

Faculty Time Table Management System

*An Industry Oriented Project Report Submitted
In partial fulfillment of the requirement for the award of the degree of*

***Bachelor of Technology
In
Computer Science and Engineering -Artificial Intelligence and Machine
Learning***

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2022-2026

DECLARATION

I hereby declare that the project entitled “**Faculty Time Table Management System**” submitted to **Malla Reddy College of Engineering and Technology**, affiliated to Jawaharlal Nehru Technological University Hyderabad (JNTUH) for the award of the degree of **Bachelor of Technology in Computer Science and Engineering- Artificial Intelligence and Machine Learning** is a result of original research work done by me.

It is further declared that the project report or any part there of has not been previously submitted to any University or Institute for the award of degree or diploma.

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Affiliated to JNTUH; Approved by AICTE, NBA-Tier 1 & NAAC with A-GRADE | ISO 9001:2015

CERTIFICATE

This is to certify that this is the bonafide record of the project titled “**Faculty Time Table Management System**” submitted by **R.Koushik Maharushi (22N31A66F3), V.Sreeja (22N31A66J0), S.Vennela (22N31A66J4), P.Tharun (22N31A66E2)** of B.Tech in the partial fulfillment of the requirements for the degree of **Bachelor of Technology in Computer Science and Engineering- Artificial Intelligence and Machine Learning**, Dept. of CI during the year 2023-2024. The results embodied in this project report have not been submitted to any other university or institute for the award of any degree or diploma.

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ABSTRACT

The Faculty Time Table Management System (FTTMS) is a comprehensive project designed to streamline scheduling processes within academic institutions. Primarily catering to faculty members, the system offers a user-friendly interface for accessing and managing individual class schedules. Faculty users can conveniently view their assigned classes and, if necessary, request swaps with other faculty members, enhancing flexibility and accommodating unforeseen circumstances. Furthermore, the system provides hierarchical access, granting Heads of Departments (HODs) oversight capabilities. HODs can monitor and access the schedules of all faculty members under their purview, facilitating efficient resource allocation and ensuring optimal class coverage. Additionally, HODs can review historical data to analyze scheduling trends and make informed decisions regarding faculty assignments. The administrative component of FTTMS enables seamless data entry and management of faculty schedules. Admin personnel can efficiently input and update faculty information, ensuring the accuracy and integrity of the system's database. Overall, the Faculty Time Table Management System offers a centralized platform that promotes collaboration, flexibility, and efficient scheduling management within academic institutions.

TABLE OF CONTENTS

S.No.	Topic	Page No.
1	INTRODUCTION.....	1
	1.1 Purpose.....	1
	1.2 Background of project.....	1
	1.3 Scope of project.....	2
	1.4 Project features.....	2
2	SYSTEM REQUIREMENTS.....	3
	2.1 Hardware Requirements.....	3
	2.2 Software Requirements.....	3
	2.3 Existing System.....	3
	2.4 Proposed System.....	4
3	SYSTEM DESIGN.....	6
	3.1 System Architecture.....	7
	3.2 UML Diagram.....	7
4	IMPLEMENTATION.....	11
	4.1 Source Code.....	11
	4.2 Output Screens.....	21
5	CONCLUSION & FUTURE SCOPE.....	28
	5.1 Conclusion.....	28
	5.2 Future Scope.....	28
6	BIBLIOGRAPHY.....	29

CHAPTER 1

INTRODUCTION

1.1 Purpose:

The purpose of the document for the Faculty Time Table Management System (FTTMS) is to provide a succinct overview of the system's objectives, features, and benefits. The FTTMS streamlines scheduling in academic institutions, offering faculty a user-friendly interface to manage and swap class schedules. Heads of Departments (HODs) gain oversight and resource allocation capabilities, while administrators ensure accurate data management. Overall, the FTTMS enhances flexibility, collaboration, and efficiency in scheduling, serving as a centralized platform for improved communication and coordination among faculty, HODs, and administrative staff.

1.2 Background of project:

The Faculty Time Table Management System (FTTMS) project is a strategic response to the longstanding challenges posed by manual scheduling processes in academic institutions. Traditional methods often lead to errors, scheduling conflicts, and significant administrative overheads, which can impede faculty productivity and hinder efficient resource allocation. Recognizing the need for a more streamlined and adaptable approach, the FTTMS project aims to revolutionize scheduling operations through automation and enhanced flexibility.

At its core, the FTTMS empowers faculty members with user-friendly interfaces to efficiently manage their schedules. By offering features such as easy access to class timetables and the ability to request schedule changes, the system enhances faculty autonomy and responsiveness to evolving needs. Simultaneously, administrative staff benefit from automated data entry and management tools, reducing manual workload and ensuring the accuracy of scheduling information. Through these innovations, the FTTMS project seeks to modernize scheduling.

1.3 Scope of project:

The Faculty Time Table Management System (FTTMS) project entails developing a comprehensive software solution to streamline scheduling processes within academic institutions. This includes designing user-friendly interfaces for faculty to manage class schedules, administrative tools for efficient data management, and oversight features for Heads of Departments. Integration with existing systems will be ensured, and thorough testing will be conducted for reliability. Comprehensive training programs will be provided for faculty, HODs, and administrative staff to familiarize them with the FTTMS. Post-deployment support services will be available to address any issues and implement updates. Leveraging data analytics, the FTTMS will enable informed decision-making regarding resource allocation and scheduling optimization, ultimately enhancing scheduling efficiency and operational effectiveness in academic environments.

1.4 Project Features:

The system features are as follows:

1. **User-Friendly Interfaces:** Intuitive interfaces for faculty members to easily access and manage their class schedules.
2. **Schedule Management:** Tools for faculty to view, modify, and request swaps for their class schedules, enhancing flexibility.
3. **Administrative Tools:** Functions for administrative staff to efficiently input, update, and manage faculty schedules, ensuring data accuracy.
4. **Oversight Capabilities:** Features for Heads of Departments to monitor and manage the schedules of faculty members under their purview.
5. **Hierarchical Access:** Access control mechanisms to grant different levels of access to faculty, HODs, and administrative personnel.

CHAPTER 2

SYSTEM REQUIREMENTS

2.1 Hardware Requirements:

- HDD 512 GB
- RAM 4 GB
- Processor i5
- Keyboard
- Mouse

2.2 Software requirements:

Frontend:

- HTML5
- CSS3
- JavaScript ES6
- php 7.4

Backend:

- MySQL 8.0

Operating System:

- Windows 11

2.3 Existing System:

The existing system for academic schedule management typically relies on manual processes, including spreadsheets or basic scheduling software, for creating and managing class timetables. These systems often lack flexibility, making it challenging to accommodate faculty preferences or handle scheduling changes efficiently. Additionally, oversight capabilities for department heads are limited, and data analysis for optimizing resource allocation is minimal. Administrative staff spend considerable time managing schedules and resolving conflicts manually. The Faculty Time Table Management System (FTTMS) project aims to replace these inefficient manual processes with a comprehensive software solution that automates scheduling, enhances flexibility, provides robust oversight, and enables data-driven decision-making for improved resource allocation and scheduling optimization within academic institutions.

2.3.1 Drawbacks of existing system:

1. **Manual Processes:** Reliance on manual methods such as spreadsheets or paper-based forms leads to inefficiencies and errors in data entry and scheduling, consuming significant time and effort from administrative staff.
2. **Limited Flexibility:** Lack of flexibility in accommodating faculty preferences or handling scheduling changes results in difficulties in adjusting schedules, leading to scheduling conflicts and disruptions.
3. **Limited Oversight:** Department heads often have limited visibility and control over faculty schedules, making it challenging to ensure equitable distribution of teaching responsibilities and optimal resource allocation.
4. **Minimal Data Analysis:** The existing system typically lacks robust data analysis capabilities, hindering the identification of scheduling trends, optimization of resource allocation, and informed decision-making for scheduling improvements.
5. **Communication Gaps:** Inefficient communication channels for schedule changes and updates can lead to miscommunication among faculty, staff, and students, further complicating the scheduling process and increasing the potential for errors.

2.4 Proposed System:

The proposed Faculty Time Table Management System (FTTMS) is a sophisticated software solution designed to revolutionize scheduling processes within academic institutions. This comprehensive system offers a user-friendly interface tailored for faculty members, providing easy access to class schedules and enabling them to manage their schedules efficiently. Administrative personnel benefit from streamlined data entry and management tools, ensuring the accuracy and integrity of scheduling data. Moreover, Heads of Departments (HODs) gain oversight capabilities to monitor and manage the schedules of faculty members under their purview, facilitating efficient resource allocation and optimal

class coverage. The system implements hierarchical access control mechanisms to ensure data security and privacy, granting different levels of access to faculty, HODs, and administrative staff. Integration with existing institutional databases and systems is prioritized, facilitating seamless data exchange and compatibility. Furthermore, the FTTMS incorporates data analytics capabilities to analyze historical scheduling data, identify trends, and inform decision-making processes for scheduling improvements. Overall, the proposed FTTMS aims to enhance scheduling efficiency, flexibility, collaboration, and data-driven decision-making within academic institutions, promoting a more streamlined and effective scheduling environment.

CHAPTER 3

SYSTEM DESIGN

3.1 System Architecture

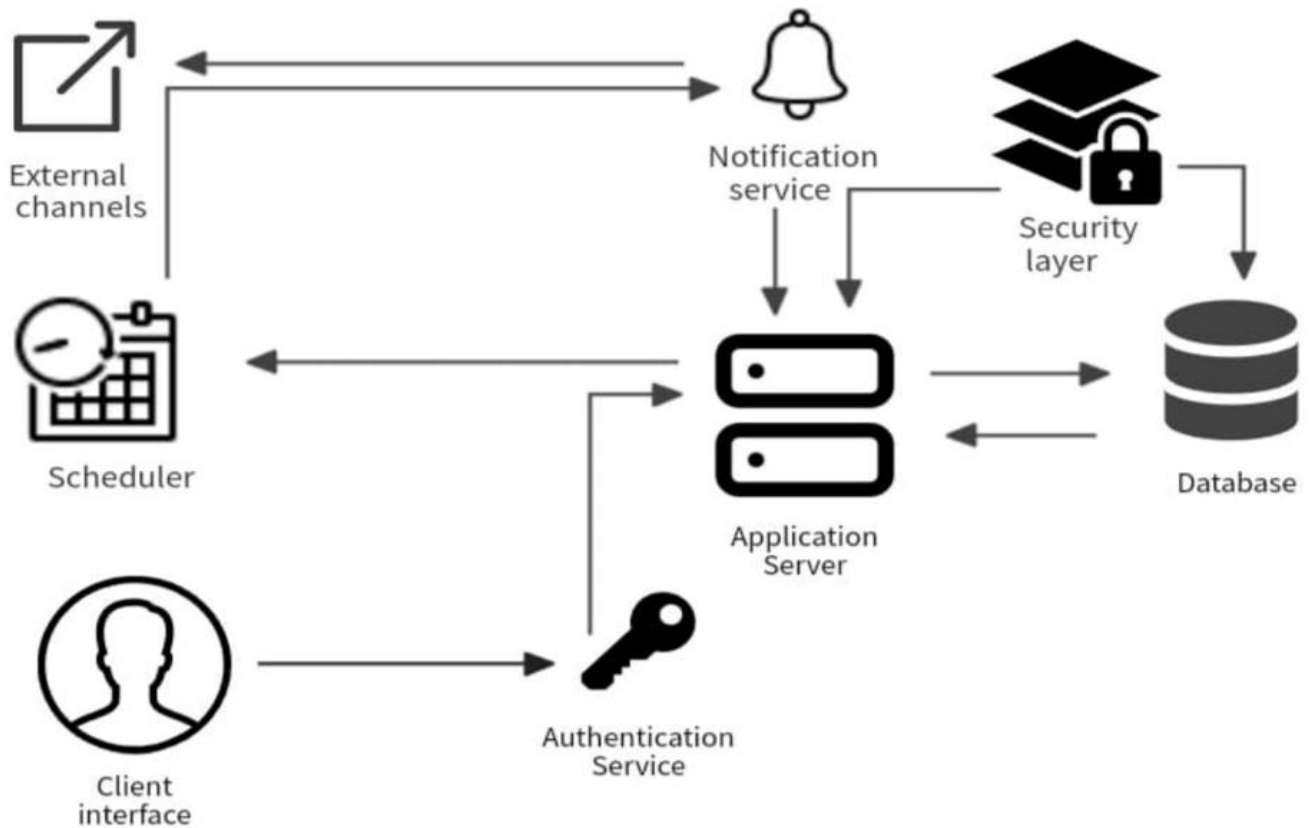


Fig 3.1 System Architecture of FTTMS

3.2 UML Diagrams

3.2.1 Use case diagram

Use Case during requirement elicitation and analysis to represent the functionality of the system. Use case describes a function by the system that yields a visible result for an actor. The identification of actors and use cases result in the definitions of the boundary of the system i.e., differentiating the tasks accomplished by the system and the tasks accomplished by its environment.

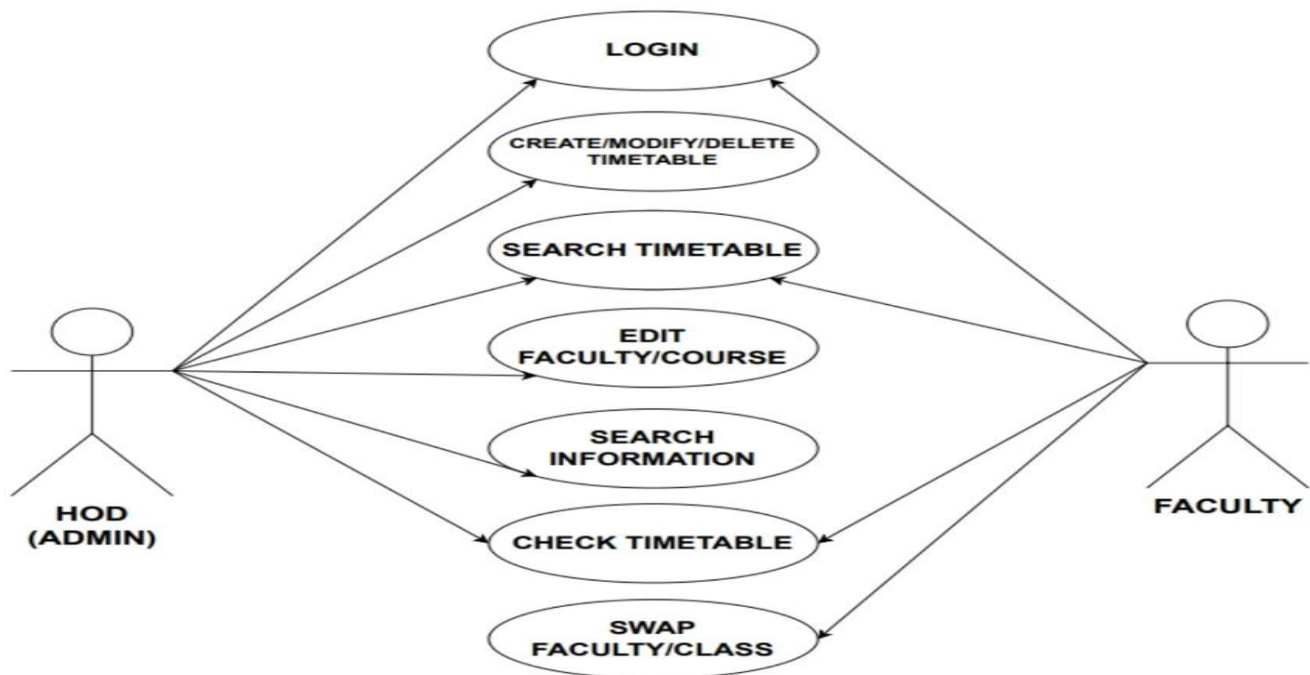


Fig 3.2 Use Case Diagram of FTTMS

3.2.2 Class Diagram

Class diagrams model class structure and contents using design elements such as classes, packages and objects. Class diagram describe the different perspective when designing a system-conceptual, specification and implementation. Classes are composed of three things: name, attributes, and operations. Class diagram also display relationships such as containment, inheritance, association etc. The association relationship is most common relationship in a class diagram. The association shows the relationship between instances of classes.

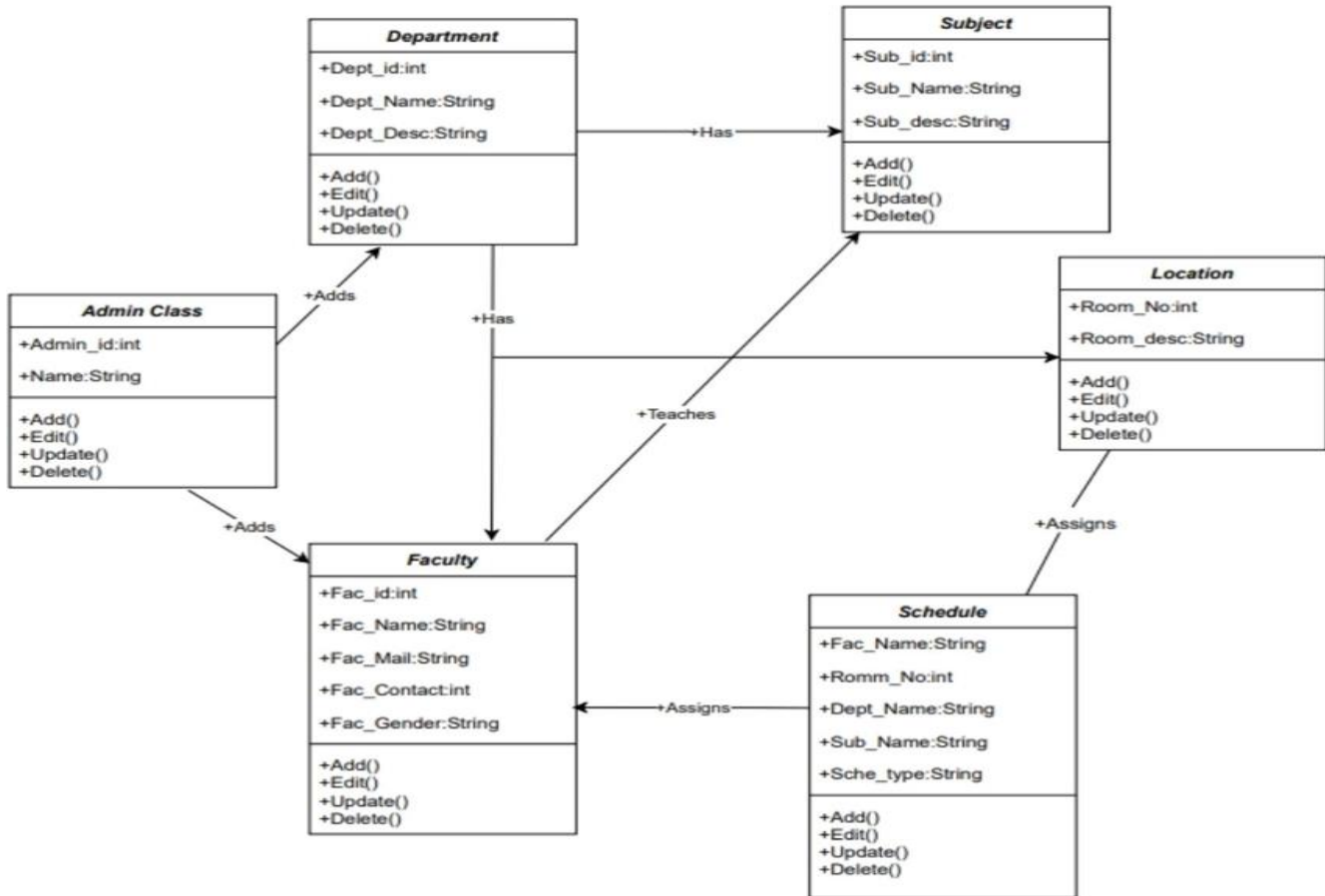


Fig 3.3 Class Diagram of FTTMS

3.2.3 Sequence Diagram

Sequence diagram displays the time sequence of the objects participating in the interaction. This consists of the vertical dimension (time) and horizontal dimension (different objects).

Objects: An object can be thought of as an entity that exists at a specified time and has a definite value, as well as a holder of identity. A sequence diagram depicts item interactions in chronological order. It illustrates the scenario's objects and classes, as well as the sequence of messages sent between them in order to carry out the scenario's functionality. In the Logical View of the system under development, sequence diagrams are often related with use case realizations. Event diagrams and event scenarios are other names for sequence diagrams. A sequence diagram depicts multiple processes or things that exist

simultaneously as parallel vertical lines (lifelines), and the messages passed between them as horizontal arrows, in the order in which they occur. This enables for the graphical specification of simple runtime scenarios.

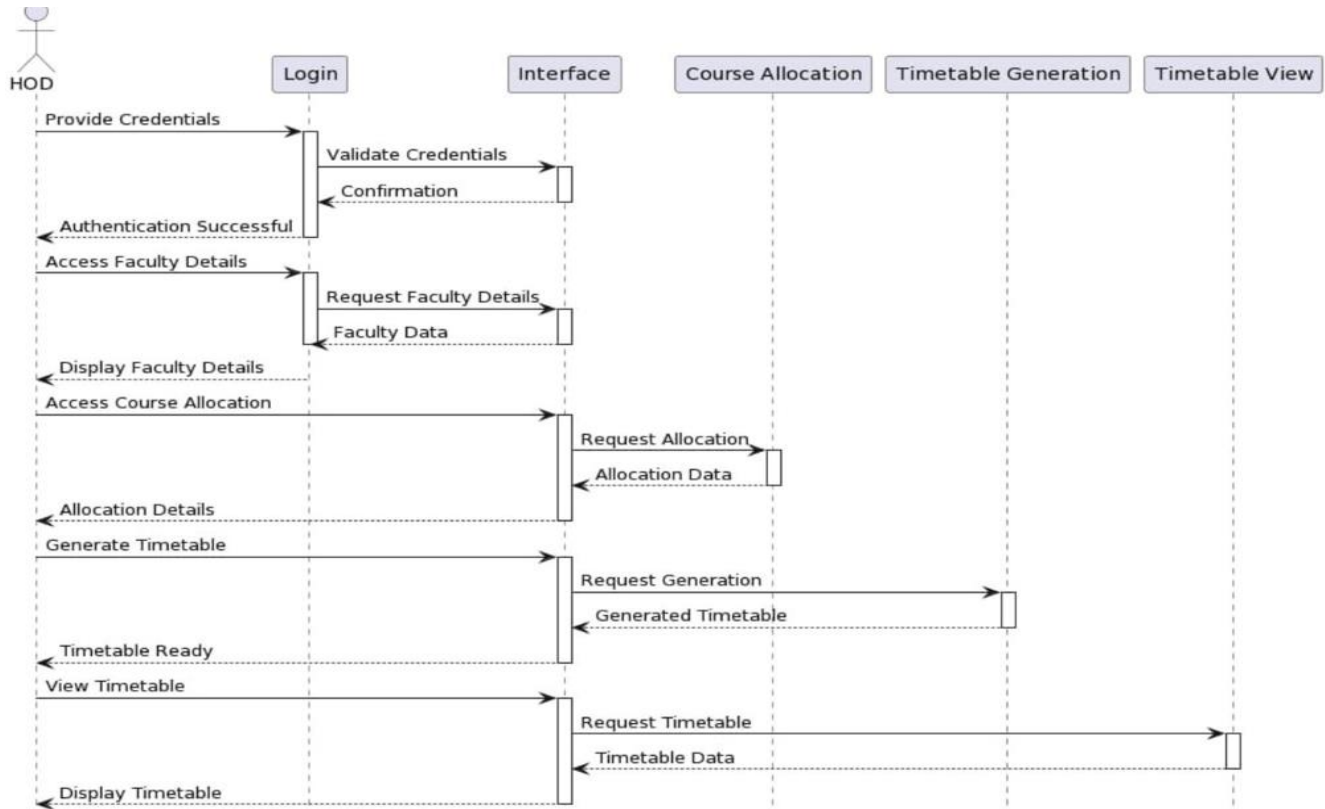


Fig 3.4 Sequence Diagram of FTTMS

3.2.4 Activity Diagram

The process flows in the system are captured in the activity diagram. Similar to a state diagram, an activity diagram also consists of activities, actions, transitions, initial and final states, and guard conditions



Fig 3.5 Activity Diagram of FTTMS

CHAPTER 4

IMPLEMENTATION

4.1: Code

```
<?php
// Start the session
session_start();
if (isset($_GET['success'])) {
    echo "<script type='text/javascript'>alert('Time Table Generated');</script>";
}
?>
<!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>TimeTable Management System</title>
    <script type="text/javascript" src="assets/jsPDF/dist/jspdf.min.js"></script>
    <script type="text/javascript" src="assets/js/html2canvas.js"></script>
    <link href="assets/css/bootstrap.css" rel="stylesheet"/>
    <link href="assets/css/font-awesome.min.css" rel="stylesheet"/>
    <link href="assets/css/style.css" rel="stylesheet"/>
    <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"
integrity="sha384-
B4gt1jrGC7Jh4AgTPSdUtOBvfO8shuf57BaghqFfPIYxofvL8/KUEfYiJOMMV+rV"
crossorigin="anonymous"></script>
    <link href='http://fonts.googleapis.com/css?family=Open+Sans:400,700,300'
rel='stylesheet' type='text/css'/>
</head>
<body>

<div class="navbar navbar-inverse navbar-fixed-top " id="menu">
```

```

<div class="container">
  <div class="navbar-header">
    <button type="button" class="navbar-toggle" data-toggle="collapse" data-
target=".navbar-collapse">
      <span class="icon-bar"></span>
      <span class="icon-bar"></span>
      <span class="icon-bar"></span>
    </button>

  </div>
  <div class="navbar-collapse collapse move-me">
    <ul class="nav navbar-nav navbar-left">
      <li><a href="addteachers.php">ADD FACULTY</a></li>
      <li><a href="addsubjects.php">ADD SUBJECTS</a></li>
      <li><a href="addclassrooms.php">ADD CLASSROOMS</a></li>
      <li class="dropdown"><a class="dropdown-toggle" data-toggle="dropdown"
aria-expanded="false">ALLOTMENT
        <span class="caret"></span></a>
        <ul class="dropdown-menu">
          <li>
            <a href=allotsubjects.php>THEORY COURSES</a>
          </li>
          <li>
            <a href=allotpracticals.php>PRACTICAL COURSES</a>
          </li>
          <li>
            <a href=allotclasses.php>CLASSROOMS</a>
          </li>
        </ul>
      </li>
      <li><a href="generatetimetable.php">GENERATE TIMETABLE</a></li>

    </ul>
    <ul class="nav navbar-nav navbar-right">
      <li><a href="index.php">LOGOUT <svg
xmlns="http://www.w3.org/2000/svg" width="13px" height="13" fill="currentColor"
class="bi bi-box-arrow-right" viewbox="0 0 16 16">
        <path fill-rule="evenodd" d="M10 12.5a.5.5 0 0 1-.5.5h-8a.5.5 0 0 1-.5-
.5v-9a.5.5 0 0 1 .5-.5h8a.5.5 0 0 1 .5.5v2a.5.5 0 0 1 0v-2A1.5 1.5 0 0 0 9.5 2h-8A1.5
1.5 0 0 0 3.5v9A1.5 1.5 0 0 0 1.5 14h8a1.5 1.5 0 0 0 1.5-1.5v-2a.5.5 0 0 0-1 0z"/>

```

```

        <path fill-rule="evenodd" d="M15.854 8.354a.5.5 0 0 0-.708l-3-3a.5.5 0 0
0-.708.708L14.293 7.5H5.5a.5.5 0 0 0 1h8.793l-2.147 2.146a.5.5 0 0 0 .708.708z"/>
        </svg></a></li>
    </ul>

```

```

    </div>
</div>
</div>

```

```

<br>

```

```

<div id="myModal" class="modal">
  <div class="modal-content">
    <div class="modal-header">
      <span class="close">&times</span>
      <h2 id="popupHead">Assign Substitute</h2>
    </div>
    <div class="modal-body" id="AssignSubstitute">
      <div style="display:block" id="assignSubstituteForm">
        <form method="post" action="assignSubstituteFormValidation.php">
          <div class="form-group">
            <label for="substitute">Substitute</label>
            <select class="form-control" id="substitute" name="SB">
              </select>
            <input type="hidden" id="cell_number" class="btn btn-default" name="CN">

```

```

          </div>
          <div align="right" class="form-group">

```

```

            <input type="submit" id="submit" class="btn btn-default" name="ADD"
            value="CHECK">

```

```

              </div>
            </form>
          </div>
        </div>
      </div>

```

```

    </div>

```

```

<script>
  var assignsubstitueForm = document.getElementById("assignSubstitueForm");
  // Get the <span> element that closes the modal

```

```

var modal = document.getElementById('myModal');
var span = document.getElementsByClassName("close")[0];
span.onclick = function () {
    modal.style.display = "none";
    assignsubstueForm.style.display = "none";
}

// When the user clicks anywhere outside of the modal, close it
window.onclick = function (event) {
    if (event.target == modal) {
        modal.style.display = "none";
        assignsubstueForm.style.display = "none";
    }
}
</script>
<form action="algo.php" method="post">
    <div align="center" style="margin-top: 50px">
        <button type="submit"
            id="generatebutton" class="btn btn-success btn-lg">GENERATE
        </button>
    </div>
</form>
<form action="generatetimetable.php" method="post">
    <div align="center" style="margin-top: 30px">
        <select name="select_teacher" class="list-group-item">
            <option selected disabled>Select Faculty</option>
            <?php
                $q = mysqli_query(mysqli_connect("localhost", "root", "", "tms"),
                    "SELECT * FROM teachers ");
                while ($row = mysqli_fetch_assoc($q)) {
                    echo " \<option
value=\"{" $row['faculty_number']}\>{" $row['name']}\</option>\"";
                }
            ?>

        </select>
        <button type="submit" id="viewteacher" class="btn btn-success btn-lg"
style="margin-top: 5px">VIEW TIMETABLE
        </button>
    </div>

```

```

</form>
<form action="generatetimetable.php" method="post">
  <div align="center" style="margin-top: 20px">
    <select name="select_semester" class="list-group-item">
      <option selected disabled>Select Course</option>
      <option value="3">CSE-AIML</option>
      <option value="5">BTech-AIML</option>
      <option value="7">AI & DS</option>
    </select>
    <button type="submit" id="viewsemester" class="btn btn-success btn-lg"
style="margin-top: 5px">VIEW TIMETABLE
    </button>
  </div>
</form>

```

```

<div>
  <br>
  <style>
    table {
      margin-top: 20px;
      font-family: arial, sans-serif;
      border-collapse: collapse;
      width: 100%;
    }

    td, th {
      border: 1px solid #000000;
      text-align: left;
      padding: 8px;
    }

  </style>
  <div id="TT" style="background-color: #FFFFFF">
    <table border="2" cellpadding="3" align="center" id="timetable">
      <caption><strong><br><br>
        <?php
          if (isset($_POST['select_semester'])) {
echo "COMPUTATIONAL INTELLIGENCE DEPARTMENT COURSE " .
$_POST['select_semester'] . " ";
$year = (int)($_POST['select_semester'] / 2) + $_POST['select_semester'] % 2;

```

```

$r = mysqli_fetch_assoc(mysqli_query(mysqli_connect("localhost", "root", "", "ttms"),
"SELECT * from classrooms
    WHERE status = '$year'"));
echo " ( " . $r['name'], " ) ";
} else if (isset($_POST['select_teacher'])) {
    $id = $_POST['select_teacher'];
    $r = mysqli_fetch_assoc(mysqli_query(mysqli_connect("localhost",
"root", "", "ttms"), "SELECT * from teachers
    WHERE faculty_number = '$id'"));
    echo $r['name'];
} else if (isset($_GET['display'])) {
    $id = $_GET['display'];
    $r = mysqli_fetch_assoc(mysqli_query(mysqli_connect("localhost",
"root", "", "ttms"), "SELECT * from teachers
    WHERE faculty_number = '$id'"));
    echo $r['name'];
}
?>

```

```

</strong></caption>
<tr>
<td style="text-align:center"><b>WEEKDAYS</b></td>
<td style="text-align:center"><b>9:20-10:20 </b></td>
<td style="text-align:center"><b>10:20-11:20</b></td>
<td style="text-align:center"><b>11:20-11:30</b></td>
<td style="text-align:center"><b>11:30-12:30</b></td>
<td style="text-align:center"><b>12:30-01:30</b></td>
<td style="text-align:center"><b>01:30-02:30</b></td>
<td style="text-align:center"><b>02:30-03:30</b></td>
</tr>
<tr>
<?php
$stable = null;
if (isset($_POST['select_semester'])) {
    $stable = " semester" . $_POST['select_semester'] . " ";
} else if (isset($_POST['select_teacher'])) {
    $stable = " " . $_POST['select_teacher'] . " ";
} else if (isset($_GET['display'])) {
    $stable = " " . $_GET['display'] . " ";
} else

```

```

        echo '</table>';
if (isset($_POST['select_semester']) || isset($_POST['select_teacher']) ||
isset($_GET['display'])) {
$q = mysqli_query(mysqli_connect("localhost", "root", "", "ttms"), "SELECT * FROM"
. $table);
$qq = mysqli_query(mysqli_connect("localhost", "root", "", "ttms"), "SELECT * FROM
subjects");
$days = array('<b>MONDAY</b>', '<b>TUESDAY</b>',
'<b>WEDNESDAY</b>', '<b>THURSDAY</b>', '<b>FRIDAY</b>',
'<b>SATURDAY</b>');
$i = -1;
$str = "<br>";
$id = "";
if (isset($_POST['select_semester'])) {
while ($r = mysqli_fetch_assoc($qq)) {
if ($r['isAlloted'] == 1 && $r['semester'] == $_POST['select_semester']) {
$str .= $r['subject_code'] . ": " . $r['subject_name'] . ", ";
if (isset($r['allotedto'])) {
$id = $r['allotedto'];
$qqq = mysqli_query(mysqli_connect("localhost", "root", "", "ttms"),
"SELECT * FROM teachers WHERE faculty_number = '$id'");
$rr = mysqli_fetch_assoc($qqq);
$str .= " " . $rr['alias'] . ": " . $rr['name'] . " ";
}
if ($r['course_type'] != "LAB") {
$str .= "<br>";
continue;
} else {
$str .= ", ";
}
}
if (isset($r['allotedto2'])) {
$id = $r['allotedto2'];
$qqq = mysqli_query(mysqli_connect("localhost", "root", "", "ttms"),
"SELECT * FROM teachers WHERE faculty_number = '$id'");
$rr = mysqli_fetch_assoc($qqq);
$str .= " " . $rr['alias'] . ": " . $rr['name'] . " ";
}
if (isset($r['allotedto3'])) {
$id = $r['allotedto3'];
$qqq = mysqli_query(mysqli_connect("localhost", "root", "", "ttms"),
"SELECT * FROM teachers WHERE faculty_number = '$id'");
$rr = mysqli_fetch_assoc($qqq);

```

```

$str .= " " . $rr['alias'] . ": " . $rr['name'] . "<br>";
}
}
}
} else if (isset($_POST['select_teacher']) || isset($_GET['display'])) {
    if (isset($_POST['select_teacher'])) {
        $tid = $_POST['select_teacher'];
    } else if (isset($_GET['display'])) {
        $tid = $_GET['display'];
        $tid = strtoupper($tid);
    }
    while ($r = mysqli_fetch_assoc($qq)) {
        if ($r['isAlloted'] == 1 && $r['allotedto'] == $tid) {
            $str .= $r['subject_code'] . ": " . $r['subject_name'] . " <br>";
        } else if ($r['isAlloted'] == 1 && isset($r['allotedto2']) &&
        $r['allotedto2'] == $tid) {
            $str .= $r['subject_code'] . ": " . $r['subject_name'] . " <br>";
        } else if ($r['isAlloted'] == 1 && isset($r['allotedto3']) &&
        $r['allotedto3'] == $tid) {
            $str .= $r['subject_code'] . ": " . $r['subject_name'] . " <br>";
        }
    }
}
while ($row = mysqli_fetch_assoc($q)) {
    $i++;

    echo "
    <tr><td style=\"text-align:center\">$days[$i]</td>
    <td style=\"text-align:center\">{$row['period1']}</td>
    <td style=\"text-align:center\">{$row['period2']}</td>
    <td style=\"text-align:center\">{$row['period3']}</td>
    <td style=\"text-align:center\">{$row['period4']}</td>
    <td style=\"text-align:center\">{$row['period5']}</td>
    <td style=\"text-align:center\">LUNCH</td>
    <td style=\"text-align:center\">{$row['period6']}</td>
    </tr>\n";
}

    echo '</table>';

```



```

        $sign = "MALLA REDDY COLLEGE OF ENGINEERING AND
TECHNOLOGY (MRCET)";
        echo "<div style='margin-left: 10px' align='center'>" . "<br>" . $str .
"<br></div>" .
        "<div style='margin-left: 10px' align='center'>" . "<strong>" . $sign .
"<br></strong></div>";
    }
    if (isset($_POST['select_teacher'])) {
        echo "<script>Substitute();</script>";
        $_SESSION['shown_id'] = $_POST['select_teacher'];
    }
    if (isset($_GET['display'])) {
        echo "<script>Substitute();</script>";
        $_SESSION['shown_id'] = $_GET['display'];
    }
    ?>
</div>
</div>
<script type="text/javascript">
function gendf() {
    var doc = new jsPDF();

    doc.addHTML(document.getElementById('TT'), function () {
        doc.save('<?php
            if (isset($_POST["select_semester"])) {
                echo "ttms semester " . $_POST["select_semester"];
            } else if (isset($_POST["select_teacher"])) {
                echo "ttms " . $_POST["select_teacher"];
            } else if (isset($_GET["display"])) {
                echo "ttms " . $_GET["display"];
            }
            ?>' + '.pdf');
        ,alert("Downloaded!"));
    });
}

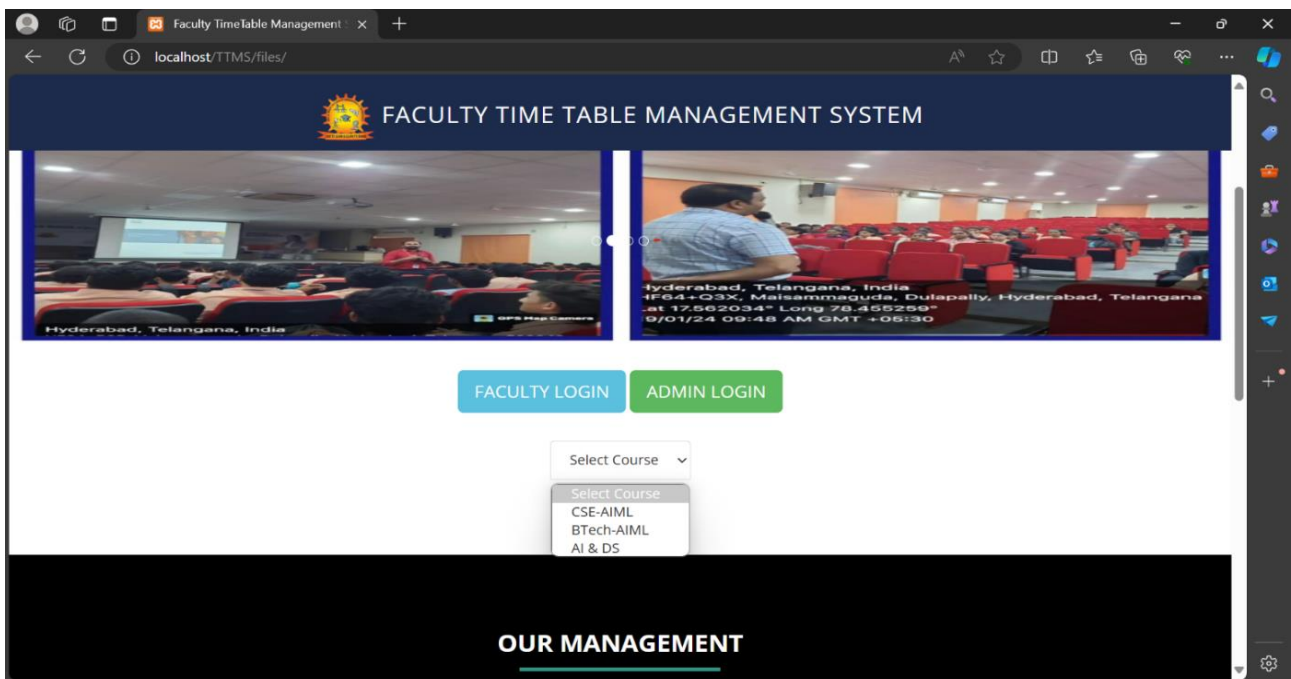
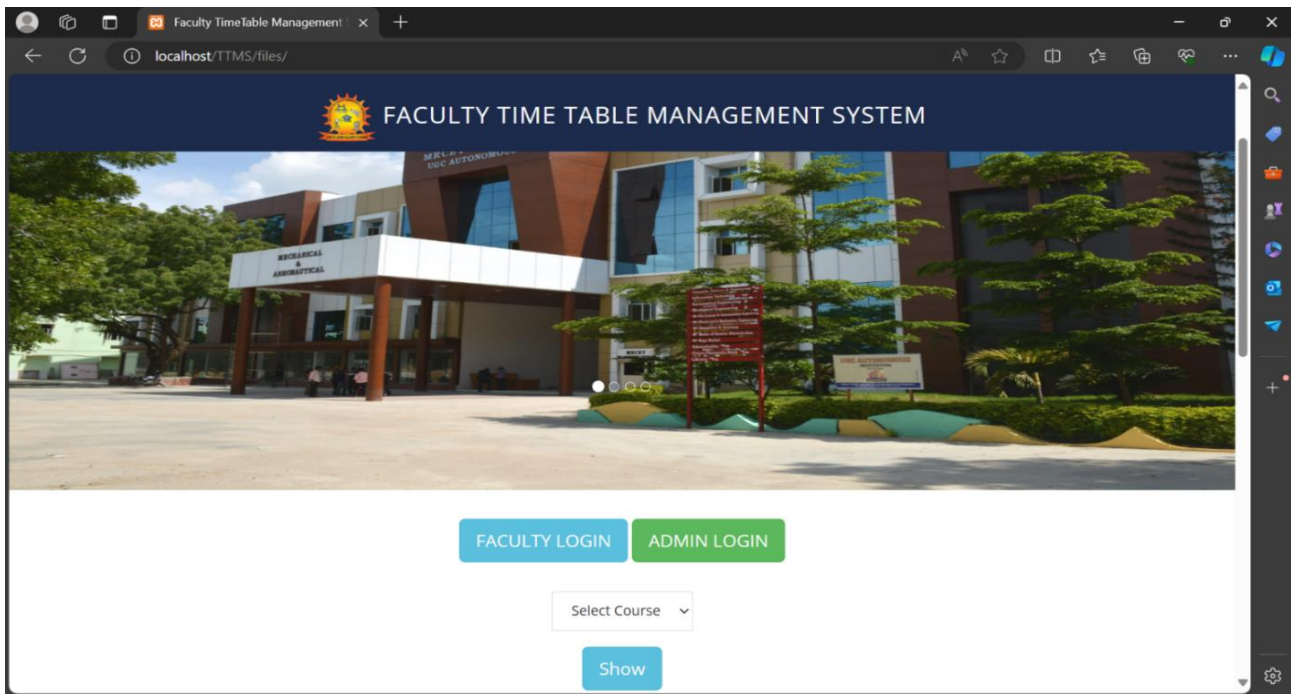
</script>
<div align="center" style="margin-top: 10px">

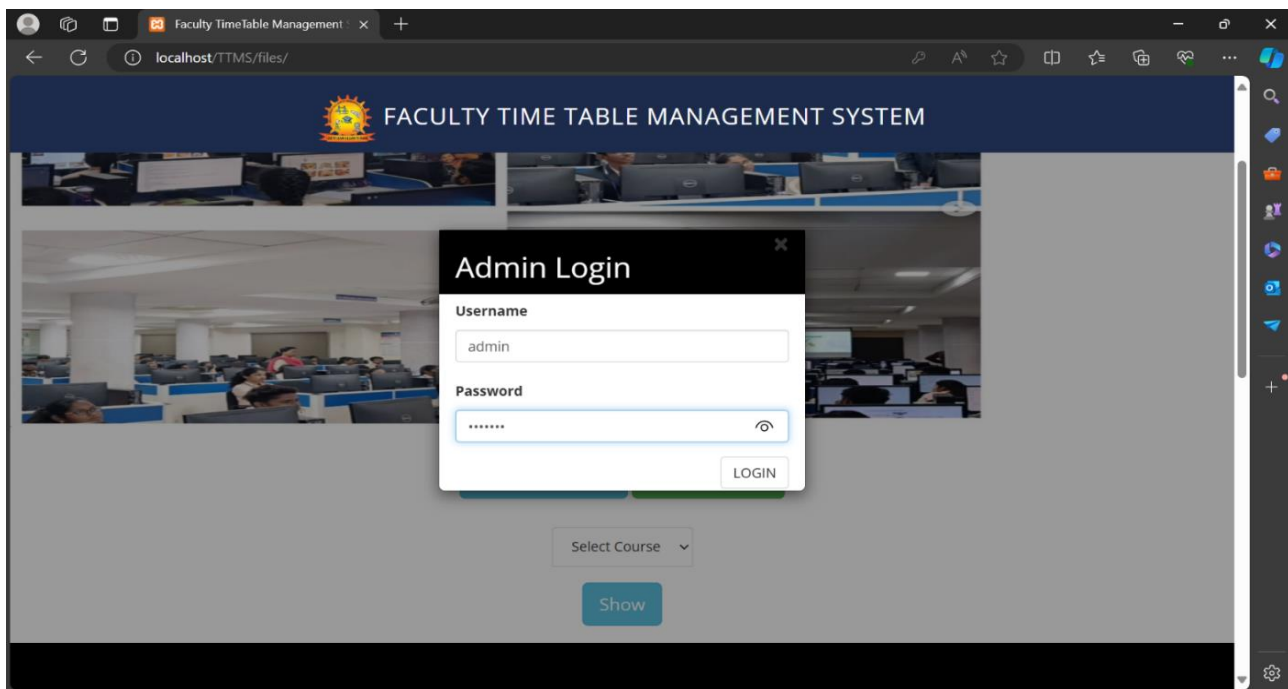
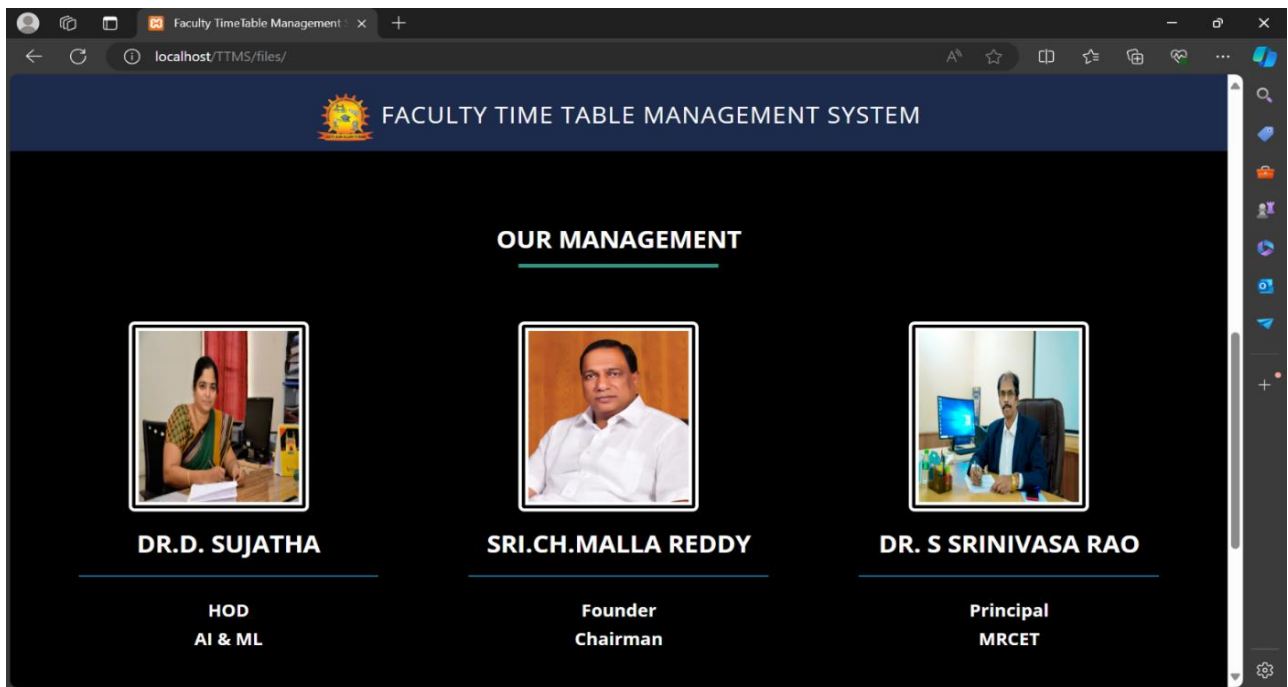
```

```
<button id="saveaspdf" class="btn btn-info btn-lg" onclick="gendf()">SAVE AS  
PDF</button>  
</div>
```

```
<script src="assets/js/jquery-1.10.2.js"></script>  
<script src="assets/js/bootstrap.js"></script>  
<script src="assets/js/jquery.flexslider.js"></script>  
<script src="assets/js/scrollReveal.js"></script>  
<script src="assets/js/jquery.easing.min.js"></script>  
<script src="assets/js/custom.js"></script>  
</body>  
</html>
```

4.2: Output Screens:





TimeTable Management System

localhost/TTMS/files/addteachers.php

ADD FACULTY ADD SUBJECTS ADD CLASSROOMS ALLOTMENT GENERATE TIMETABLE LOGOUT

ADD FACULTY

Faculty's Information

Faculty No	Name	Alias	Designation	Contact No.	Email ID	Action
T001	Meghana	M	Professor	12345678	cbd@gmail.com	Delete
T002	Prakash	P	Professor	12345678	cbd@gmail.com	Delete
T003	Ritu	R	Professor	12345678	cbd@gmail.com	Delete
T004	Tej	T	Professor	12345678	cbd@gmail.com	Delete
T005	Jahnavi	J	Associate Professor	12345678	cbd@gmail.com	Delete
T006	Charan	C	Associate Professor	12345678	cbd@gmail.com	Delete
T007	Chowdary	C	Associate Professor	12345678	cbd@gmail.com	Delete

Faculty TimeTable Management

localhost/TTMS/files/addsubjects.php

ADD FACULTY ADD SUBJECTS ADD CLASSROOMS ALLOTMENT GENERATE TIMETABLE LOGOUT

ADD SUBJECT

Subject's Information

Code	Title	Subject Type	Course	Department	Action
CI203	Object Oriented Programming	THEORY	3	Computational Intelligence. Dept.	Delete
CI206	Logic Theory & Computer Organisation	THEORY	3	Computational Intelligence. Dept.	Delete
CI207	Data Structures & Algorithm	THEORY	3	Computational Intelligence. Dept.	Delete
CI211	Electronic Devices & Circuits	THEORY	3	Computational Intelligence. Dept.	Delete
CI261	Discrete Mathematics	THEORY	3	Computational Intelligence. Dept.	Delete
CI292	Data Structures Lab	LAB	3	Computational Intelligence. Dept.	Delete
CI293	Programming Lab	LAB	3	Computational Intelligence. Dept.	Delete

localhost/TTMS/files/addsubjects.php

TimeTable Management System

localhost/TTMS/files/addclassrooms.php

ADD FACULTY ADD SUBJECTS ADD CLASSROOMS ALLOTMENT GENERATE TIMETABLE LOGOUT

ADD CLASSROOM

ADDED CLASSROOMS

Room No.	Action
4213	Delete
4212	Delete
4211	Delete
4114	Delete

Faculty TimeTable Management

localhost/TTMS/files/allotsubjects.php

ADD FACULTY ADD SUBJECTS ADD CLASSROOMS ALLOTMENT GENERATE TIMETABLE LOGOUT

THEORY COURSES
PRACTICAL COURSES
CLASSROOMS

Select Faculty

Allot

THEORY COURSES ALLOTMENT

Subject Code	Subject Title	Faculty No	Teacher's Name	Action
CI445	Network Security	T012	Tharun	Delete
CI451	Computer Network Design	T003	Ritu	Delete
CI431	Internet Tools	T005	Jahnavi	Delete
CI406	Compiler Design	T003	Ritu	Delete

localhost/TTMS/files/allotsubjects.php

TimeTable Management System

localhost/TMS/files/allotpracticals.php

ADD FACULTY ADD SUBJECTS ADD CLASSROOMS **ALLOTMENT** GENERATE TIMETABLE LOGOUT

THEORY COURSES
PRACTICAL COURSES
CLASSROOMS

Select Subject

Select Teacher

Select Teacher

Select Teacher

Allot

PRACTICAL COURSES ALLOTMENT

Subject Code	Subject Title	Faculty No	Teacher's Name	Faculty No	Teacher's Name	Faculty No	Teacher's Name	Action
CI494	Embedded Systems Lab	T008	Pathipati	T001	Meghana	T004	Tej	Delete
CI493	Networking Lab	T002	Prakash	T007	Chowdary	T011	Vangara	Delete
CI994	Minor Project	T005	Jahnavi	T007	Chowdary	T003	Ritu	Delete

localhost/TMS/files/allotpracticals.php

TimeTable Management System

localhost / 127.0.0.1 / tms / clas: x +

localhost/TMS/files/allotclasses.php

ADD FACULTY ADD SUBJECTS ADD CLASSROOMS **ALLOTMENT** GENERATE TIMETABLE LOGOUT

THEORY COURSES
PRACTICAL COURSES
CLASSROOMS

Select Classroom

Allot

CLASSROOMS ALLOTMENT

Classroom	Alloted To	Action
4213	CSE-AIML	Delete
4212	BTech-AIML	Delete
4211	AI & DS	Delete
4114	BTech-AIML	Delete

localhost/TMS/files/allotclasses.php

TimeTable Management System

localhost/TTMS/files/generatetimetable.php

ADD FACULTY ADD SUBJECTS ADD CLASSROOMS ALLOTMENT GENERATE TIMETABLE LOGOUT

GENERATE

Select Faculty

- Select Faculty
- Koushik
- Maharushi
- Ravirala
- Sreeja
- Vangara
- Tharun
- Chowdary
- Pathipati
- Vennela
- Satla
- Charan
- Jahnvi
- Tej
- Prakash
- Ritu
- Meghana
- Dr. P. Hari Krishna

WEEKDAYS	9:20-10:20	10:20-11:20	11:20-12:30	12:30-01:30	01:30-02:30	02:30-03:30

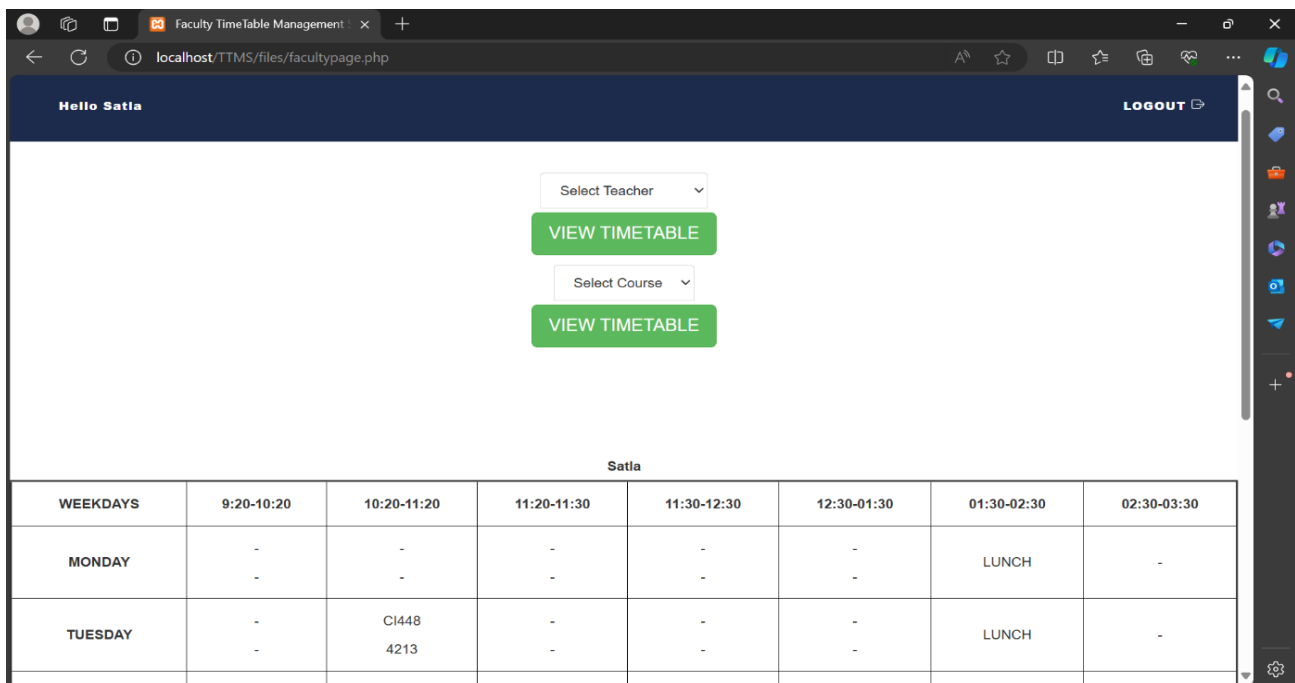
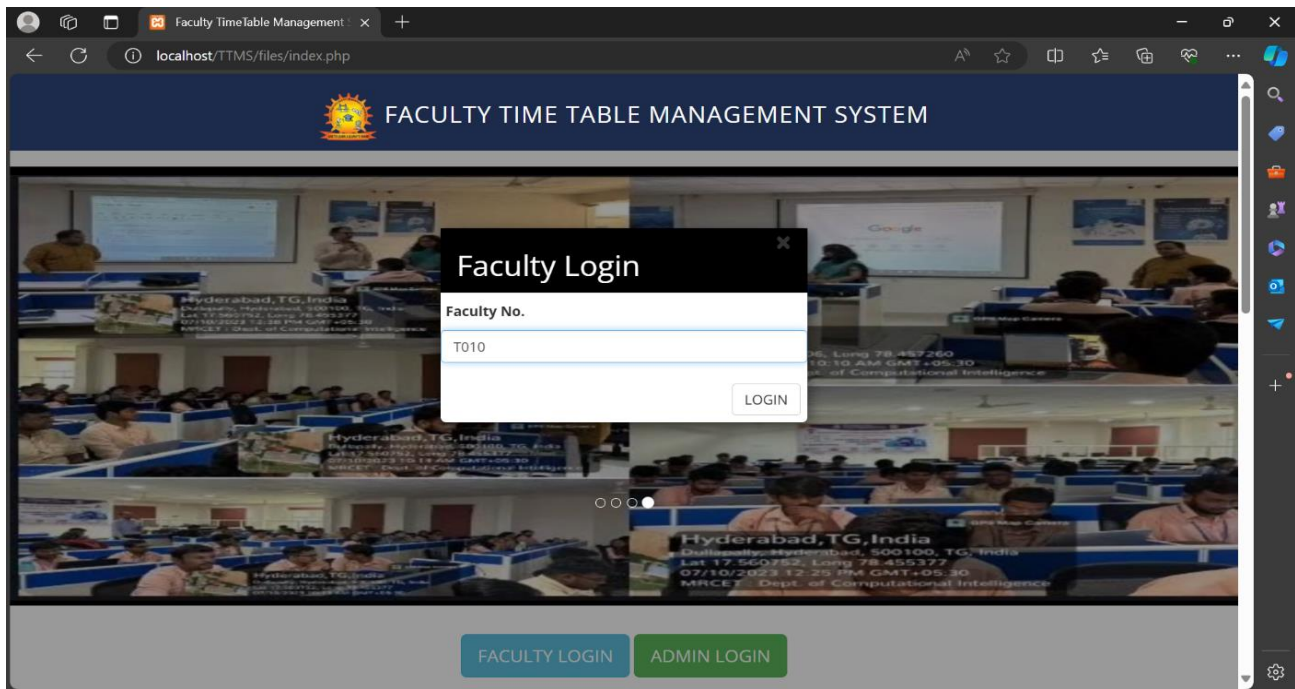
TimeTable Management System

localhost/TTMS/files/generatetimetable.php

ADD FACULTY ADD SUBJECTS ADD CLASSROOMS ALLOTMENT GENERATE TIMETABLE LOGOUT

Vangara

WEEKDAYS	9:20-10:20	10:20-11:20	11:20-11:30	11:30-12:30	12:30-01:30	01:30-02:30	02:30-03:30
MONDAY	-	CI309 4211	-	-	-	LUNCH	-
TUESDAY	-	-	-	-	-	LUNCH	CI493
WEDNESDAY	CI309 4211	-	-	-	-	LUNCH	-
THURSDAY	-	-	CI309 4211	-	-	LUNCH	CI493
FRIDAY	-	-	CI309 4211	-	-	LUNCH	-
SATURDAY	-	-	-	-	-	LUNCH	-



4.3: Testing

Software testing is a critical element of software quality assurance and represents the ultimate review of specification, design and code generation.

CHAPTER 5

CONCLUSION & FUTURE SCOPE

5.1: Conclusion

The Faculty Time Table Management System (FTTMS) represents a transformative solution for academic scheduling, addressing the complex needs of modern educational institutions. By leveraging advanced technologies such as intuitive user interfaces, robust backend frameworks, efficient database management, and comprehensive data analytics, the FTTMS overcomes the limitations and inefficiencies of traditional manual scheduling methods. This system enhances flexibility, accuracy, and oversight in schedule management, providing significant benefits to faculty members, administrative staff, and department heads. Faculty can easily manage their schedules, administrative staff benefit from streamlined data management tools, and Heads of Departments can effectively monitor and allocate resources. The FTTMS ensures seamless integration with existing systems and supports data-driven decision-making through analysis of historical scheduling data. With its potential for future enhancements like mobile application development and machine learning integration, the FTTMS is poised to further advance academic operations. In conclusion, the FTTMS fosters a more organized, efficient, and effective educational environment, standing as an essential tool for improving scheduling practices and operational efficiency in academic institutions.

5.2: Future Scope

The future scope of the Faculty Time Table Management System (FTTMS) is vast and promising. Future enhancements could include the development of a mobile application, providing faculty and administrators with on-the-go access to schedules and management tools. Integrating machine learning algorithms could automate and optimize scheduling, predicting conflicts and suggesting the best possible allocations. Expanding the system's compatibility to integrate seamlessly with various Learning Management Systems (LMS) would synchronize class schedules, assignments, and grading, offering a unified platform for academic operations. Enhanced reporting and analytics capabilities could provide deeper insights into scheduling.

CHAPTER 6

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