?>
</option>
<?php }} ?>
```

```
</select>
</div>
</div>
<div class="form-group">
<label for="default" class="col-sm-2 control-label">Subject</label>
<div class="col-sm-10">
<select name="subject" class="form-control" id="default"
required="required">
<option value="">Select Subject</option>
<?php $sql = "SELECT * from tblsubjects";
$query = $dbh->prepare($sql);
$query->execute();
$results=$query->fetchAll(PDO::FETCH_OBJ);
if($query->rowCount() > 0)
{
foreach($results as $result)
{   ?>
<option value="<?php echo htmlentities($result->id); ?>">
<?php echo htmlentities($result->SubjectName); ?></option>
<?php }} ?>
</select>
</div>
</div>



<div class="form-group">
<div class="col-sm-offset-2 col-sm-10">
<button type="submit" name="submit"
class="btn btn-primary">Add</button>
</div>
</div>
</form>
```

- **Edit Subject**

```
<form class="form-horizontal" method="post">

<?php
$sid=intval($_GET['subjectid']);
$sql = "SELECT * from tblsubjects where id=:sid";
$query = $dbh->prepare($sql);
$query->bindParam(':sid',$sid,PDO::PARAM_STR);
$query->execute();
$results=$query->fetchAll(PDO::FETCH_OBJ);
$cnt=1;
if($query->rowCount() > 0)
{
```

```
foreach($results as $result)
{   ?>
<div class="form-group">
<label for="default" class="col-sm-2 control-label">Subject Name</label>
<div class="col-sm-10">
<input type="text" name="subjectname" value="<?php echo htmlentities($result->SubjectName);?>" class="form-control" id="default" placeholder="Subject Name" required="required">
</div>
</div>
<div class="form-group">
<label for="default" class="col-sm-2 control-label">Subject Code</label>
<div class="col-sm-10">
<input type="text" name="subjectcode" class="form-control" value="<?php echo htmlentities($result->SubjectCode);?>"  id="default" placeholder="Subject Code" required="required">
</div>
</div>
<?php }} ?>


<div class="form-group">
<div class="col-sm-offset-2 col-sm-10">
<button type="submit" name="Update" class="btn btn-primary">Update</button>
</div>
</div>
</form>
```

❖ Subject Combination Module

➢ Adding Subject Combination

```
<form class="form-horizontal" method="post">
<div class="form-group">
<label for="default" class="col-sm-2 control-label">Department</label>
<div class="col-sm-10">
<select name="class" class="form-control" id="default" required="required">
<option value="">Select Class</option>
<?php $sql = "SELECT * from tbldepartments";
$query = $dbh->prepare($sql);
$query->execute();
$results=$query->fetchAll(PDO::FETCH_OBJ);
if($query->rowCount() > 0)
{
foreach($results as $result)
{   ?>
<option value="<?php echo htmlentities($result->id); ?>">
```

```
<?php echo htmlentities($result->DepartmentName); ?> 
Semester-<?php echo htmlentities($result->Semester); ?>
</option>
<?php }} ?>
</select>
</div>
</div>
<div class="form-group">
<label for="default" class="col-sm-2 control-label">Subject</label>
<div class="col-sm-10">
<select name="subject" class="form-control" id="default"
required="required">
<option value="">Select Subject</option>
<?php $sql = "SELECT * from tblsubjects";
$query = $dbh->prepare($sql);
$query->execute();
$results=$query->fetchAll(PDO::FETCH_OBJ);
if($query->rowCount() > 0)
{
foreach($results as $result)
{   ?>
<option value="<?php echo htmlentities($result->id); ?>">
<?php echo htmlentities($result->SubjectName); ?></option>
<?php }} ?>
</select>
</div>
</div>



<div class="form-group">
<div class="col-sm-offset-2 col-sm-10">
<button type="submit" name="submit"
class="btn btn-primary">Add</button>
</div>
</div>
</form>
```

- **Edit Subject Combination**

```
<table id="example" class="display table table-striped table-bordered"
cellspacing="0" width="100%">
<thead>
<tr>
<th>#</th>
<th>Department and Semester</th>
<th>Subject </th>
<th>Status</th>
```

```
<th>Action</th>
</tr>
</thead>
<tfoot>
<tr>
<th>#</th>
<th>Department and Semester</th>
<th>Subject </th>
<th>Status</th>
<th>Action</th>
</tr>
</tfoot>
<tbody>
<?php $sql = "SELECT
tbldepartments.DepartmentName,tbldepartments.Semester,tblsubjects.SubjectName,
tblsubjectcombination.id as scid,tblsubjectcombination.status from
tblsubjectcombination join tbldepartments on
tbldepartments.id=tblsubjectcombination.DepartmentId  join tblsubjects on
tblsubjects.id=tblsubjectcombination.SubjectId";
$query = $dbh->prepare($sql);
$query->execute();
$results=$query->fetchAll(PDO::FETCH_OBJ);
$cnt=1;
if($query->rowCount() > 0)
{
foreach($results as $result)
{   ?>
<tr>
<td><?php echo htmlentities($cnt);?></td>
<td><?php echo htmlentities($result->DepartmentName);?>  
Semester-<?php echo htmlentities($result->Semester);?></td>
<td><?php echo htmlentities($result->SubjectName);?></td>
<td><?php $stts=$result->status;
if($stts=='0')
{
echo htmlentities('Inactive');
}
else
{
echo htmlentities('Active');
}
?></td>

<td>
<?php if($stts=='0')
{ ?>
<a href="manage-subjectcombination.php?acid=<?php echo htmlentities($result-
>scid);?>"
```

```
onclick="confirm('do you really want to ativate this subject');"><i
class="fa fa-check" title="Acticvate Record"></i>
</a><?php } else {?>

<a href="manage-subjectcombination.php?did=<?php echo htmlentities($result-
>scid);?>"
onclick="confirm('do you really want to deativate this subject');"><i
class="fa fa-times" title="Deactivate Record"></i>
</a>
<?php }?>
</td>
</tr>
<?php $cnt=$cnt+1;}} ?>


</tbody>
</table>
```

❖ Result Module

➢ Adding Result

```
<form class="form-horizontal" method="post">

<div class="form-group">
<label for="default" class="col-sm-2 control-label">Department</label>
<div class="col-sm-10">
<select name="department" class="form-control clid"
id="departmentid" onChange="getStudent(this.value);"
required="required">
<option value="">Select Department</option>
<?php $sql = "SELECT * from tbldepartments";
$query = $dbh->prepare($sql);
$query->execute();
$results=$query->fetchAll(PDO::FETCH_OBJ);
if($query->rowCount() > 0)
{
foreach($results as $result)
{   ?>
<option value="<?php echo htmlentities($result->id); ?>">
<?php echo htmlentities($result->DepartmentName); ?> 
Semester-<?php echo htmlentities($result->Semester); ?>
</option>
<?php }} ?>
</select>
</div>
</div>
<div class="form-group">
```

```
<label for="date" class="col-sm-2 control-label ">Student Name</label>
<div class="col-sm-10">
<select name="studentid" class="form-control stid" id="studentid"
required="required" onChange="getresult(this.value);">
</select>
</div>
</div>

<div class="form-group">

<div class="col-sm-10">
<div id="reslt">
</div>
</div>
</div>

<div class="form-group">
<label for="date" class="col-sm-2 control-label">Subjects</label>
<div class="col-sm-1">
<div id="subject">
</div>
</div>
</div>



<div class="form-group">
<div class="col-sm-offset-2 col-sm-10">
<button type="submit" name="submit" id="submit"
class="btn btn-primary">Declare Result</button>
</div>
</div>
</form>
```

❖ Attendance Module

➢ Adding Attendance

```
<form class="form-horizontal" method="post">

<div class="form-group">
<label for="default" class="col-sm-2 control-label">Department</label>
<div class="col-sm-10">
<select name="department" class="form-control clid"
id="departmentid" onChange="getStudent(this.value);"
required="required">
<option value="">Select Department</option>
<?php $sql = "SELECT * from tbldepartments";
```

```
$query = $dbh->prepare($sql);
$query->execute();
$results=$query->fetchAll(PDO::FETCH_OBJ);
if($query->rowCount() > 0)
{
foreach($results as $result)
{   ?>
<option value="<?php echo htmlentities($result->id); ?>">
<?php echo htmlentities($result->DepartmentName); ?> 
Semester-<?php echo htmlentities($result->Semester); ?>
</option>
<?php }} ?>
</select>
</div>
</div>
<div class="form-group">
<label for="date" class="col-sm-2 control-label ">Student Name</label>
<div class="col-sm-10">
<select name="studentid" class="form-control stid" id="studentid"
required="required" onChange="getattendance(this.value);">
</select>
</div>
</div>

<div class="form-group">

<div class="col-sm-10">
<div id="reslt">
</div>
</div>
</div>

<div class="form-group">
<label for="date" class="col-sm-2 control-label">Subjects</label>
<div class="col-sm-10">
<div id="subject">
</div>
</div>
</div>



<div class="form-group">
<div class="col-sm-offset-2 col-sm-10">
<button type="submit" name="submit" id="submit"
class="btn btn-primary">Declare Attendance</button>
</div>
</div>
</form>
```

❖ Student Module

➢ View Result

```
<table class="table table-hover table-bordered">
<thead>
<tr>
<th>#</th>
<th>Subject</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<?php
// Code for result

$query ="select
t.StudentName,t.RollId,t.DepartmentId,t.marks,SubjectId,tblsubjects.SubjectNam
e from (select sts.StudentName,sts.RollId,sts.DepartmentId,tr.marks,SubjectId
from tblstudents as sts join  tblresult as tr on tr.StudentId=sts.StudentId)
as t join tblsubjects on tblsubjects.id=t.SubjectId where (t.RollId=:rollid
and t.DepartmentId=:departmentid)";
$query= $dbh -> prepare($query);
$query->bindParam(':rollid',$rollid,PDO::PARAM_STR);
$query->bindParam(':departmentid',$departmentid,PDO::PARAM_STR);
$query-> execute();
$results = $query -> fetchAll(PDO::FETCH_OBJ);
$cnt=1;
if($countrow=$query->rowCount()>0)
{
foreach($results as $result){
?>

<tr>
<th scope="row"><?php echo htmlentities($cnt);?></th>
<td><?php echo htmlentities($result->SubjectName);?></td>
<td><?php echo htmlentities($totalmarks=$result->marks);?>
</td>
</tr>
<?php
$totlcount+=$totalmarks;
$cnt++;}
?>
<tr>
<th scope="row" colspan="2">Total Marks</th>
<td><b><?php echo htmlentities($totlcount); ?></b> out of
<b><?php echo htmlentities($outof=($cnt-1)*100); ?></b>
```

```
</td>
</tr>
<tr>
<th scope="row" colspan="2">Percentage</th>
<td><b><?php echo  htmlentities($totlcount*(100)/$outof); ?>
%</b></td>
</tr>

<?php } else { ?>
<div class="alert alert-warning left-icon-alert" role="alert">
<strong>Notice!</strong> Your result not declare yet
<?php }
?>
</div>
<?php
} else
{?>

<div class="alert alert-danger left-icon-alert" role="alert">
<strong>Oh snap!</strong>
<?php
echo htmlentities("Invalid Roll Id");
}
?>
</div>
</tbody>

</table>
```

- **View Attendance**

```
<table class="table table-hover table-bordered">
<thead>
<tr>
<th>#</th>
<th>Subject</th>
<th>Attendance</th>
</tr>
</thead>
<tbody>

<?php
// Code for attendance

$query ="select
t.StudentName,t.RollId,t.DepartmentId,t.attendance,SubjectId,tblsubjects.Subje
ctName from (select
sts.StudentName,sts.RollId,sts.DepartmentId,tr.attendance,SubjectId from
tblstudents as sts join  tblattendance as tr on tr.StudentId=sts.StudentId) as
```

```
t join tblsubjects on tblsubjects.id=t.SubjectId where (t.RollId=:rollid and
t.DepartmentId=:departmentid)";
$query= $dbh -> prepare($query);
$query->bindParam(':rollid',$rollid,PDO::PARAM_STR);
$query->bindParam(':departmentid',$departmentid,PDO::PARAM_STR);
$query-> execute();
$results = $query -> fetchAll(PDO::FETCH_OBJ);
$cnt=1;
if($countrow=$query->rowCount()>0)
{

foreach($results as $result){

?>

<tr>
<th scope="row"><?php echo htmlentities($cnt);?></th>
<td><?php echo htmlentities($result->SubjectName);?></td>
<td><?php echo htmlentities($totalattendance=$result->attendance);?>
</td>
</tr>
<?php
$totlcount+=$totalattendance;
$cnt++;}
?>
<tr>
<th scope="row" colspan="2">Total attendance</th>
<td><b><?php echo htmlentities($totlcount); ?></b> out of
<b><?php echo htmlentities($outof=($cnt-1)*100); ?></b>
</td>
</tr>
<tr>
<th scope="row" colspan="2">Percentage</th>
<td><b><?php echo  htmlentities($totlcount*(100)/$outof); ?>
%</b></td>
</tr>

<?php } else { ?>
<div class="alert alert-warning left-icon-alert" role="alert">
<strong>Notice!</strong> Your attendance not declare yet
<?php }
?>
</div>
<?php
} else
{?>

<div class="alert alert-danger left-icon-alert" role="alert">
```

```
<strong>Oh snap!</strong>
<?php
echo htmlentities("Invalid Roll Id");
}
?>
</div>
</tbody>

</table>
```

TESTING

Testing Strategy:

For testing our application, a mixed approach integration testing and regression testing is used.

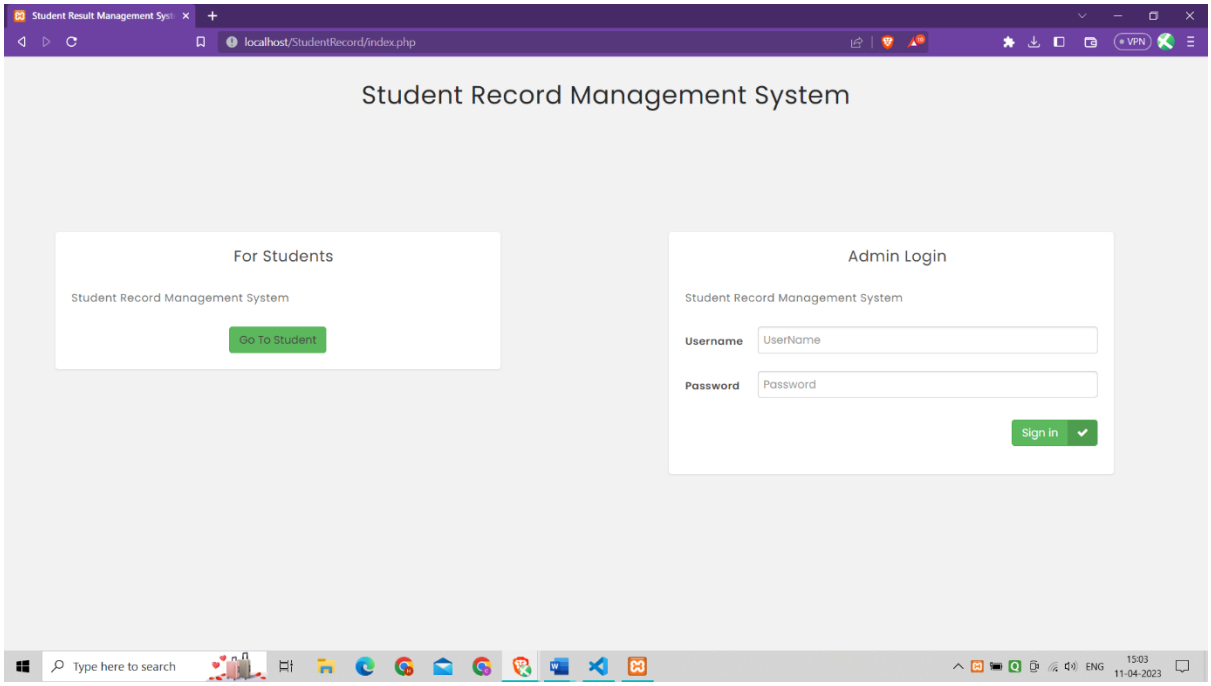
- **Integration testing:** Each main part of application is tested after each small function is tested first and then combine them and test that main part.
- **Regression testing:** After main part of application is created, added them in the whole system, and then test the whole system that make sure the whole system is work fine after adding some main part.
- **Manual Testing:** Manual testing is used to find and fix the bug in our application

NO	Test Scenario	Expected Output	Actual Output	Status
1	Entered Admin username, password	Admin Dashboard	Admin Dashboard	Success
2	Adding New Student	New student should be added to DB	New student added	Success
3	Update student details	Updated details should be in DB	Details changed in DB	Success
4	Delete a student	Student should be removed from DB	Student gets removed from DB	Success
5	Adding Subject	New Subject should be Added	Subject gets added	Success
6	Update Subject	Updated Subject details should be in DB	Details changed in DB	Success
7	Adding Department	New Department should be Added	Department gets added	Success
8	Update Department	Updated Department details should be in DB	Details changed in DB	Success
9	Adding Subject Combination	New Subject Combination should be Added	Subject Combination gets added	Success
10	Update Subject Combination	Updated Subject Combination details should be in DB	Details changed in DB	Success

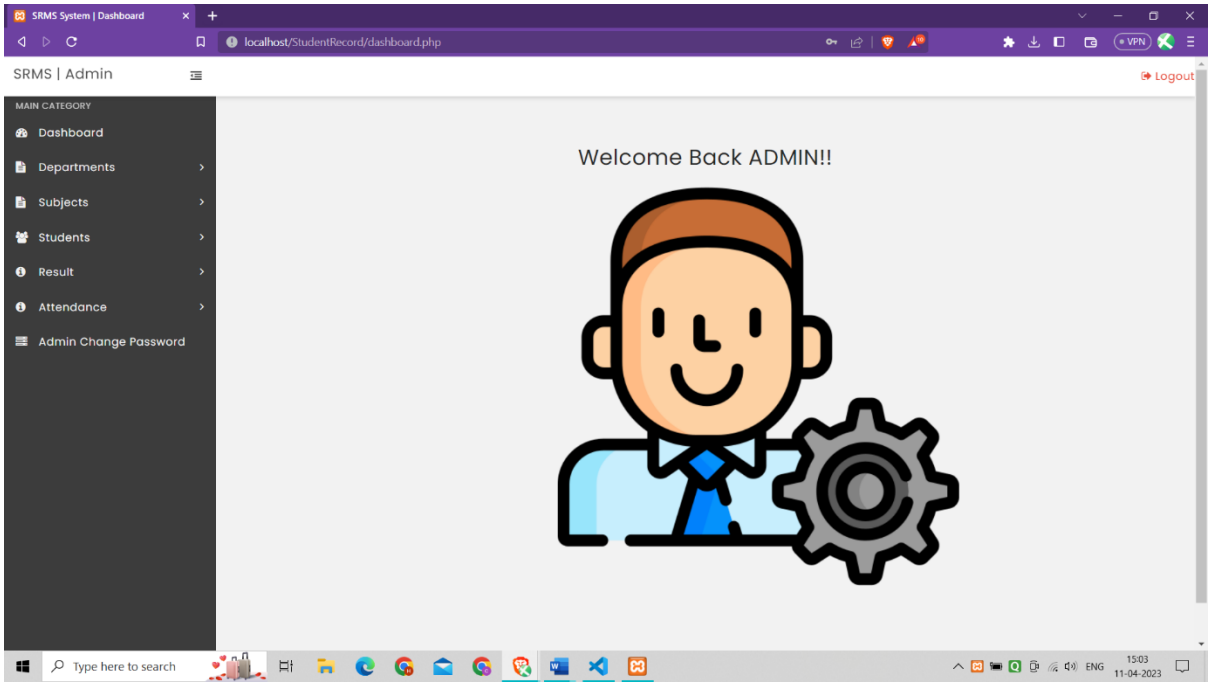
11	Add Result	Result should be added of a student	Result added	Success
12	Update Result	Updated result data should be in DB	Details changed in DB	Success
13	Redeclaring result of same student	Error for redeclaring result should be shown	Error message appeared	Success
14	Add Attendance	Attendance should be added of a student	Attendance added	Success
15	Update Attendance	Updated attendance data should be in DB	Details changed in DB	Success
16	Redeclaring attendance of same student	Error for redeclaring attendance should be shown	Error message appeared	Success
17	View result by student entering roll id and department	Result should be shown	Result showed	Success
18	View result by entering wrong details	Error message should be shown	Error message appeared	Success
19	View attendance by student entering roll id and department	Attendance report should be shown	Attendance report showed	Success
20	View attendance by entering wrong details	Error message should be shown	Error message appeared	Success

Screen Shots:

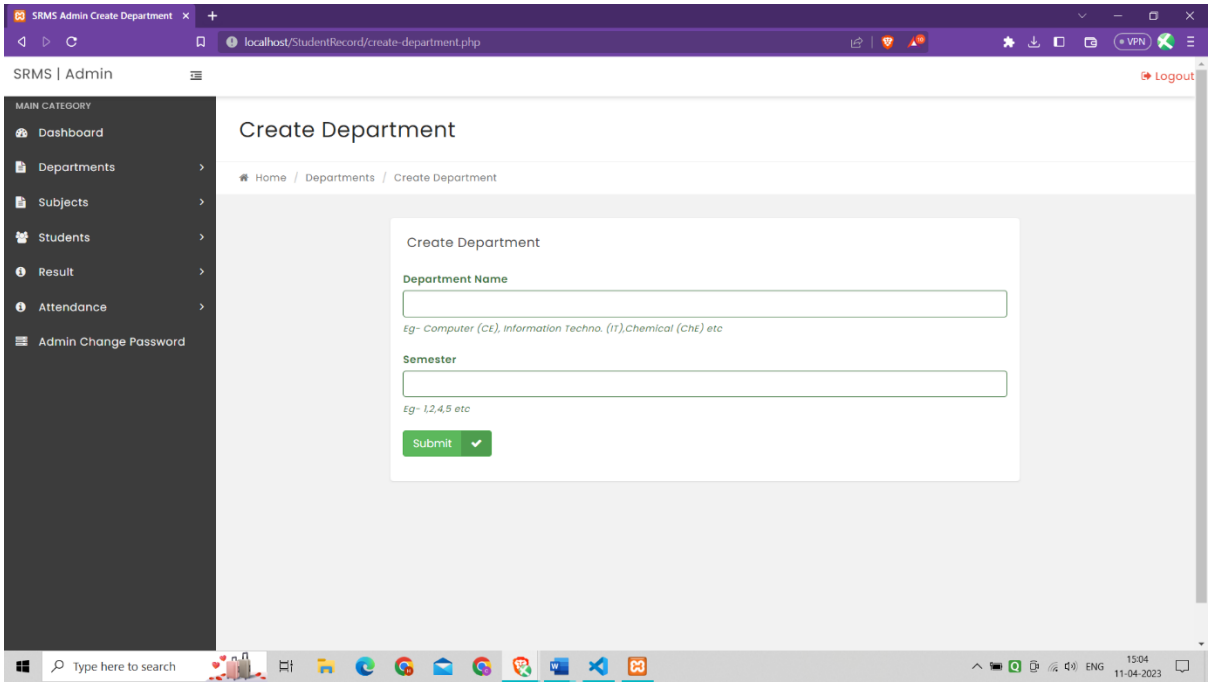
Index page:



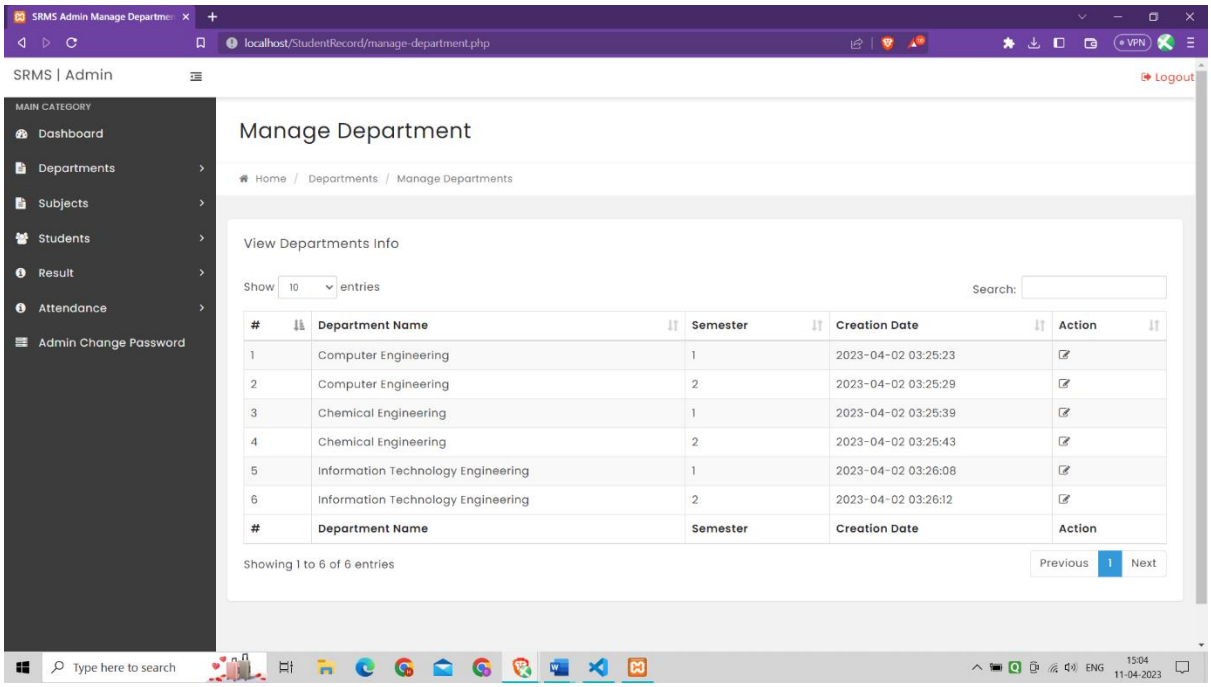
Admin Dashboard:



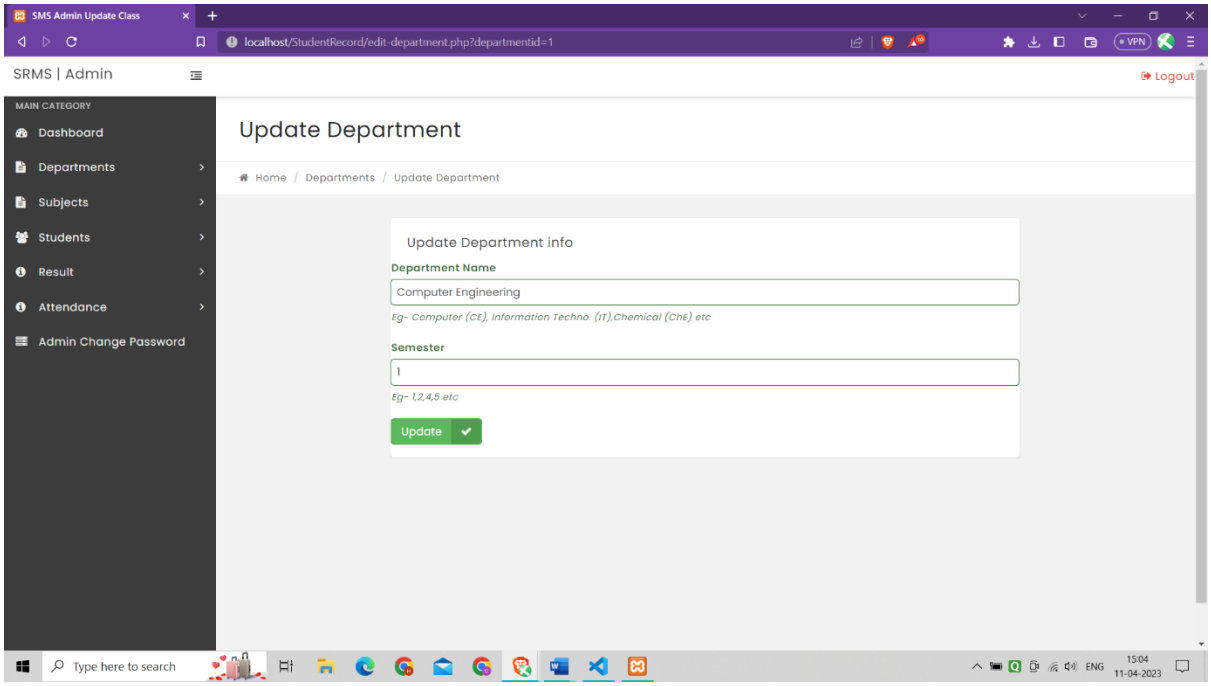
Add Department:



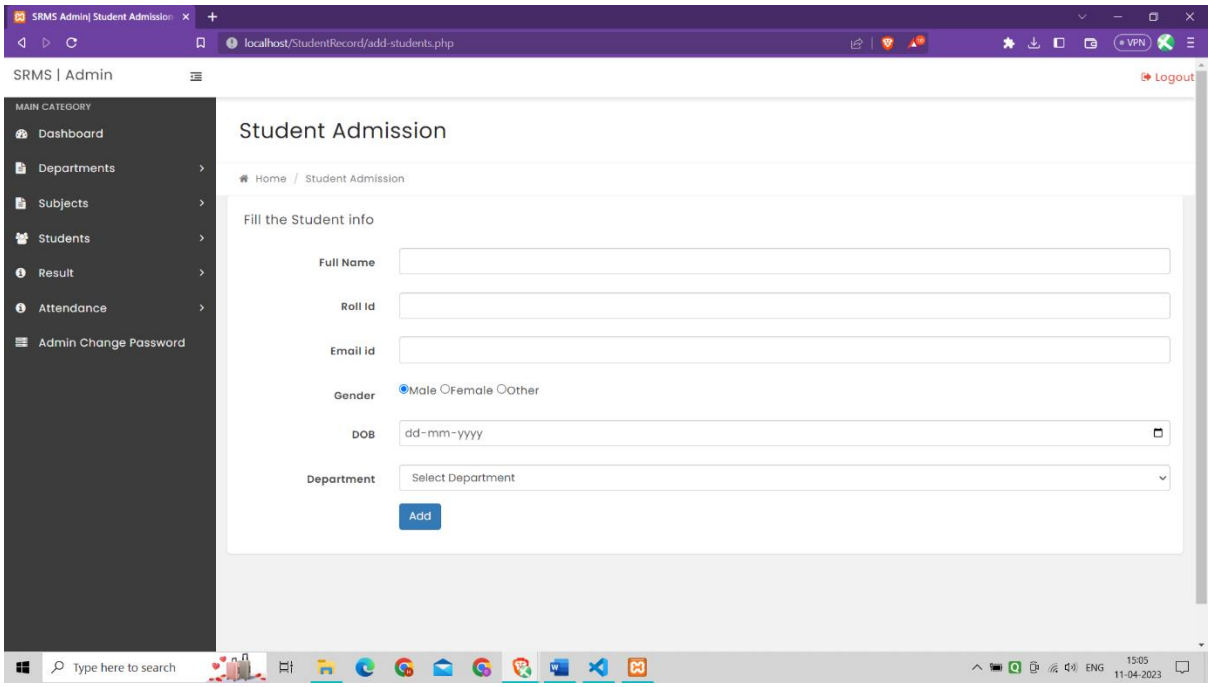
Manage Department:



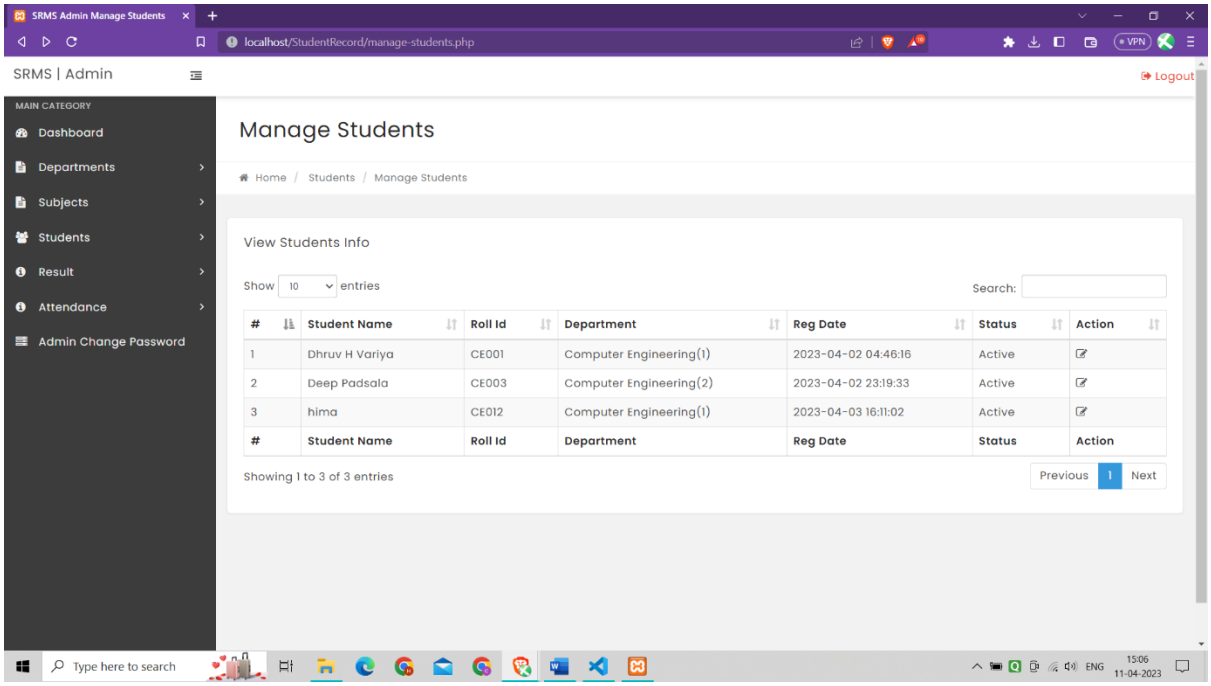
Update Department:



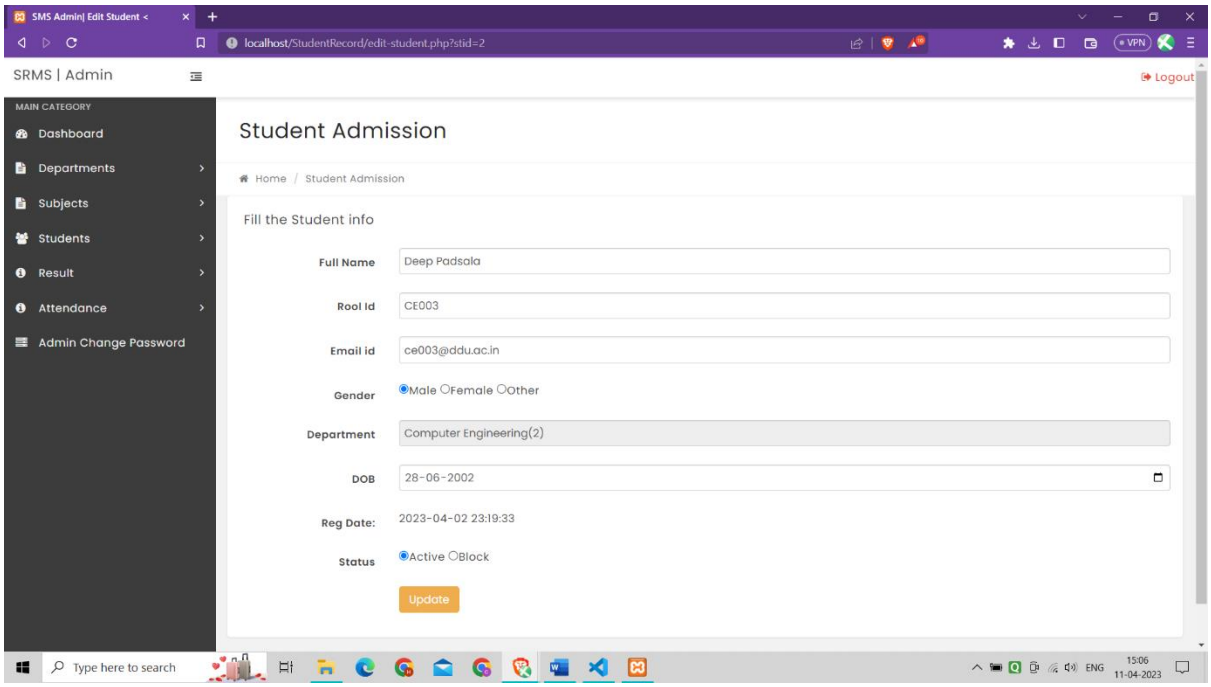
Add Student:



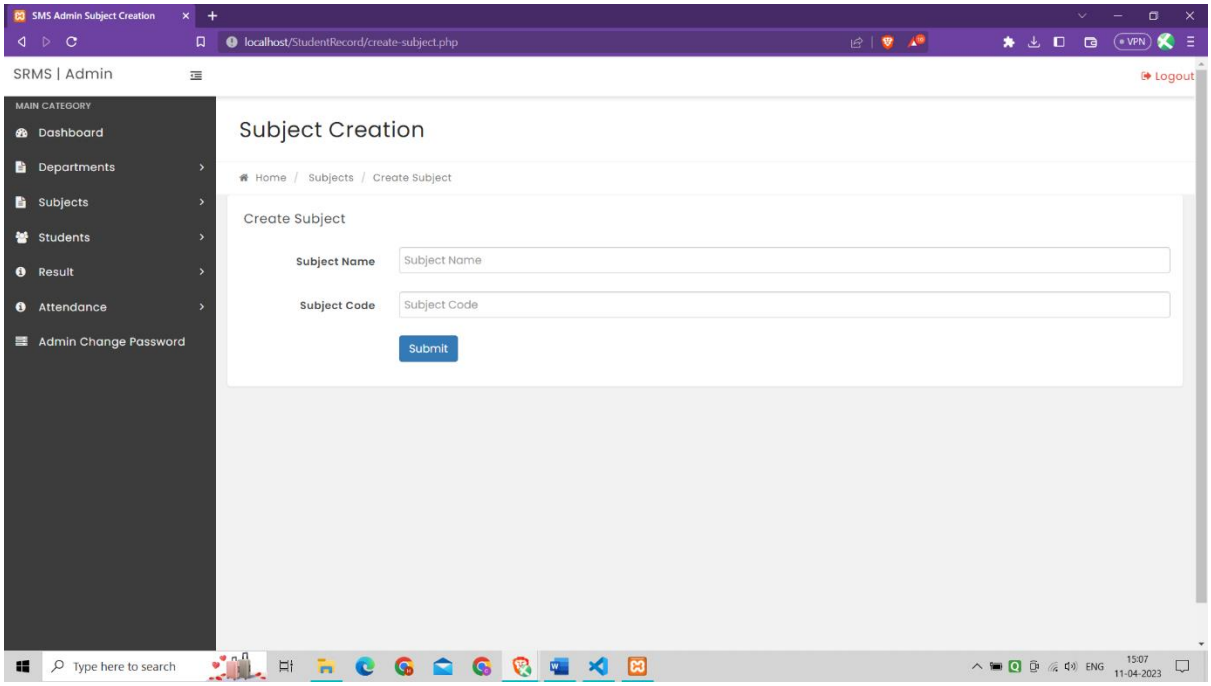
Manage Student:



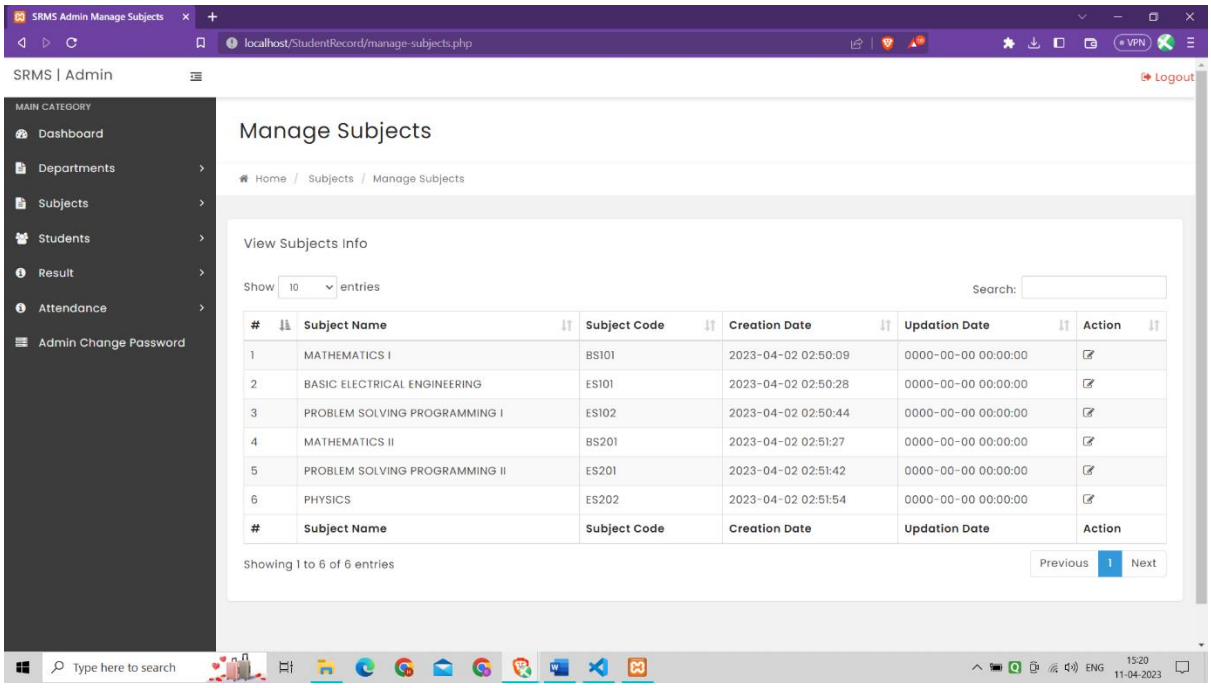
Update Student Details:



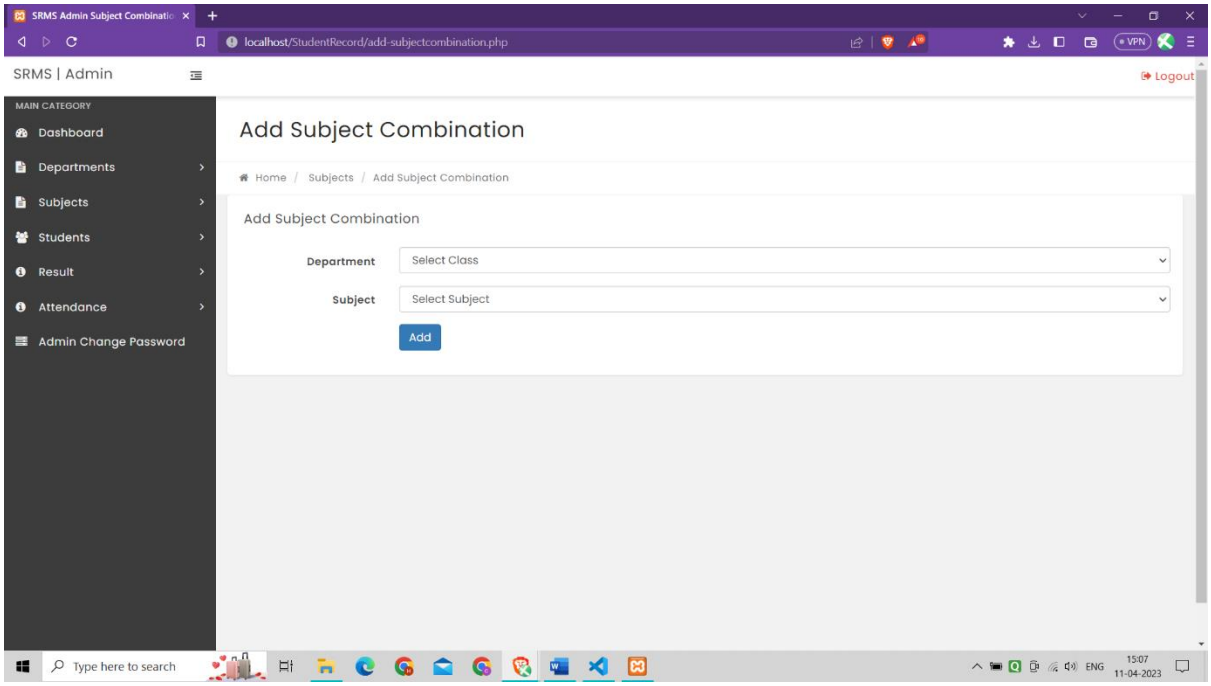
Create Subject:



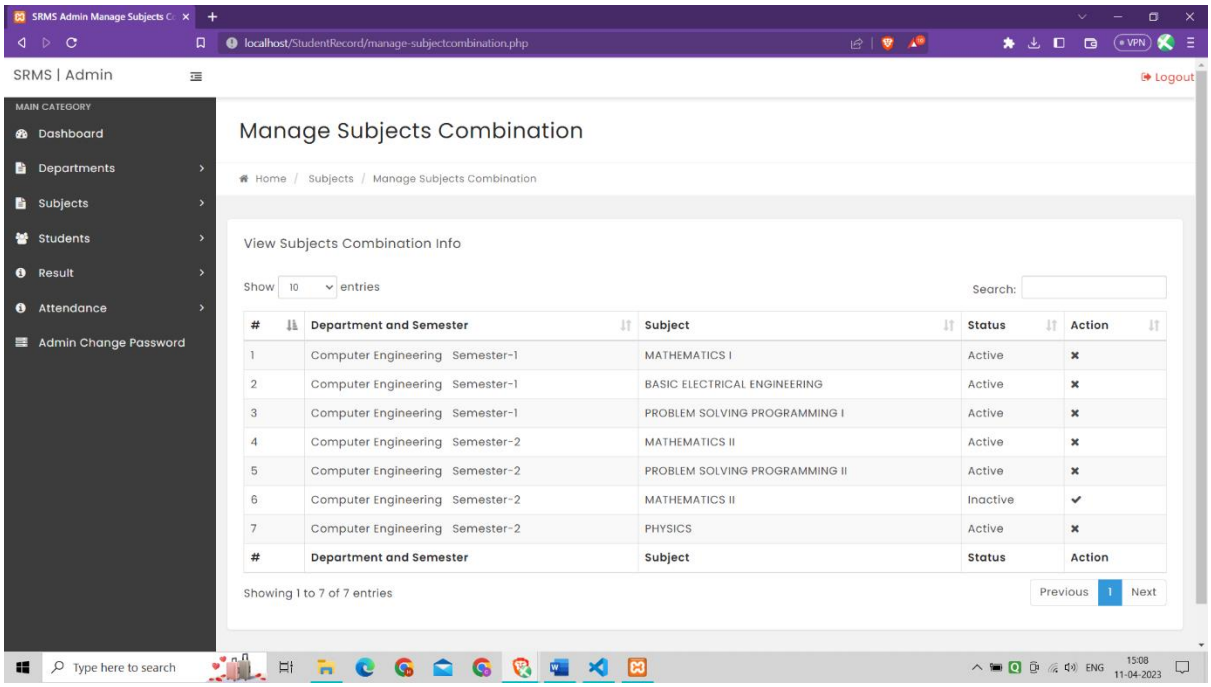
Manage Subject:



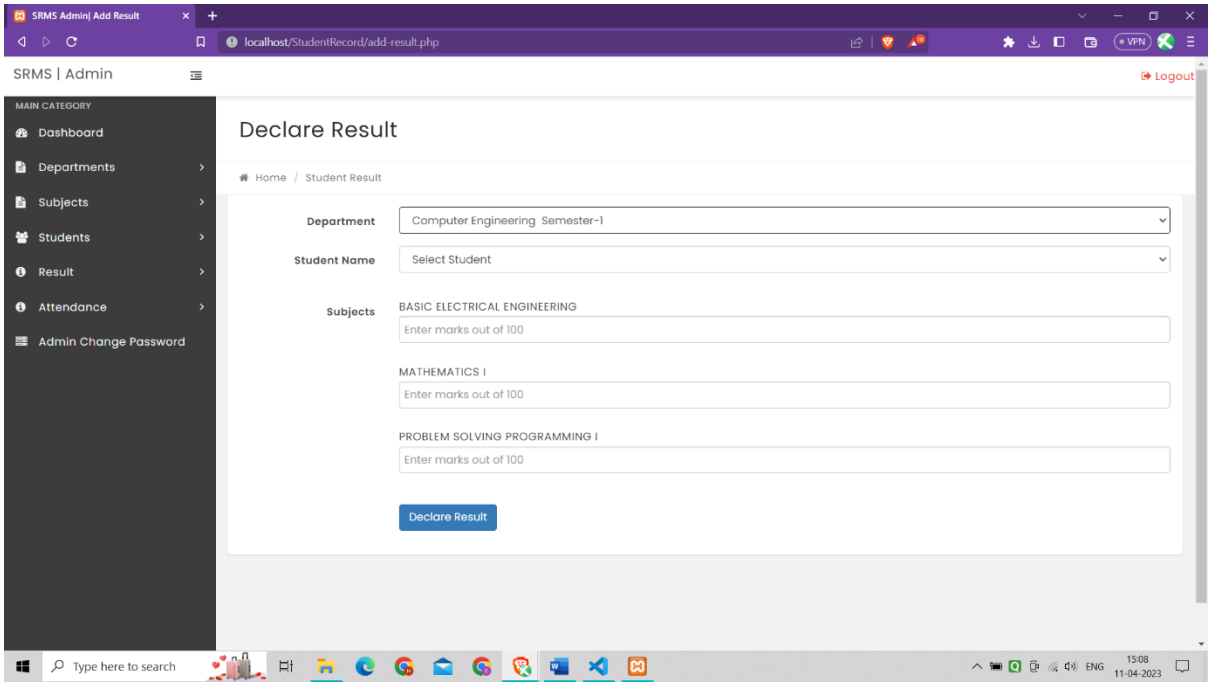
Create Subject Combination:



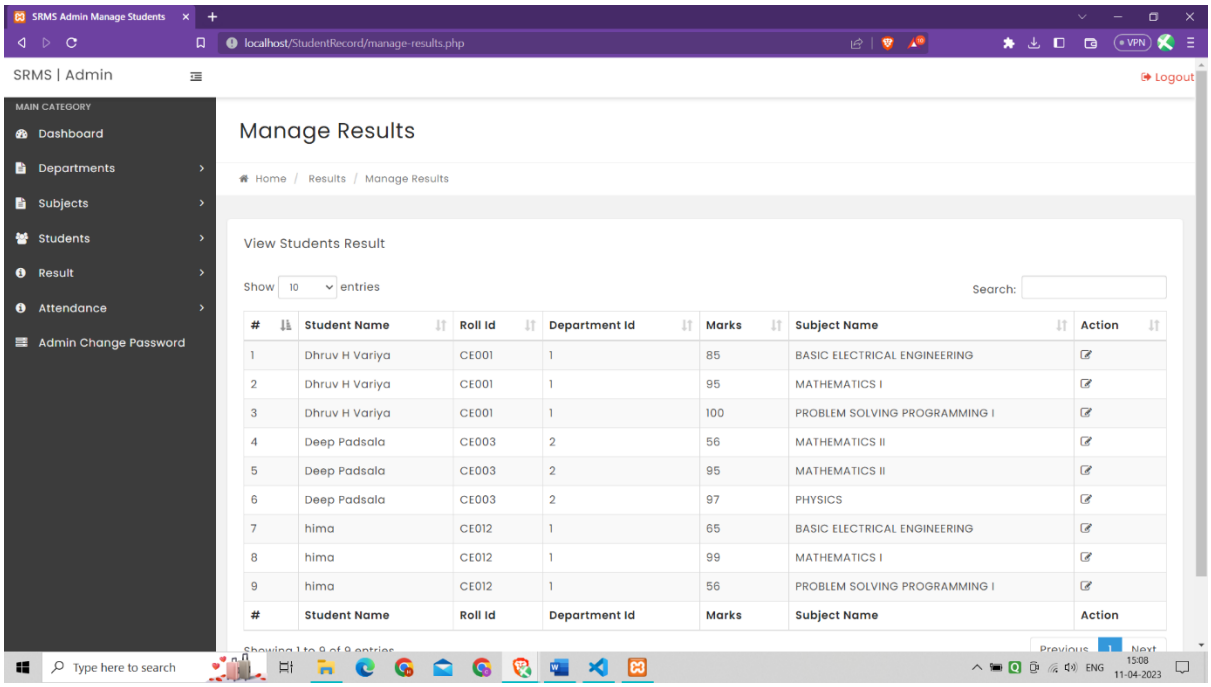
Manage Subject Combination:



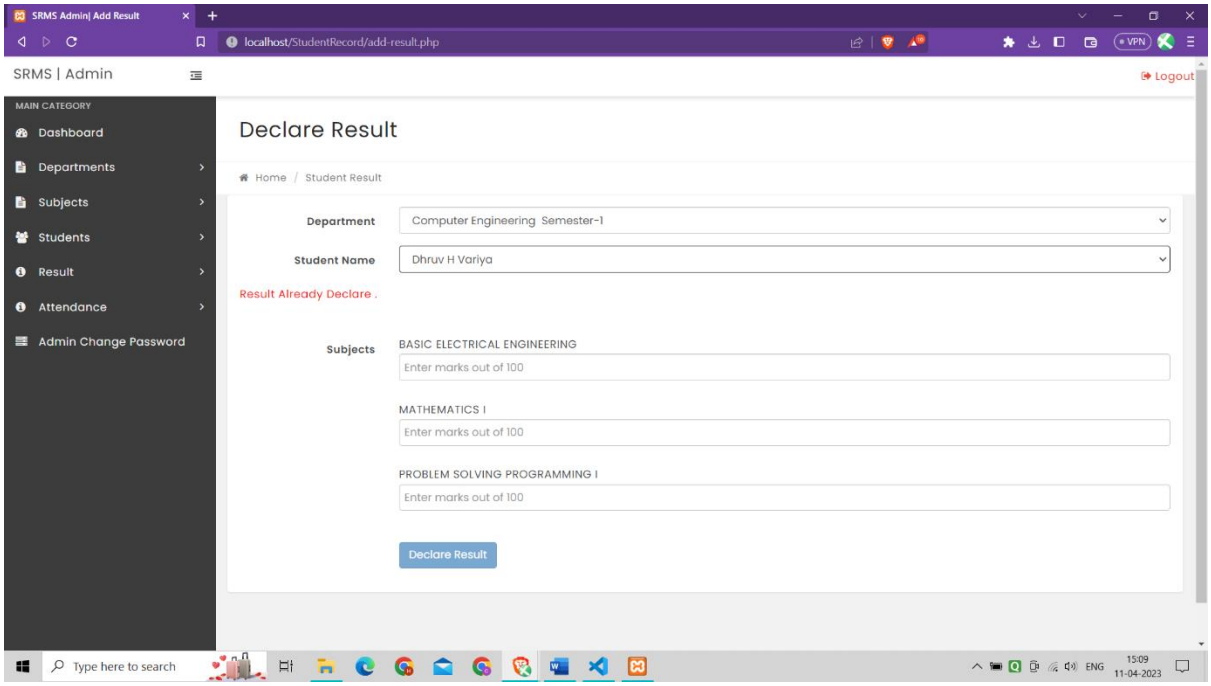
Add Result:



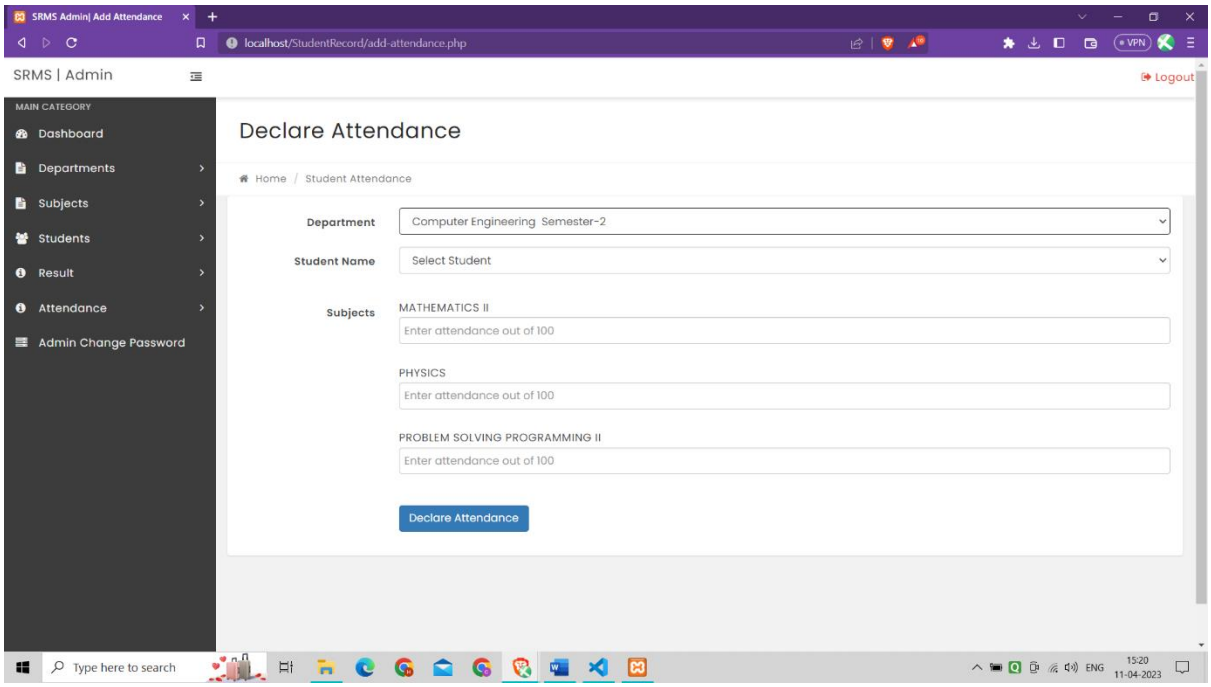
Manage Result:



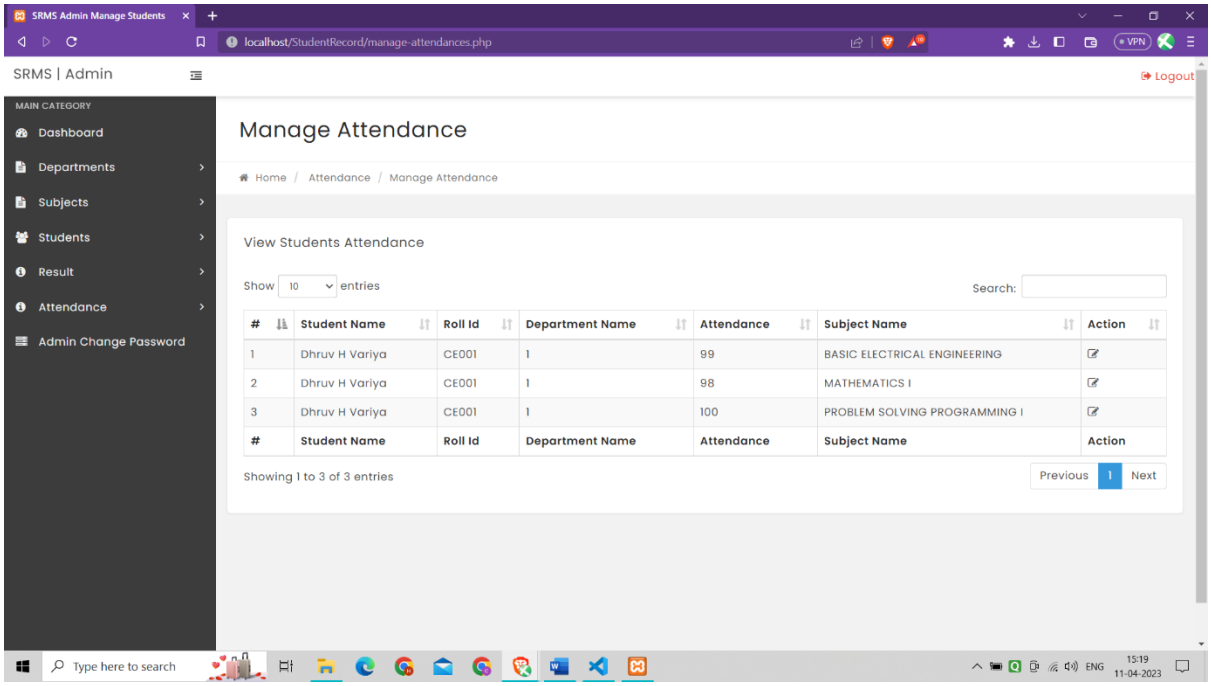
Redeclare Result:



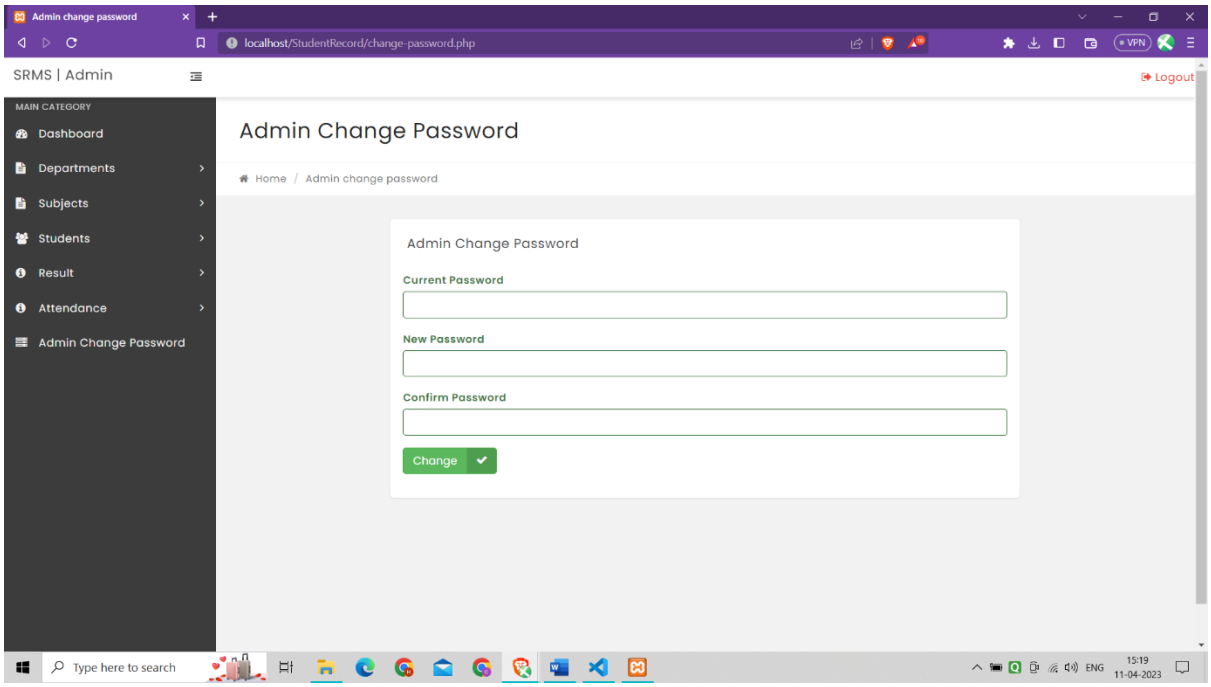
Add Attendance:



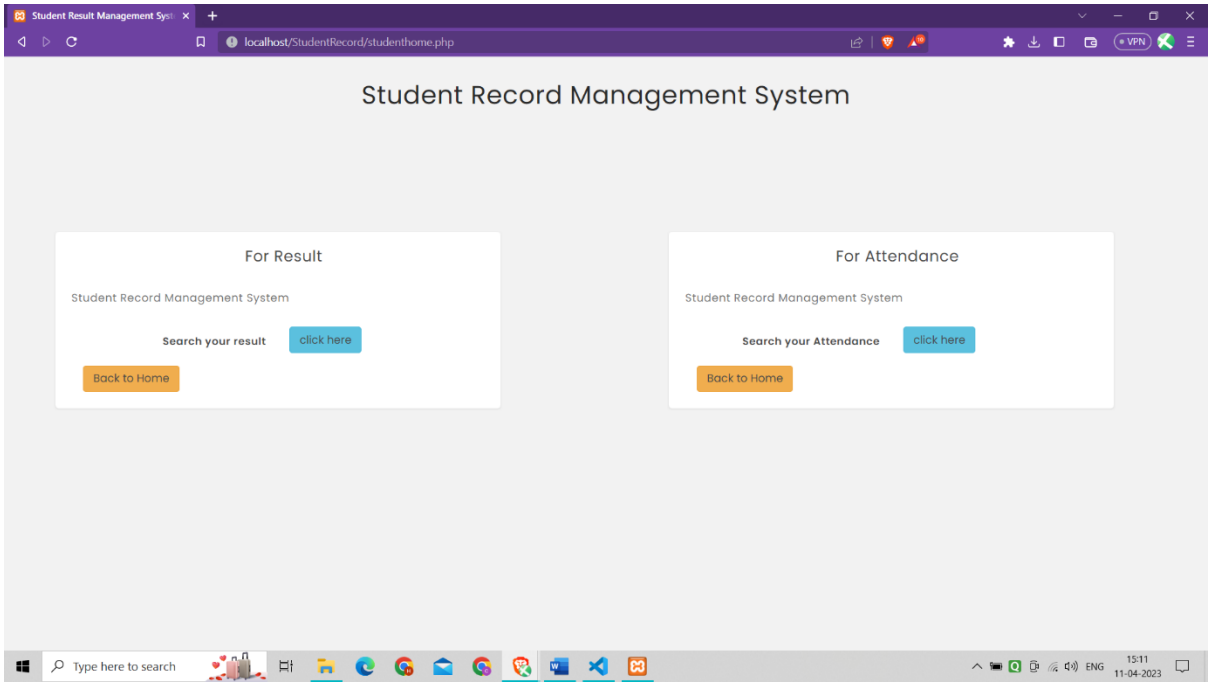
Manage Attendance:



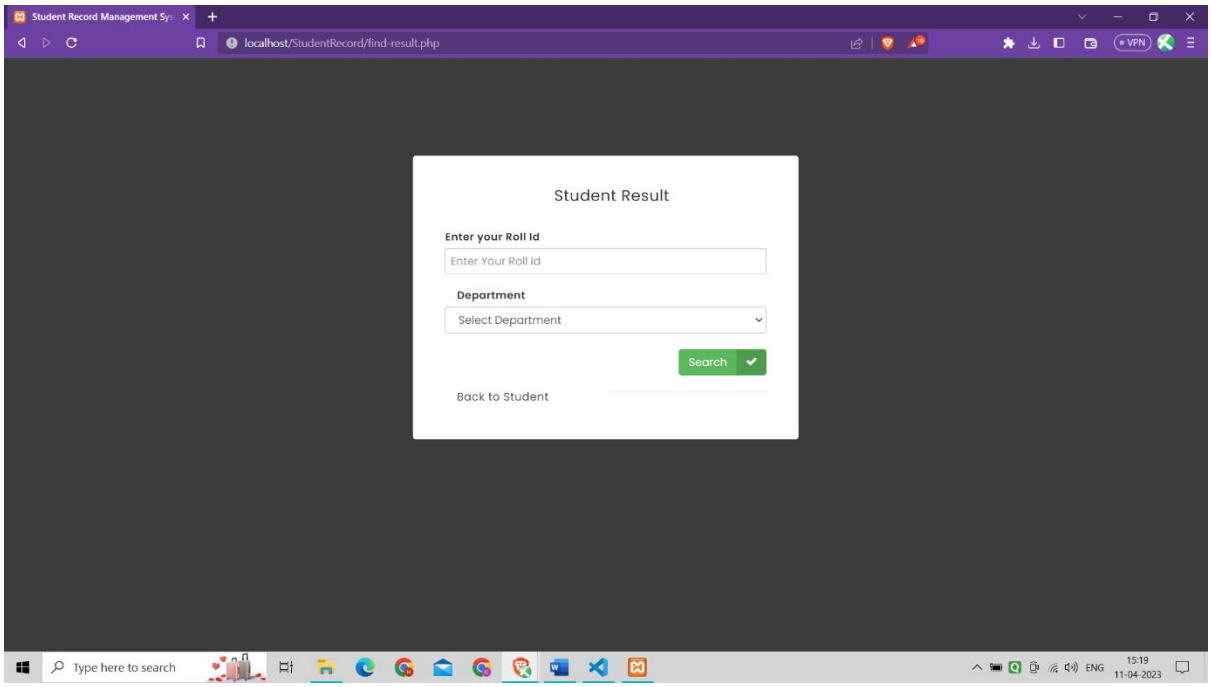
Admin Password Change:



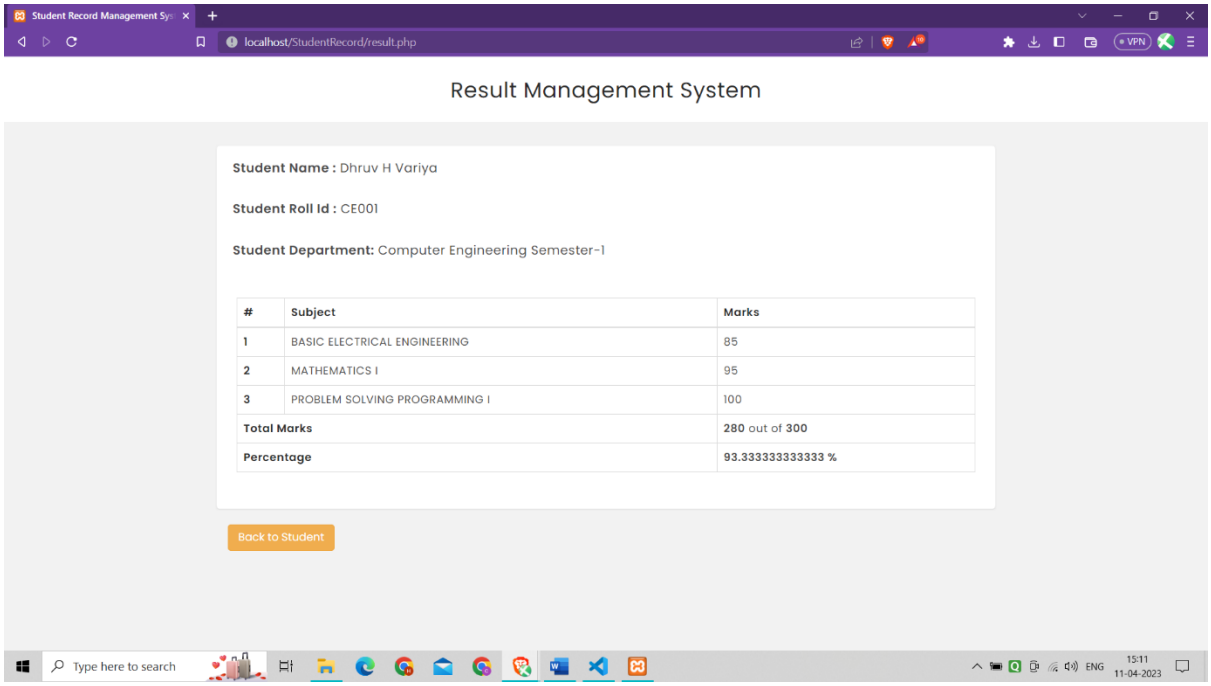
Student Homepage:



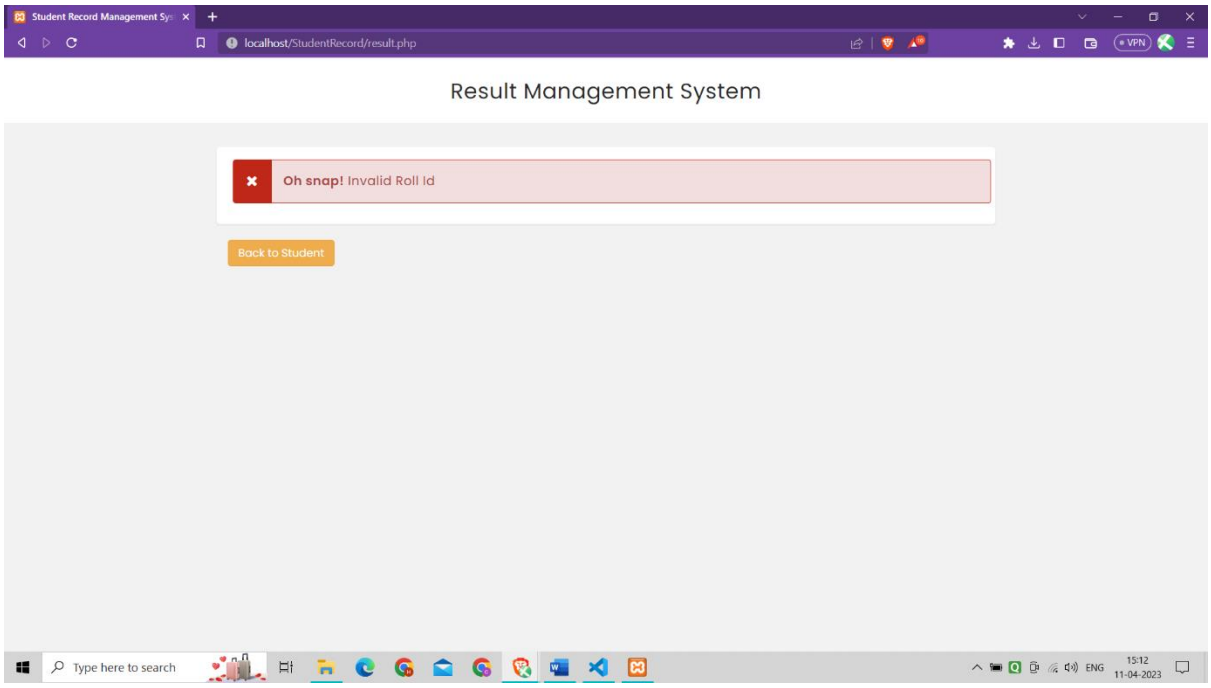
Find Result:



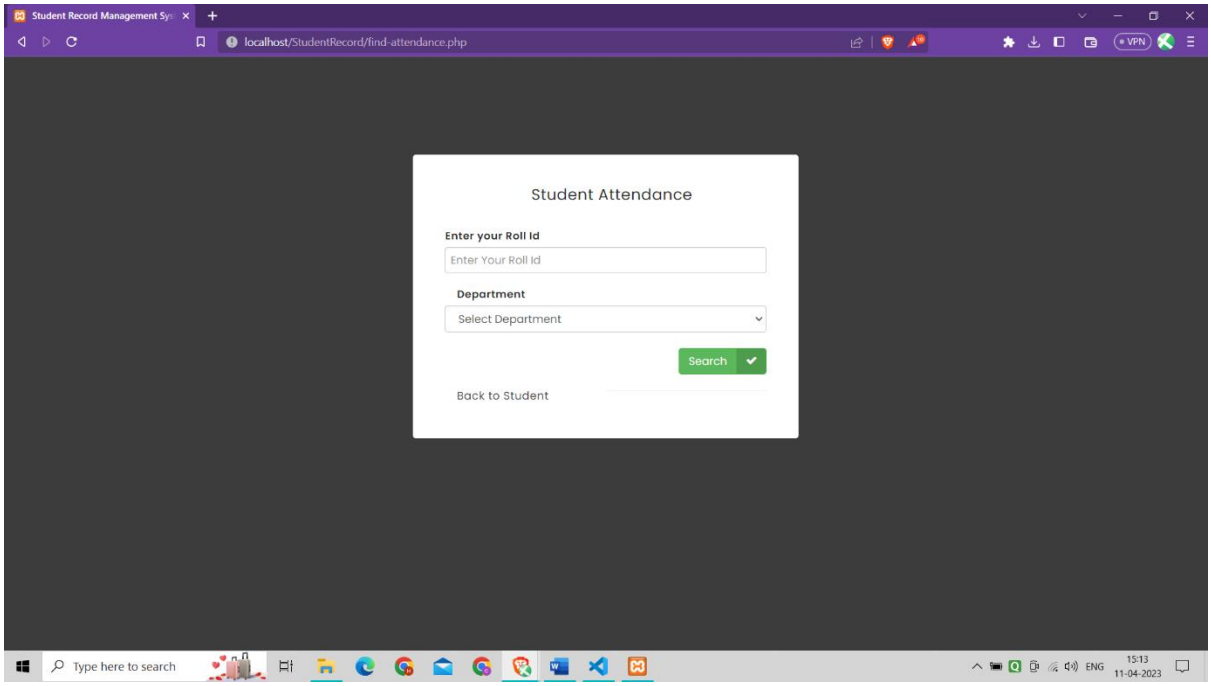
Student Result:



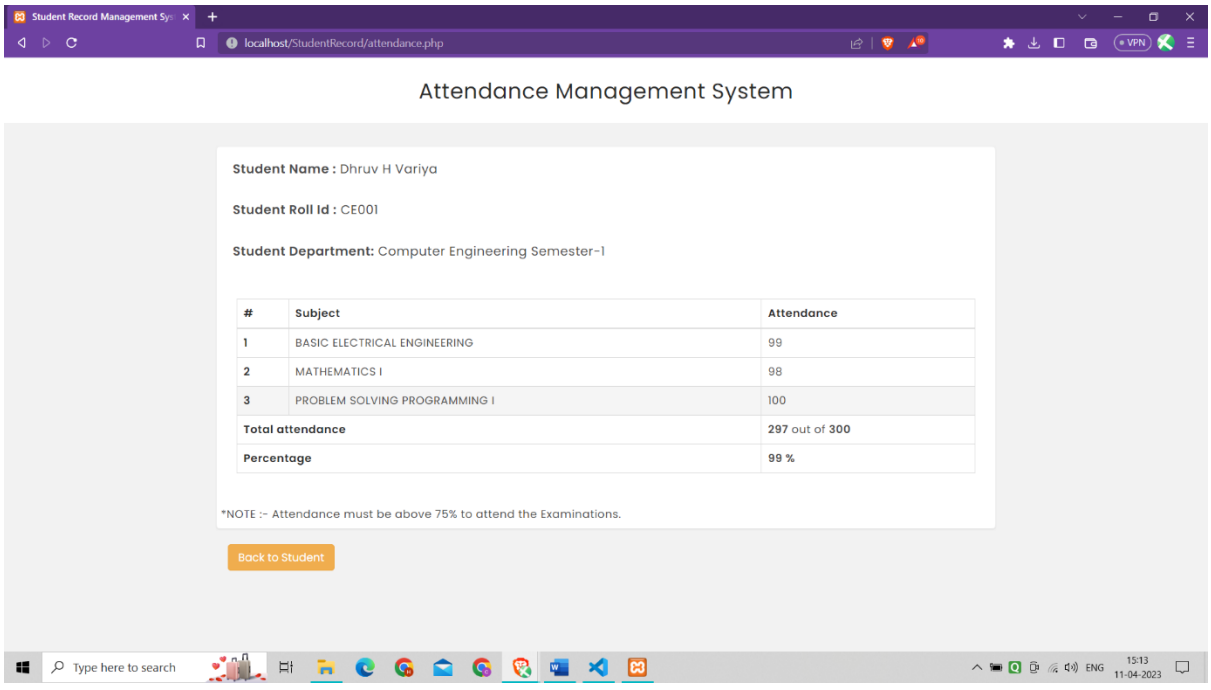
For Wrong details in searching Result:



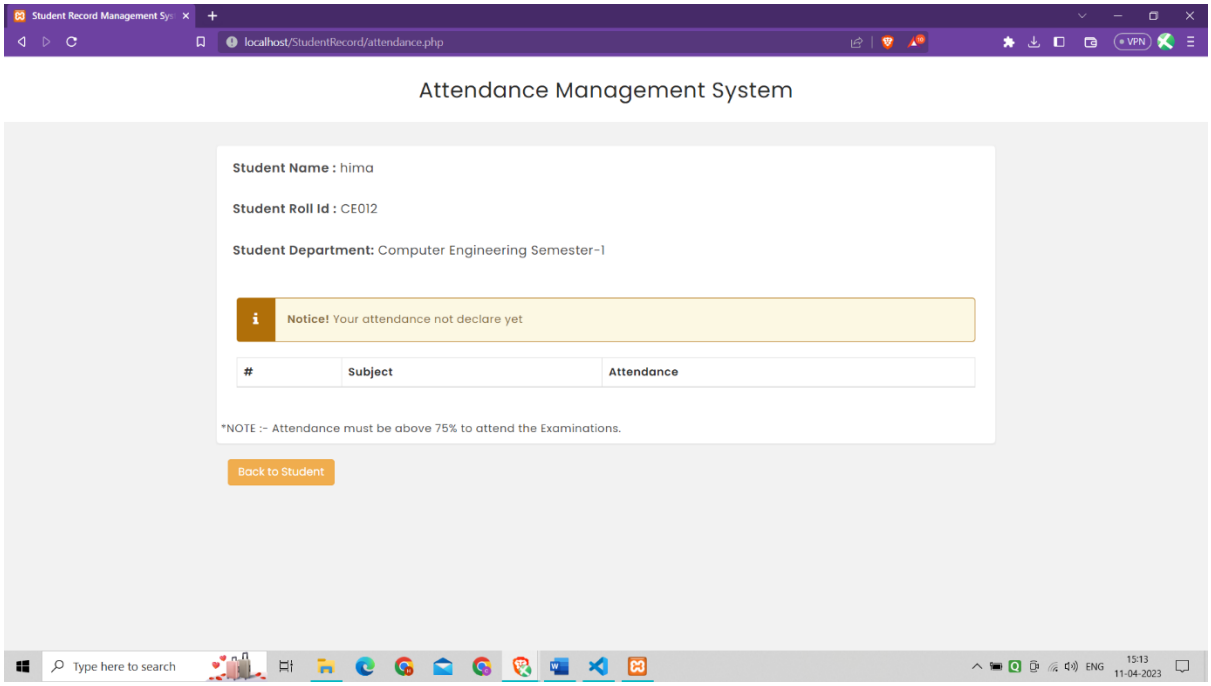
Find Attendance:



Student Attendance:



Not Declared Attendance:



CONCLUSION & FUTURE WORK

Limitations and Future Work:

- Limitations
  - In this system student can't login with their account.
  - Students can only see their result and attendance.
  - Every student can see anyone's result and attendance.
  - Students can't download their marksheet.

- Future Work
  - Students are login with their roll no. and password.
  - Students can download their result and get some privacy with their result and marksheet.

Conclusion:

The Student Record Management System is an important tool for educational institutions to manage student records efficiently. The system should meet the functional and non-functional requirements specified in this document. The system should be user-friendly, reliable, and secure, and should undergo rigorous testing before deployment.