"PARENT TEACHER PORTAL''

"A Transparent Communication between Parents and Teachers"

A Project Report Submitted in Partial Fulfilment of the Requirements to

Rajiv Gandhi University of Knowledge & Technologies

SRIKAKULAM

For The Award of Degree In

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

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3rd year B. Tech 2nd semester

Under the Esteemed Guidance of

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JULY 2023

Andhra Pradesh, India

CERTIFICATE

This is to certify that the mini project report titled "**PARENT TEACHER PORTAL**" was successfully completed by **G. Satish (S180116), T. Ramesh (S180523),G. Srivalli (S180427)** under the guidance of **Ms.J.VISHNU PRIYANKA** Asst. prof.

In partial fulfilment of the requirements for the Mini Project in Computer Science and Engineering of Rajiv Gandhi University of Knowledge & Technologies under my guidance and output of the work carried out is satisfactory.

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Project Internal Guide,
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Mr. N. SESHA KUMAR, Asst.prof

Head of the Department,
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BONAFIDE CERTIFICATE

Certified that this project work titled **"Parent Teacher Portal"** is the Bonafide work of **G.satish (s180116), T.Ramesh (s180523) and G.Srivalli (s180427),** who carried out the work under my supervision, and submitted in partial fulfilment of the requirements for the award of the degree, BACHELOR OF TECHNOLOGY, during the year 2022 – 2023.

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DECLARATION

We declared that this thesis work titled "**Parent Teacher Portal**" is carried out by me during the year 2022-2023 in partial fulfilment of the requirements for the Mini Project in **Computer Science and Engineering.**

We further declare that this dissertation has not been submitted elsewhere for any Degree. The matter embodied in this dissertation report has not been submitted elsewhere for any other degree. Furthermore, the technical details furnished in various chapters of this thesis are purely relevant to the above project and there is no deviation from the theoretical point of view for design, development and implementation.

G. Satish -S180116

T. Ramesh -S180523

G. Srivalli -S180427

ACKNOWLEDGEMENT

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We wish to extend our sincere thanks to Mr.N.SESHA KUMAR Head of the Computer Science and Engineering Department, for his constant encouragement throughout the project.

We are also grateful to other members of the department without their support our work would have not been carried out so successfully.

I thank one and all who have rendered help to me directly or indirectly in the completion of my thesis work.

Project Associate

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ABSTRACT

The Parent-Teacher Portal is a web-based platform that facilitates effective communication and collaboration between parents and teachers. This portal provides a range of features such as student feedback submission, college premises tracking, leave request management, and access to educational resources. The system aims to improve educational outcomes and student success by enhancing collaboration, transparency, and parental involvement. The implementation of HTML, CSS, JavaScript, PHP and MySQL enables seamless functionality and secure data management. It was associated with this project include parent-teacher communication, student feedback, college premises tracking, leave request management, collaboration, transparency, and parental involvement.

Key words: HTML, CSS, Javascript, PHP, MySQL.

TABLE OF CONTENTS

Chapter-1
INTRODUCTION

1.1 Introduction

The Parent-Teacher Portal project aims to transform the way parents and teachers communicate and collaborate in the realm of education. By introducing innovative features such as a student feedback system, student college premises tracking system, and student leave request system, the project seeks to establish a direct and transparent line of communication between these key stakeholders.

The project aims to enhance parental involvement, promote collaboration, and ensure the holistic development of students.Through this initiative, the project strives to optimize communication processes, provide timely updates and feedback, and establish a user-friendly interface that empowers parents and teachers to work together towards the educational success of each student.

1.2 Problem Statement

The existing parent-teacher communication and management system lacks efficient coordination and transparency between parents, teachers, and students. The current challenges faced by the educational institution include:

Inefficient Communication: The lack of a centralized platform for communication and coordination between parents and teachers leads to delays and miscommunication regarding important dates, events, and academic updates.

Limited Student Monitoring: There is no systematic way to track and monitor student progress, attendance, assignments, and grades, making it challenging for parents and teachers to have an accurate overview of each student's performance.

Lack of Transparent Feedback Mechanism: The absence of a platform for parents to provide feedback on their child's progress, teacher interactions, and overall school experience hinders the improvement of educational practices and parent engagement.

Fragmented Notifications: Important notifications, updates, and reminders are dispersed through various channels, leading to missed communications and information overload.

1.3 Objective

- Enhance communication between parents and teachers.

- Increase parental involvement in their child's education.
- Foster collaboration between parents and teachers.
- Improve overall educational outcomes.
- Promote student safety through real-time tracking.

1.4 Goals

- Communication between parents and teachers.
- Improve educational outcomes and student success.
- Ensure students safety and provide real time tracking with in college premises.

1.5 Scope

The scope of the Parent-Teacher Portal project includes developing a web-based platform with features such as student feedback, college premises tracking, and leave request systems. The project encompasses, integrating with existing school systems, ensuring data security, providing training and support, and maintaining the portal's functionality. The primary objective is to enhance communication, streamline administrative processes, and improve the overall efficiency and effectiveness of parental involvement in their child's education.

1.6 Applications

What the users can do in Parent teacher portal:

- Direct communication and messaging between parents and teachers.
- Submission of student feedback by teachers to share with parents.
- Student College premises detection and email notifications sent to parents on student absences.
- Submission and approval of student leave requests

1.7 Limitations

The project has limitations in terms of lacking SMS notifications for attendance and feedback and the absence of responsive design, potentially affecting user experience on different devices**.**

Chapter-2

LITERATURE SURVEY

2.1 Collect Information

We have taken the information from the other sources like academic sources, research papers, and industry publications related to parent-teacher communication, and similar Projects.

2.2 Study

The collected information was studied and analysed to identify best practices and existing solutions in parent-teacher communication. Key factors such as communication methods, technological advancements, user experiences, and challenges were examined to inform the project's development and implementation.

2.3 Benefits

The literature survey highlighted several benefits of effective parent-teacher communication, including improved student outcomes, increased parental involvement, enhanced collaboration, and greater satisfaction among parents and teachers. It also identified how technology-based solutions, such as the parent-teacher portal, can facilitate seamless communication and streamline administrative processes.

2.4 Summary

The literature survey provided valuable insights into the importance of parent teacher communication, the impact of technology on educational practices, and the potential benefits of implementing a parent-teacher portal. The findings from the survey informed the project's objectives, scope, and features, guiding the development process to address the identified needs and challenges in parent-teacher communication.

Chapter-3

SYSTEM ANALYSIS

3.1 Existing System

The existing system for parent-teacher communication relies on in-person meetings, phone calls, and paper-based communication. It involves manual processes for tracking attendance and managing leave requests. However, this system suffers from limitations such as communication barriers, lack of timely feedback, limited transparency and difficulty in collaboration.

3.2 Disadvantages

- Inefficiency and time-consuming processes.
- Limited accessibility to real-time updates.
- Communication barriers and miscommunication.
- Administrative inefficiencies and delays.
- Lack of timely feedback and support.
- Limited transparency in sharing information.
- Difficulty in collaboration between parents and teachers.

3.3 Proposed System

The proposed Parent-Teacher Portal aims to improve communication and transparency between parents and teachers. It includes features like student feedback submission, student college premises tracking, direct interaction ,leave request management, user friendly interface to access sources and resources. This system makes communication easier, helps parents and teachers work together and simplifies administrative processes for better student outcomes and increased parental involvement.

3.4 Advantages

- Enhanced Collaboration: The Parent-Teacher Portal facilitates improved collaboration between parents and teachers, allowing for seamless communication, information sharing, and joint decision-making to support the student's educational journey effectively.

- Accessible Feedback Submission: Parents can conveniently provide feedback on their child's academic progress, behaviour, and overall experience through the user-friendly portal interface, promoting open and constructive communication with teachers.

- Real-Time Student Tracking: The portal enables real-time tracking of students within college premises, providing parents with timely updates on their child's presence, ensuring their safety, and offering peace of mind.
- Efficient Leave Request Management: Parents can easily submit leave requests for their child and access their leave request status through the portal using this Leave Request Management.
- User-Friendly Interface: The portal offers a user-friendly interface with intuitive navigation, making it easy for parents and teachers to interact with the system and access relevant information, fostering a positive user experience.
- Increased Parental Involvement: By providing a platform for direct communication, feedback submission, and involvement in administrative processes, the portal encourages and facilitates increased parental involvement in their child's education, creating a stronger partnership between parents and teachers.

3.5 System Requirements

Software Requirements

- Operating System: Windows 10 or Mac OS X 10.15 or higher.
- Web Browser: Chrome, Firefox, or Safari.
- Database: MySQL or SQL Server.
- Programming Languages: PHP, JavaScript, HTML, and CSS
- Content Management System: Word Press, Microsoft office.

Hardware Requirements

- Processor: Intel Core i3 or higher.
- Memory (RAM): 4 GB or higher.
- Storage: 100 GB or higher.
- Display: 14-inch or higher with a minimum resolution of 1024x768.
- Internet connection: High-speed broadband with a minimum speed of 2 Mbps.

Chapter-4

SYSTEM DESGIN

4.1 Design of the System

The design of the Parent-Teacher Portal system involves establishing the architecture, layout and components necessary for its functionality. This section outlines the key aspects of the system design:

User Interface Design: The user interface (UI) design focuses on creating a visually appealing and intuitive interface for parents and teachers. It involves designing the layout, navigation menus, buttons, forms and overall user interaction elements to ensure a user-friendly and engaging experience.

Database Design: The system requires a well-structured database to store and manage data efficiently. The database design involves determining the database schema, tables, relationships, and data fields necessary to store information such as student details, teacher details, attendance data, student feedbacks and leave requests.

Communication Module Design: The communication module enables direct messaging and interaction between parents and teachers. It involves designing the messaging interface, notification system, and ensuring secure transmission of messages and data between users.

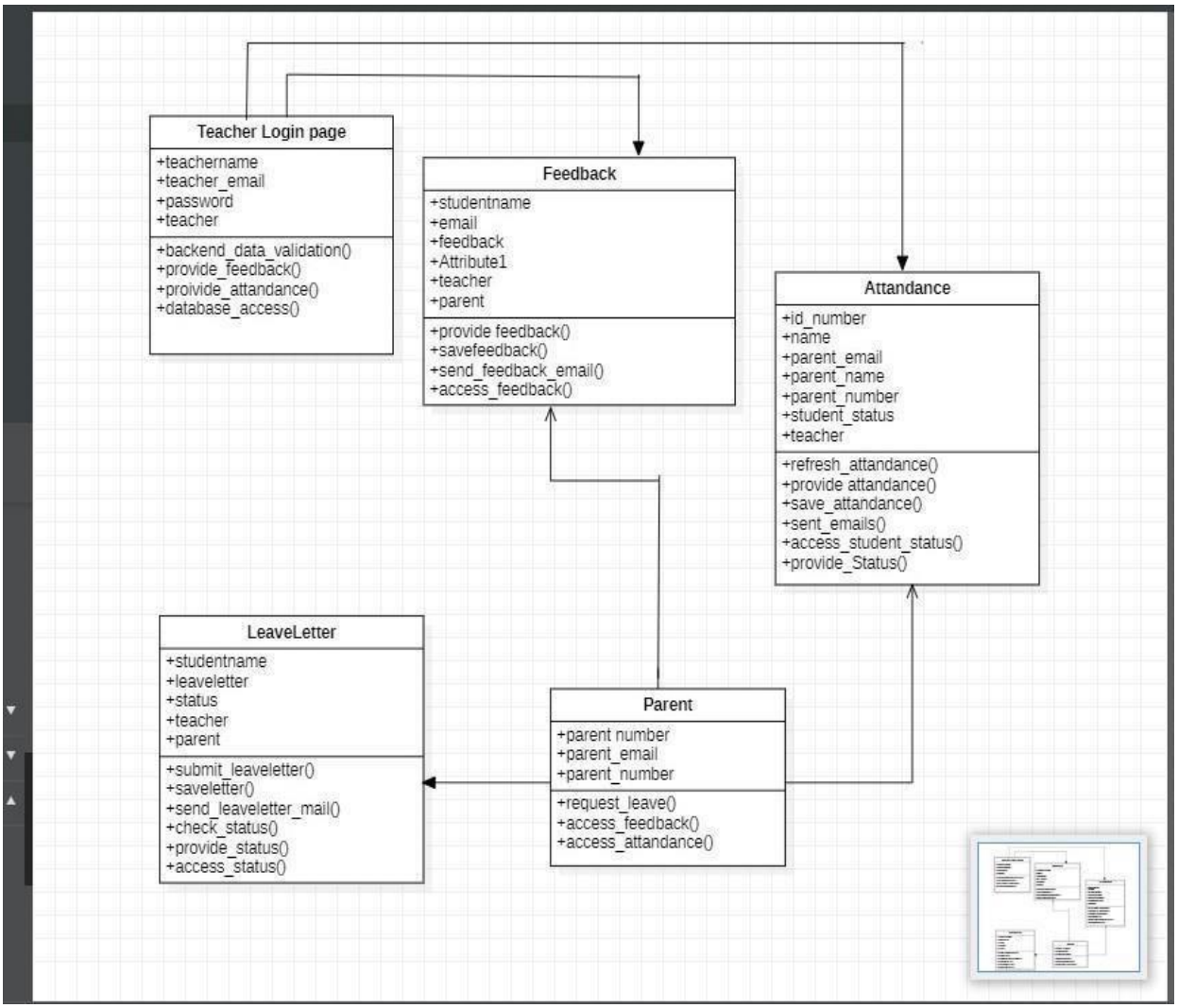
Student College Premises Tracking Design: The student tracking module is responsible for storing student presence in college premises and sent mails to the parents of the absent students. It involves designing interface, integrating with college premises attendance database systems, and ensuring real-time updates for parents and teachers.

Feedback Submission Design: The feedback submission module allows teachers to provide feedback on their child's academic progress and other relevant aspects day to day. It includes designing the feedback form, validation checks, feedback emails sent to parents and ensuring seamless submission and storage of feedback data.

Leave Request Management Design: The leave request module enables parents to submit leave requests for their child. It involves designing a form for leave request submission, integration with the leave request database table for student validation, and approval of leaves by teachers and submit the status in the portal.

4.1.1 Class Diagram

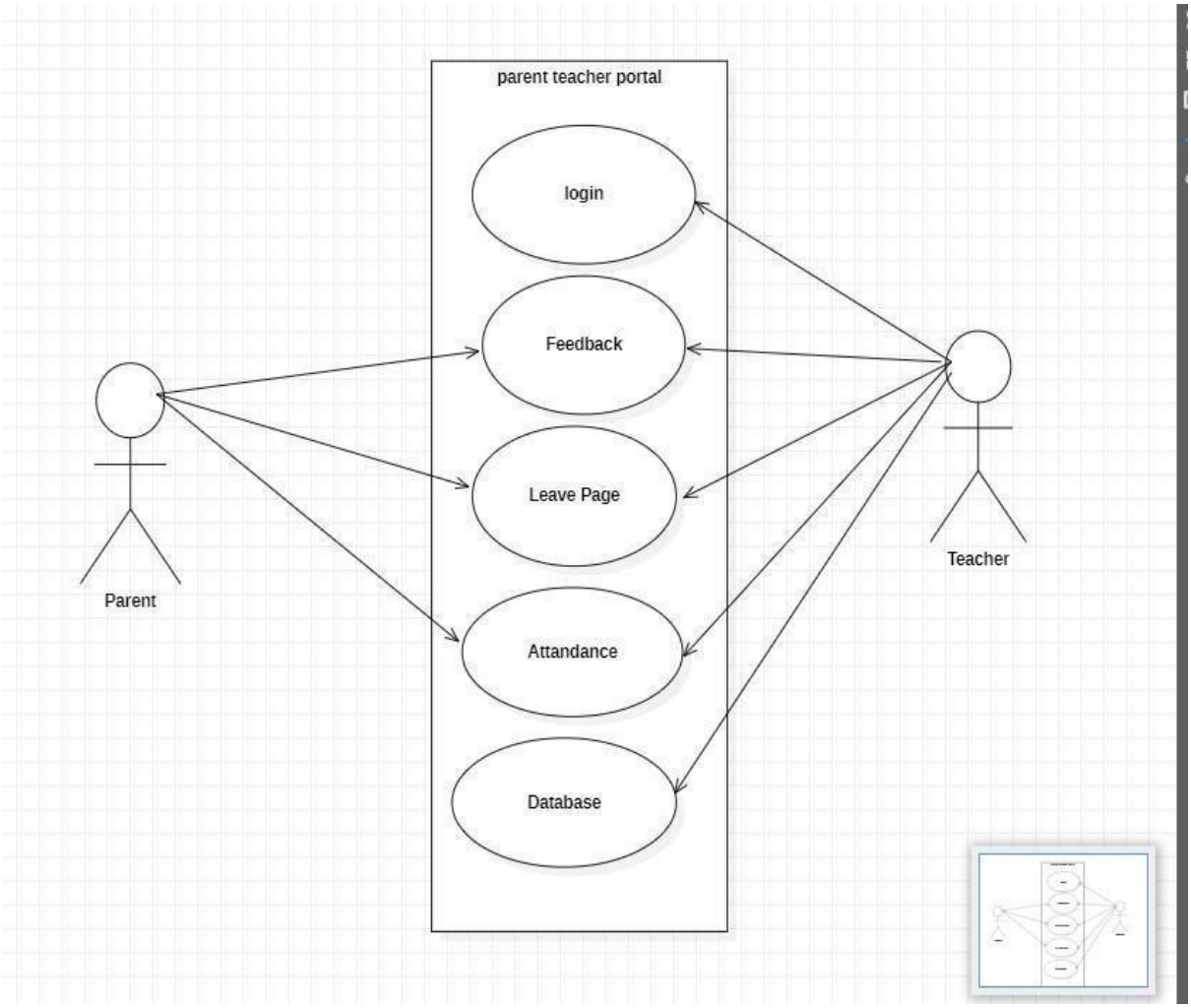
The class diagram for our project, the Parent-Teacher Portal, depicts the essential classes and their relationships. It includes the Parent class, which represents the parents using the portal, and the Teacher login page class, representing the teachers to login to this portal. Feedback class where teacher give feedbacks to the students, Attendance class where teacher login using the login class and provide student college premises attendance and Leave letter class where parents directly request their child leave. The class diagram provides a high-level view of the system's structure, facilitating understanding and guiding the implementation of the Parent-Teacher Portal.



4.1.2 Use Case Diagram

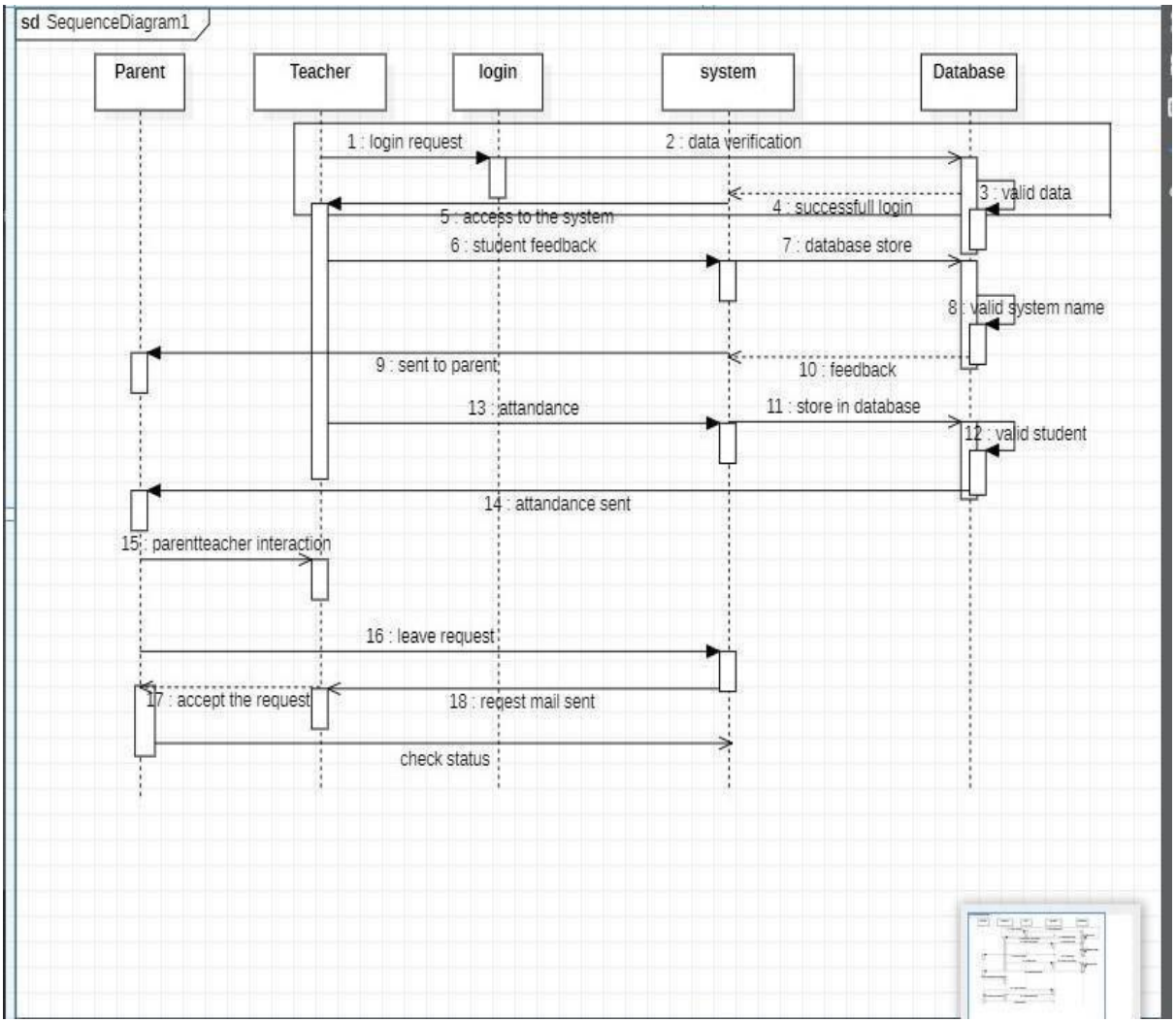
The use case diagram for the Parent-Teacher Portal project showcases the primary interactions and functionalities of the system. It highlights the actions that parents and teachers can perform, such as logging in, viewing attendance, exchanging messages, submitting feedback, and managing leave requests. The diagram also represents the system's role in managing parent and teacher

accounts, facilitating communication, and ensuring smooth operation of the portal. It provides a concise visual representation of the core use cases and their relationships within the Parent-Teacher Portal system.



4.1.3 Sequence Diagram

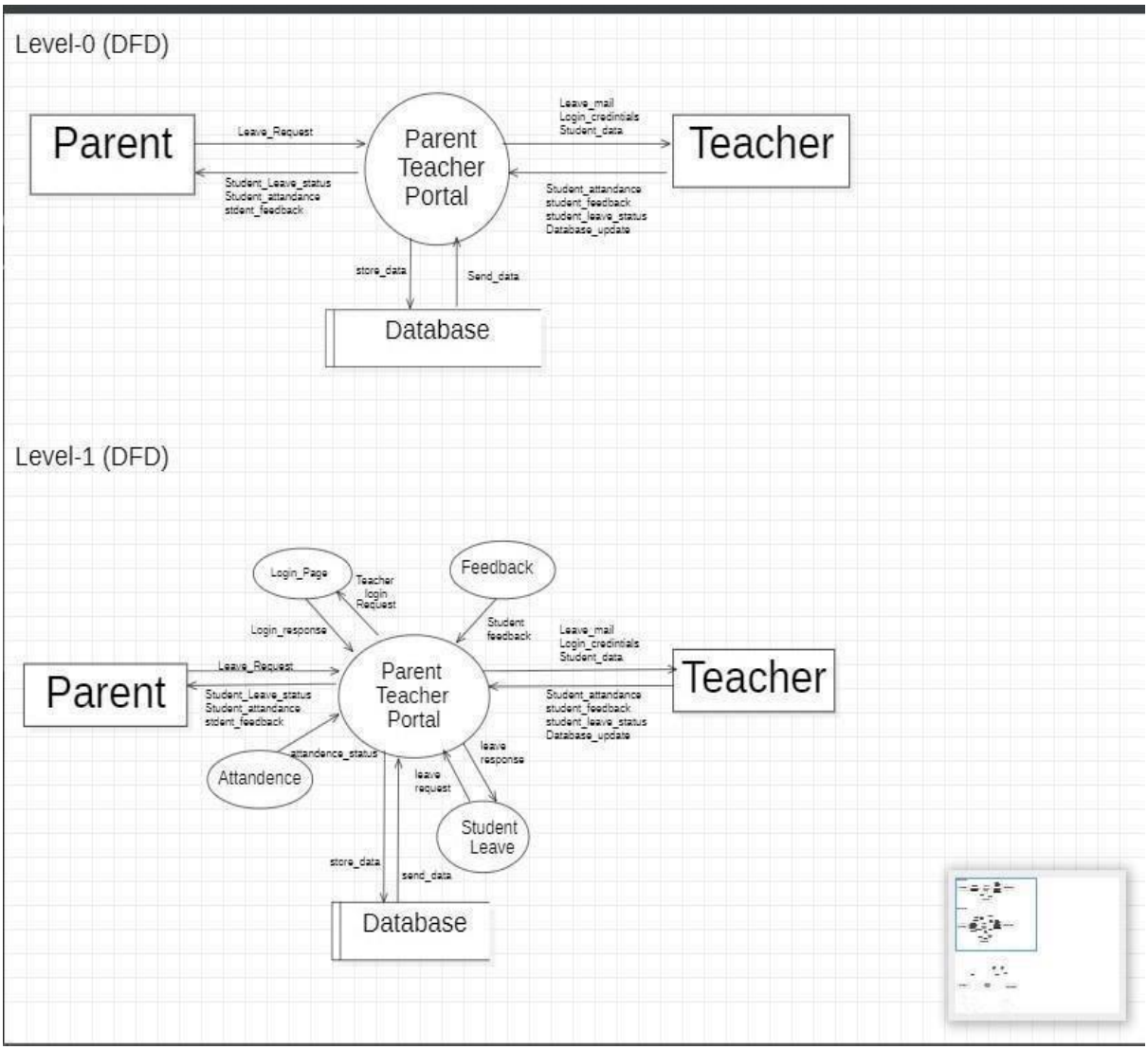
A sequence diagram for the Parent-Teacher Portal project visually represents the interactions and flow of events between parents, teachers, and the system. It illustrates the order and timing of messages exchanged, showcasing the dynamic behaviour of the system. By providing a concise overview of the interaction sequences, the sequence diagram helps to analyze the system's behaviour, identify potential issues, and ensure the smooth execution of actions within the Parent-Teacher Portal.



4.1.4 DFD Diagram

The Data Flow Diagram (DFD) for the Parent-Teacher Portal provides a clear representation of the flow of data within the system. It depicts the processes involved, such as sending messages, submitting feedback, and managing leave requests. It identifies the data stores, such as student records and feedback archives, and showcases the data flows between parents, teachers, and the system. By presenting a comprehensive view of data movement, the DFD helps identify areas for optimization, dependencies, and enhances the understanding of the system's data architecture. It serves as a valuable tool for system design, development, and improvement, ensuring efficient communication and effective data management in the Parent-Teacher Portal project.

Parent Teacher Portal



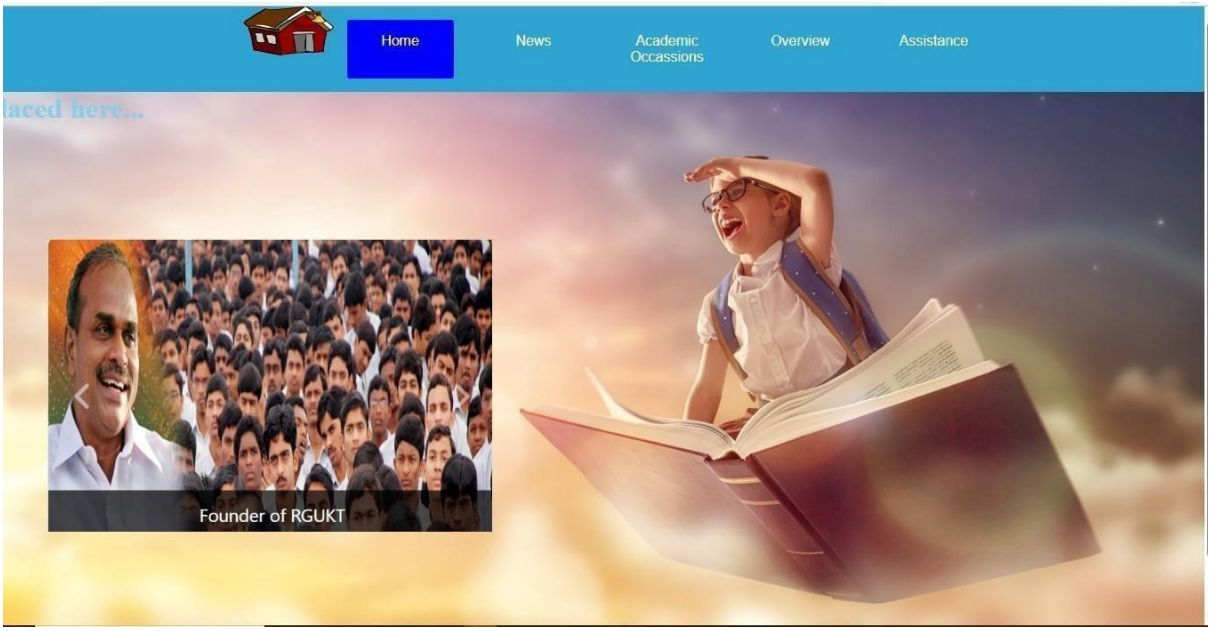
Chapter-5

SYSTEM IMPLEMENTATION

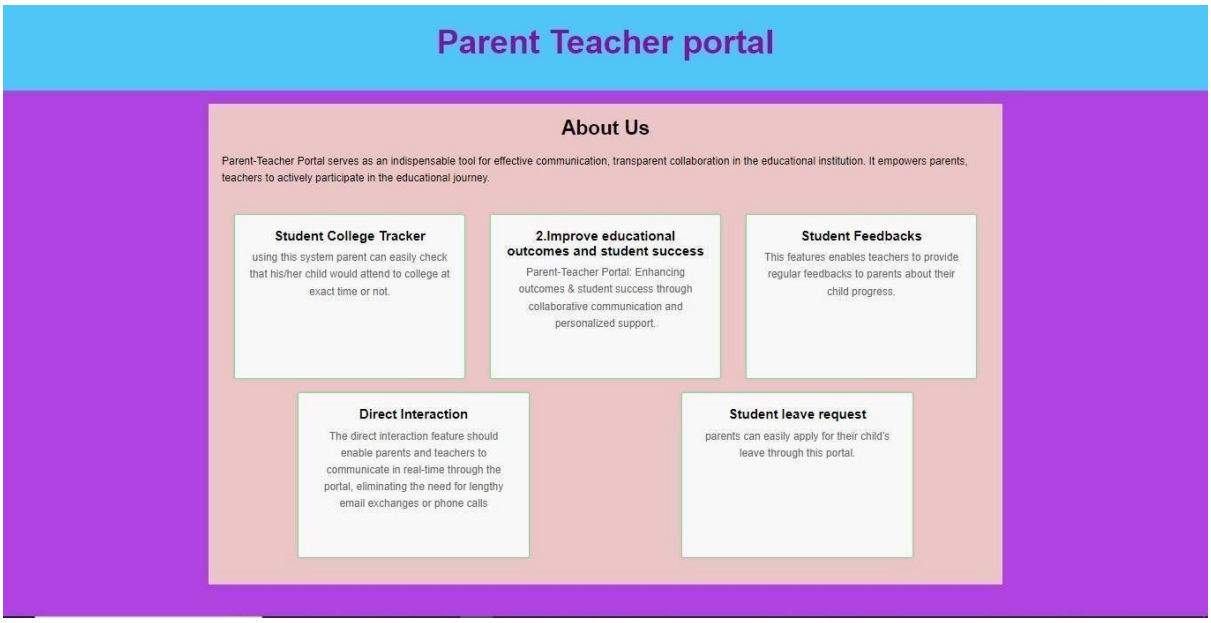
5.1 Parent Teacher Portal web application

The implementation of the Parent-Teacher Portal involves using HTML, CSS, and JavaScript for the frontend, PHP and MySQL for the backend, and PHPMailer for secure email communication. These components work together to create a user-friendly interface, enable features such as feedback submission and leave requests, and ensure reliable communication between parents and teachers. The integration of these technologies establishes a comprehensive and efficient system for enhancing collaboration and transparency in the education process**.**

5.1.1 Home Page

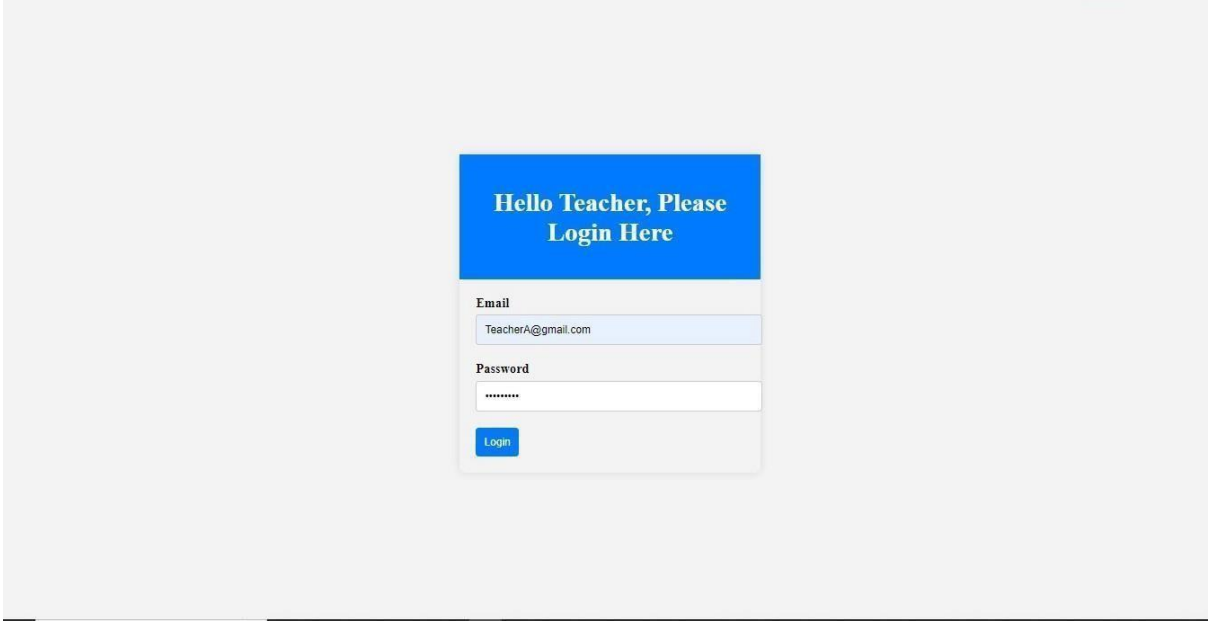


5.1.2 About Page



5.1.3 Assistance page

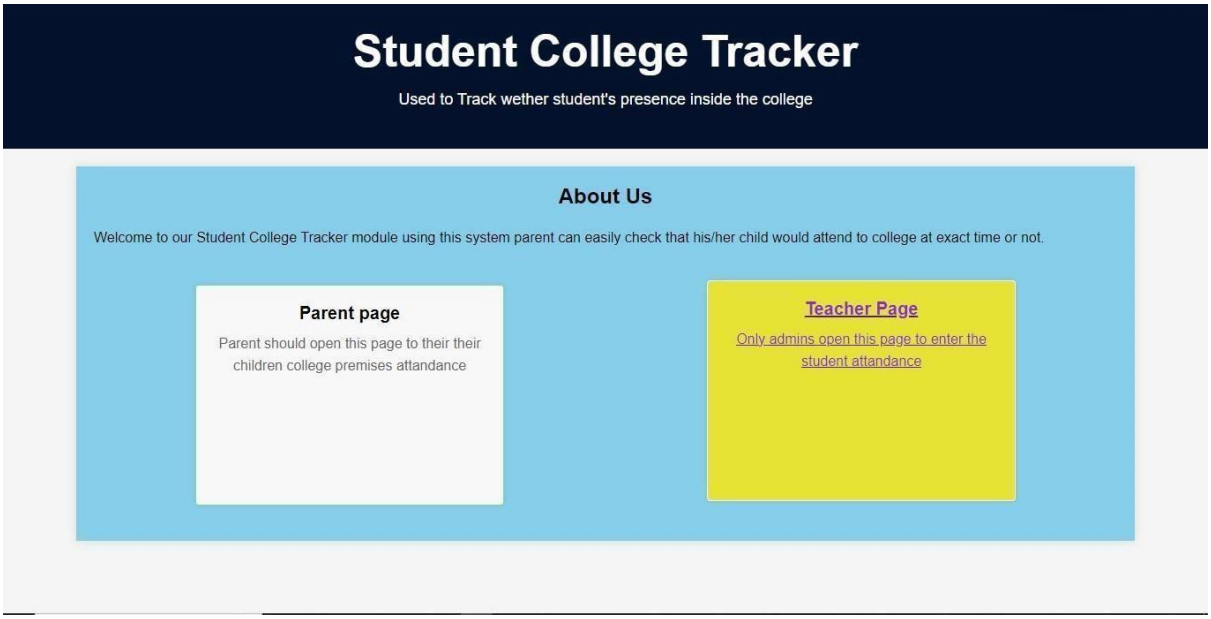
5.1.4 Teacher Login Page



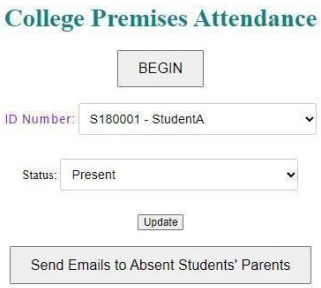
5.2 Student college Tracker

The attendance feature in the Parent-Teacher Portal enables real-time tracking of student presence within the college premises. It facilitates efficient communication between parents and teachers regarding student attendance status, fostering transparency and timely interventions.

5.2.1 Interface



5.2.2 Teacher Page



5.2.3 Parent Page

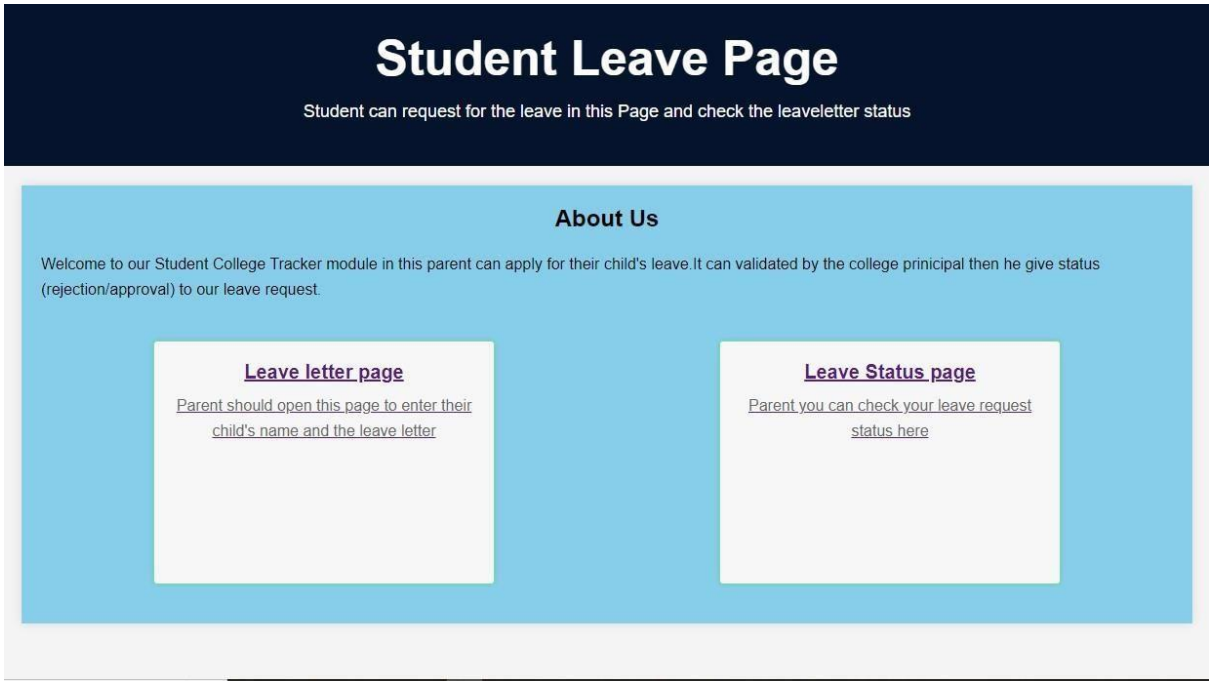
Absent Students

Name	Parent Name	Parent Email	Status
StudentB	StudentBparent	satishgudala5212@gmail.com	absent
StudentC	StudentCparent	cheggexpert5212@gmail.com	absent
StudentD	StudentDparent	sureshchegg5212@gmail.com	absent

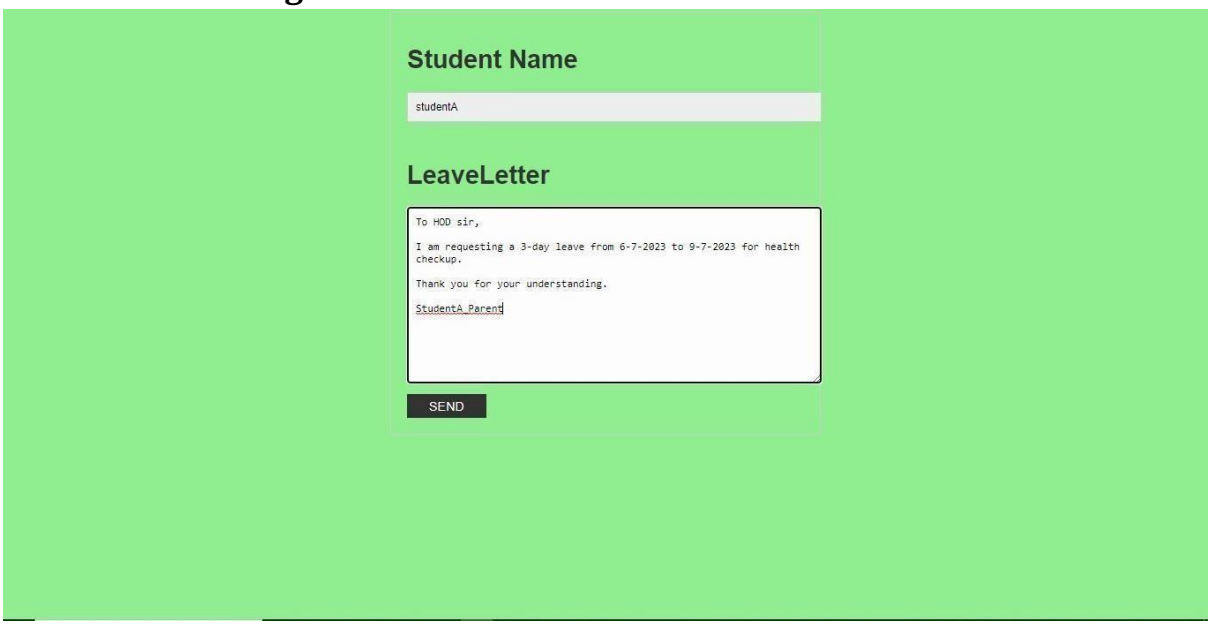
5.3 Leave Request Page

The Student Leave Request Page in the Parent-Teacher Portal allows students to submit leave requests for their absence from college. It provides a user-friendly interface where students can enter the necessary details, such as the reason for their leave and the desired duration. The page enables streamlined communication between students and teachers, ensuring that leave requests are properly documented and reviewed. This feature simplifies the leave management process, allowing teachers to efficiently handle and respond to student leave requests.

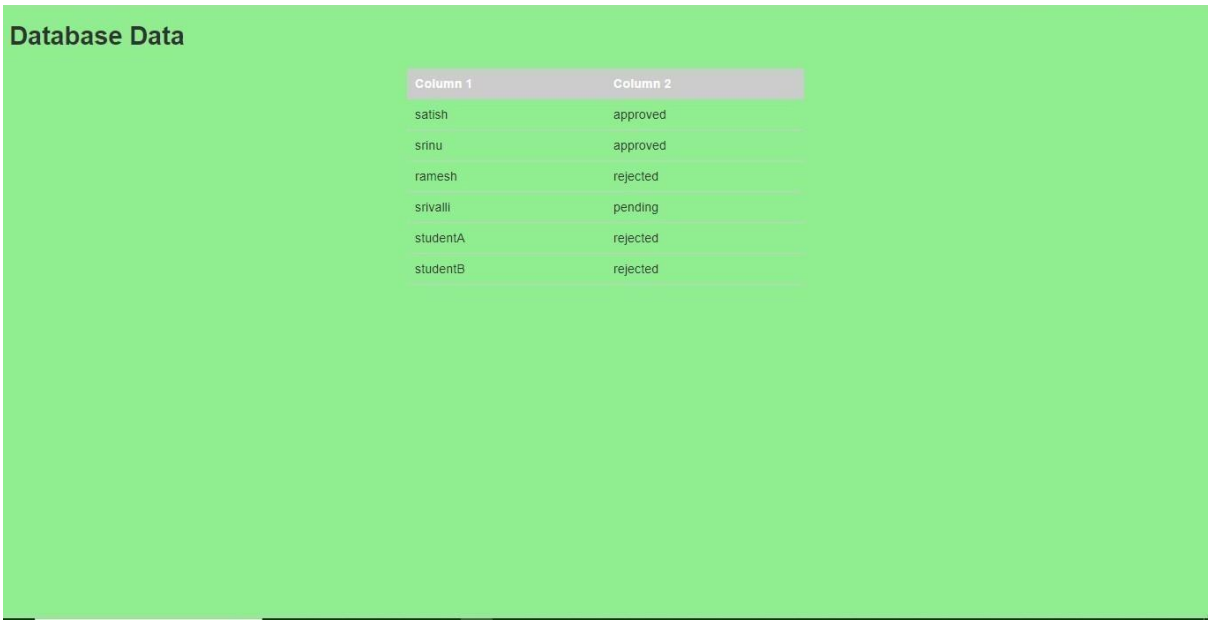
5.3.1 Interface



5.3.2 Leave Letter Page

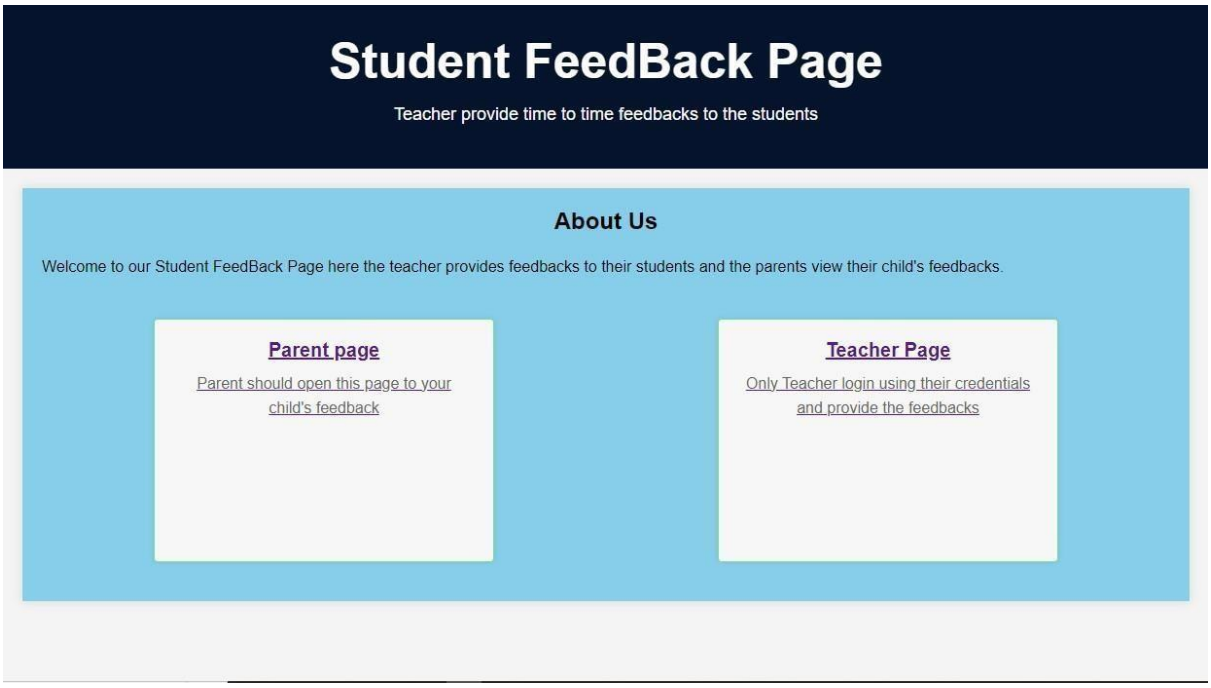


5.3.3 Leave Status Page

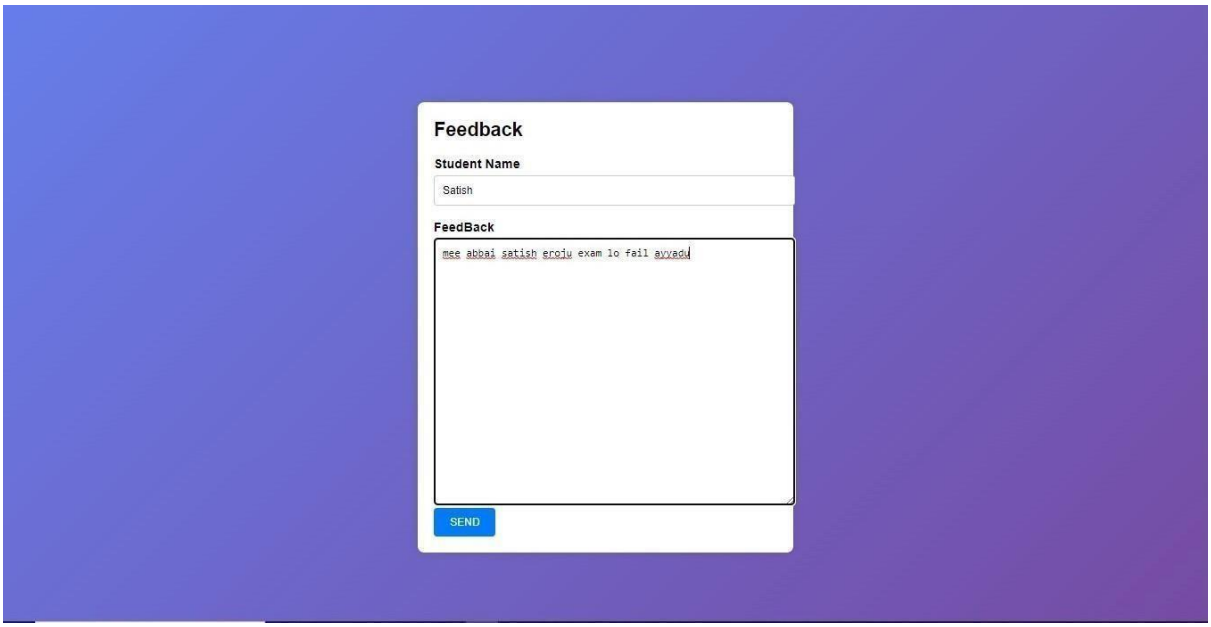


5.4 Feedback Page

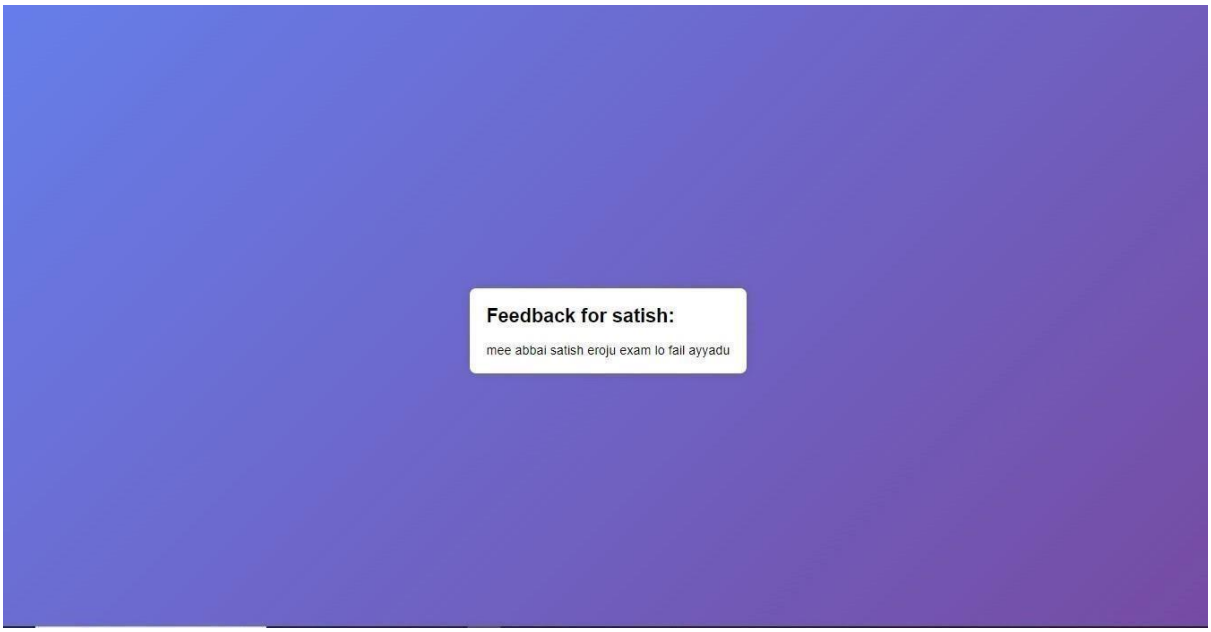
The Teacher Feedback Page allows teachers to provide valuable assessments and observations on student performance, behaviour, and progress. This promotes effective communication and collaboration between teachers and parents to support students' academic growth and development. **5.4.1 Interface**



5.4.2 Teacher Page



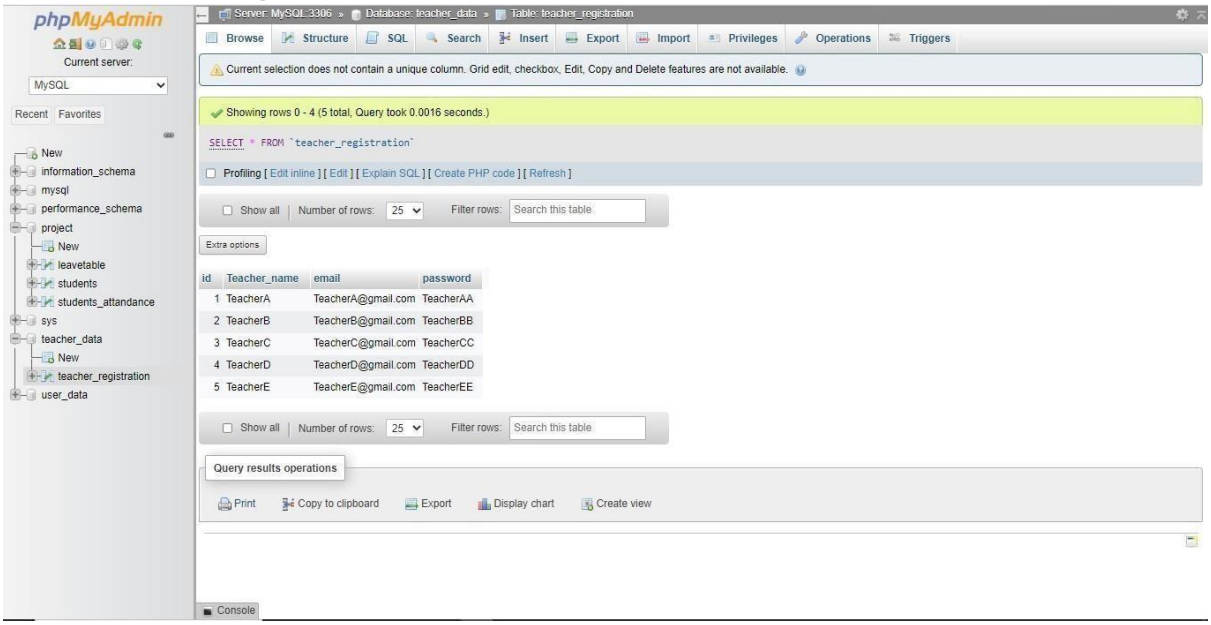
5.4.3 Parent Page



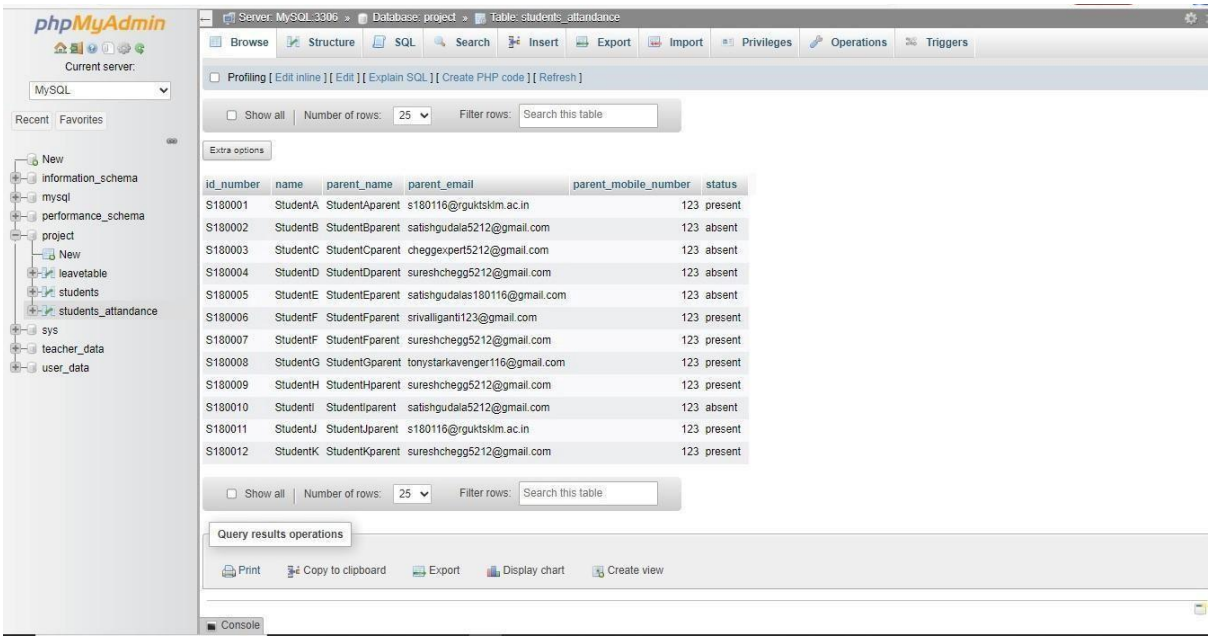
5.5 Backend Implementation (MySQL)

Backend pages in the Parent-Teacher Portal leverage the power of MySQL, a popular relational database management system. These pages facilitate data storage, retrieval, and manipulation, ensuring efficient and secure handling of information. By utilizing MySQL, the backend pages enable seamless integration with the database, allowing for dynamic content management, user authentication, and data-driven functionalities.

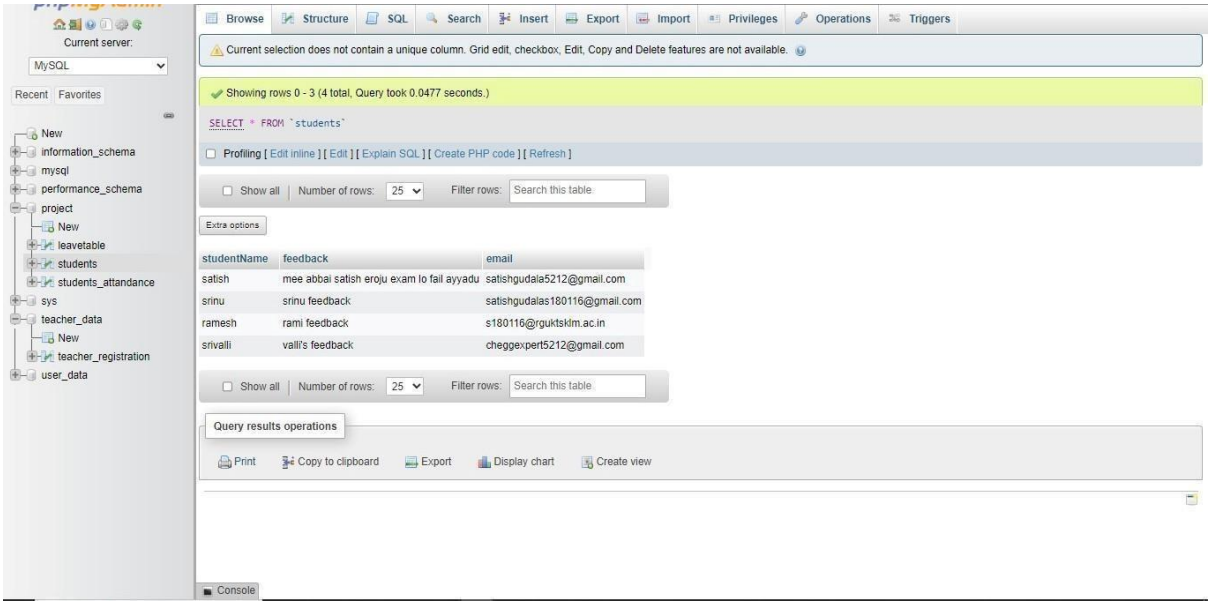
5. 5.1 Teacher Registration



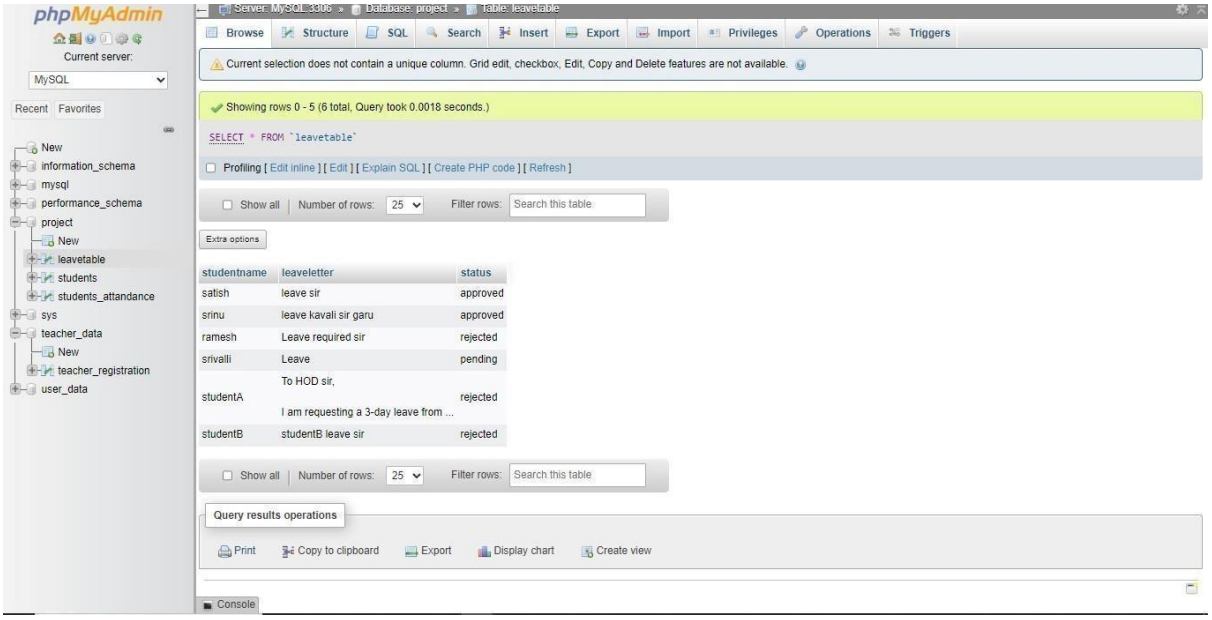
5. 5.2 Student Attendance



5. 5.3 Student Feedback



5. 5.4 Leave Table



Chapter-6

SOURCE CODE

6.1 Index.html

```
<html>
  <head>
    <title>PARENT-TEACHER-PORTAL</title>
    <link rel="stylesheet" href="style.css">
    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/@fortawesome/fontawesomefree@6.2.1/css/fontaweso
me.min.css">
    <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
    <script>
      $(document).ready(function(){
$("button").click(function(){
$("div").animate({              height:
'toggle'
        });
       });
      });
    </script>
  </head>
  <body>
    <div class="menu-bar">
      <ul>
        <img src="logo.gif" height="55px" width="102px" alt="Animated Logo">
        <li class="active">
          <a href='#'>Home</a>
          <div class="sub-menu-1">
            <ul>
```

```
                    <li><a href="#">Student-Details</a></li>
                    <li><a href="feedbackpage1.html">Student college tracker</a></li>
                    <li><a href="leavepage1.html">Leave Request Page</a></li>
                    <li><a href="feedbackreal1.html">Feedback Page</a></li>
                  </ul>
                </div>
              </li>
              <li><a href='#'>News</a></li>
              <li><a href='#'>Academic Occasions</a></li>
              <li><a href='aboutpage.html'>Overview</a></li>
              <li><a href='help.html'>Assistance</a></li>
            </ul>
        </div>
            <marquee width="1300px" direction="left" height="30px">
            <h1 style="color: skyblue; font-family: 'Times New Roman', Times, serif;">New
announcements will be placed here...</h1>
        </marquee>
        <div class="image-container">
            <img id="image" src="pic5.png" alt="Image">
        </div>
            <br>
        <br>       <script>          var
images = [
"pic1.png",
              "pic2.png",
              "pic3.png",
              "pic4.png",
              "pic5.png",
              "pic6.png",
```

```
            "pic7.png",
            "pic8.png",
            "pic9.png"
        ];
            var currentIndex = 0;
        var imageElement = document.getElementById("image");
            function changeImage() {              currentIndex =
(currentIndex + 1) % images.length;               imageElement.src
= images[currentIndex];
        }
            changeImage();
setInterval(changeImage, 3000);
      </script>
   </body>
</html>
```

6.2 aboutpage.html

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta http-equiv="X-UA-Compatible" content="IE=edge">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Online Farm Product Delivery</title>
 </head>
<body>
 <header>
  <h1>Parent Teacher portal</h1>
```

```
  <p> </p>
 </header>
 <main>
  <h2>About Us</h2>
  <p>Parent-Teacher Portal serves as an indispensable tool for effective communication, transparent collaboration in the educational institution. It empowers parents, teachers to actively participate in the educational journey.
  </p>
  <div class="animated-cards">
   <div class="animated-card">
    <h3>Student College Tracker</h3>
    <p>using this system parent can easily check that his/her child would attend to college at exact time or not.</p>
   </div>
   <div class="animated-card">
    <h3>2.Improve educational outcomes and student success</h3>
    <p>Parent-Teacher Portal: Enhancing outcomes & student success through collaborative communication and personalized support.</p>
   </div>
   <div class="animated-card">
    <h3>Student Feedbacks</h3>
    <p>This features enables teachers to provide regular feedbacks to parents about their child progress.
    </p>
   </div>
   <div class="animated-card">
    <h3>Direct Interaction</h3>
    <p>The direct interaction feature should enable parents and teachers to communicate in real-time through the portal, eliminating the need for lengthy email exchanges or phone calls
    </p>
```

```
    </div>
    <div class="animated-card">
      <h3>Student leave request</h3>
      <p>parents can easily apply for their child’s leave through this portal. </p>
    </div>
  </div>
 </main>
 </body>
</html>
```

6.3 Feedbackpage1.html

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta http-equiv="X-UA-Compatible" content="IE=edge">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Parent-Teacher Portal</title>
 </head>
<body>
 <header>
  <h1>Student College Tracker</h1>
  <p>Used to Track wether student's presence inside the college </p>
 </header>
 <main>
  <h2>About Us</h2>
  <p>Welcome to our Student College Tracker module  using this system parent can easily check that his/her child would attend to college at exact time or not.</p>
  <div class="animated-cards">
    <div class="animated-card" >
```

```
      <a href="http://localhost/attandance/absent_students.php">
       <h3>Parent page </h3>
      <p>Parent should open this page to their their children college premises attandance
</p>
    </a>     </div>
    <div class="animated-card">
      <a href="http://localhost/attandance/login.html">  <h3>Teacher Page</h3>
      <p>Only admins open this page to enter the student attandance
         </p></a>
    </div>
      </div>
 </main></body>
</html>
```

6.4 feedbackreal1.html

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta http-equiv="X-UA-Compatible" content="IE=edge">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Parent-Teacher Portal</title>
 </head>
<body>
 <header>
  <h1>Student FeedBack Page</h1>
  <p>Teacher provide time to time feedbacks to the students </p>
 </header>
 <main>
```

```
  <h2>About Us</h2>
  <p>Welcome to our Student FeedBack Page here the teacher provides feedbacks to their students and the parents view their child's feedbacks. </p>
  <div class="animated-cards">
   <div class="animated-card" >
    <a href="http://localhost/feedback%20status/"><h3>Parent page </h3>
    <p>Parent should open this page to your child's feedback</p></a>
     </div>
   <div class="animated-card">
    <a href="http://localhost/student%20feedback%20page%20%20Copy/login.html"><h3>Teacher Page</h3>
    <p>Only Teacher login using their credentials and provide the feedbacks </p></a>
  </div>
    </div>
 </main>
</body>
</html>
```

6.5 Leavepage1.html

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta http-equiv="X-UA-Compatible" content="IE=edge">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Parent-Teacher Portal</title>
 </head>
<body>
 <header>
```

```
  <h1>Student Leave Page</h1>
  <p>Student can request for the leave in this Page and check the leaveletter status </p>
</header>
 <main>
  <h2>About Us</h2>
  <p>Welcome to our Student College Tracker module in this parent can apply for their child's leave.It can validated by the college prinicipal then he give status (rejection/approval) to our leave request.</p>
  <div class="animated-cards">
   <div class="animated-card" >
    <a href="http://localhost/leavepage/leaveindec.php">
    <h3>Leave letter page</h3>
    <p>Parent should open this page to enter their child's name and the leave letter </p></a>
     </div>
   <div class="animated-card">
    <a href="http://localhost/leavepage/statusdisplaypage.php">  <h3>Leave Status page</h3>
    <p>Parent you can check your leave request status here</p></a>
   </div>   </div> </main>
</body>
</html>
```

6.6 login.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Teacher Login Page</title>
  </head>
<body>
```

```
  <div class="container">
    <div class="card">
      <div class="card-header">
        <h1>Hello Teacher, Please Login Here</h1>
      </div>
      <div class="card-body">
        <form action="login.php" method="post">
          <div class="form-group">
            <label for="email">Email</label>
            <input type="email" id="email" class="form-control" name="email" />
          </div>
          <div class="form-group">
            <label for="password">Password</label>
            <input type="password" id="password" class="form-control" name="password"
/>
          </div>
          <input type="submit" class="btn-primary" value="Login" name="" />
        </form>
      </div>
    </div>
  </div>
</body>
</html>
```

6.7 absent_students.php

```
<?php
$servername = 'localhost';
$username = 'root';
$password = '';
```

```
$dbname = 'project';
$conn = new mysqli($servername, $username, $password, $dbname);
if ($conn->connect_error) {     die("Connection failed: " . $conn-
>connect_error);
}
// Retrieve absent students from the database
$sql = "SELECT name, parent_name, parent_email, status FROM students_attandance
WHERE status = 'absent'";
$result = $conn->query($sql);
?>
<!DOCTYPE html>
<html>
<head>
   <title>Absent Students</title>
   <style>         table {
width: 100%;
border- collapse:
collapse;
      }
            table, th, td {
border: 1px solid black;            padding:
5px;
      }
   </style>
</head>
<body>
   <h1>Absent Students</h1>
   <?php if ($result->num_rows > 0) : ?>
      <table>
```

```
        <tr>
          <th>Name</th>
          <th>Parent Name</th>
          <th>Parent Email</th>
          <th>Status</th>
        </tr>
        <?php while ($row = $result->fetch_assoc()) : ?>
          <tr>
            <td><?php echo $row['name']; ?></td>
            <td><?php echo $row['parent_name']; ?></td>
            <td><?php echo $row['parent_email']; ?></td>
            <td><?php echo $row['status']; ?></td>
          </tr>
        <?php endwhile; ?>
      </table>
    <?php else : ?>
      <p>No absent students found.</p>
    <?php endif; ?>
    <?php $conn->close(); ?>
</body>
</html>
```

6.8 Login.php

```
<?php
$email=$_POST['email'];
$password=$_POST['password'];
$con= new mysqli("localhost","root","","teacher_data"); if($con>connect_error){
die("failed to connect:".$con->connect_error);
```

```
}
else{
   $stmt=$con->prepare("select * from teacher_registration where email=?");      $stmt-
>bind_param("s",$email);
   $stmt->execute();
   $stmt_result=$stmt->get_result();     if($stmt_result-
>num_rows>0){          $data=$stmt_result->fetch_assoc();
          if($data['password']==$password){
header('location:http://localhost/attandance/update_status.html');
      }
      else{
         echo "<h2>invalid login</h2>";
      }
      }
   }
?>
```

6.9 update_status.html

```
<!DOCTYPE html>
<html>
<head>
   <title>Update Status</title>
</head>
<body>
   <h1 style="text-align: center; color: darkcyan;">College Premises Attendance</h1>
   <form action="execute_query.php" method="post" class="form-container">
      <input type="hidden" name="query" value="UPDATE students_attandance SET status =
'absent';">
      <button class="execute-button" type="submit">BEGIN</button>
   </form>
```

```
<form action="update_status.php" method="post" class="form-container">
    <div class="form-group">
        <label for="id_number" style="color: blueviolet;font-family: 'Lucida Sans';padding: auto;">ID Number:</label>
        <select name="id_number">
            <option value="S180001">S180001 - StudentA</option>
            <option value="S180002">S180002 - StudentB</option>
            <option value="S180003">S180003 - StudentC</option>
            <option value="S180004">S180004 - StudentD</option>
            <option value="S180005">S180005 - StudentE</option>
            <option value="S180006">S180006 - StudentF</option>
            <option value="S180007">S180007 - StudentF</option>
            <option value="S180008">S180008 - StudentG</option>
            <option value="S180009">S180009 - StudentF</option>
            <option value="S180010">S180010 - StudentI</option>
            <option value="S180011">S180011 - StudentJ</option>
            <option value="S180012">S180012 - Studentk</option>
        </select>
    </div>
    <div class="form-group">
        <label for="status">Status:</label>
        <select name="status">
            <option value="present">Present</option>
            <option value="absent">Absent</option>
        </select>
    </div>
    <input type="submit" value="Update">
</form>
<!-- Overall submit button -->
```

```
  <form action="send_emails.php" method="post" class="form-container">
    <input type="hidden" name="status" value="absent">
    <button class="execute-button" type="submit">Send Emails to Absent Students' Parents</button>
  </form>
</body>
</html>
```

6.10 send_mails.php

```
<?php  require
'phpmailer/src/Exception.php'; require
'phpmailer/src/PHPMailer.php'; require
'phpmailer/src/SMTP.php'; use
PHPMailer\PHPMailer\PHPMailer; use
PHPMailer\PHPMailer\Exception;
// Database connection settings
$servername = 'localhost';
$username = 'root'; $password
= '';
$dbname = 'project';
// Connect to the database
$conn = new mysqli($servername, $username, $password, $dbname);
if ($conn->connect_error) {     die("Connection failed: " . $conn-
>connect_error);
}
$status = $_POST["status"];
// Retrieve parent emails of absent students
$sql = "SELECT parent_email FROM students_attandance WHERE status = 'absent'";
$result = $conn->query($sql); if
($result->num_rows > 0) {
```

```
    $mail = new PHPMailer(true);
    $mail->isSMTP();
    $mail->Host = 'smtp.gmail.com';
    $mail->SMTPAuth = true;
    $mail->Username = 'satishgudala5212@gmail.com';
    $mail->Password = 'ygrvarwobzgitkdn';
    $mail->SMTPSecure = 'tls';
    $mail->Port = 587;
    $mail->SMTPDebug = 2;
    $mail->setFrom('satishgudala5212@gmail.com');
    while ($row = $result->fetch_assoc()) {
        $parentEmail = $row['parent_email'];
        $mail->addAddress($parentEmail);
    }
    $mail->isHTML(true);
    $mail->Subject = "Absence Warning: Your Child's Absence from College";
    $mail->Body = "I hope this email finds you well. I am writing to bring to your attention an
important matter regarding your child, who has been absent from college.";
    if ($mail->send()) {        echo "<script>alert('Emails sent successfully.');</script>";
    } else {
        echo "<script>alert('Failed to send emails.');</script>";
    }
} else {
    echo "<script>alert('No absent students found.');</script>";
}
// Close the database connection
$conn->close();
?>
```

6.11 Update_status.php

```
<?php  require
'phpmailer/src/Exception.php'; require
'phpmailer/src/PHPMailer.php'; require
'phpmailer/src/SMTP.php'; use
PHPMailer\PHPMailer\PHPMailer; use
PHPMailer\PHPMailer\Exception;
// Database connection settings
$servername = 'localhost';
$username = 'root';
$password = '';
$dbname = 'project';
// Connect to the database
$conn = new mysqli($servername, $username, $password, $dbname);
if ($conn->connect_error) {     die("Connection failed: " . $conn-
>connect_error);
}
$idNumber = $_POST["id_number"];
// Retrieve feedback and email from the database
// $studentName = $_POST['studentname'];
$sql = "SELECT parent_email FROM students_attandance WHERE id_number = '$idNumber'";
$result = $conn->query($sql);
// Check if the form is submitted   if
($_SERVER["REQUEST_METHOD"] === "POST") {
   // Retrieve the form data        $status
= $_POST["status"];
if($status=="absent"){     if
($result->num_rows > 0) {
       $row = $result->fetch_assoc();
```

```
    $studentEmail = $row['parent_email'];
   $mail = new PHPMailer(true);
    $mail->isSMTP();
   $mail->Host = 'smtp.gmail.com';
   $mail->SMTPAuth = true;
   $mail->Username = 'satishgudala5212@gmail.com';
   $mail->Password = 'ygrvarwobzgitkdn';
   $mail->SMTPSecure = 'tls'; // Use 'tls' instead of 'ssl'
   $mail->Port = 587; // Use port 587 for TLS
   $mail->SMTPDebug = 2; // Set to 0 for no debugging output
   $mail->setFrom('satishgudala5212@gmail.com');
   $mail->addAddress($studentEmail,'satish');
   $mail->isHTML(true);
   $mail->Subject = "Absence Warning: Your Child's Absence from College";
   $mail->Body = "I hope this email finds you well. I am writing to bring to your attention an
important matter regarding your child, who has been absent from college.";    $mail>send();
   }
   echo "<script>alert('Sent Successfully');</script>";
}
    $host = "localhost";   // Replace with your database host
   $username = "root";    // Replace with your database username
   $password = "";       // Replace with your database password
$database = "project"; // Replace with your database name
$conn = new mysqli($host, $username, $password, $database);    if
($conn->connect_error) {       die("Connection failed: " . $conn-
>connect_error);
   }
   // Update the status in the database
```

```
    $sql ="UPDATE students_attandance SET status = '$status' WHERE id_number =
'$idNumber'";     if ($conn->query($sql) === TRUE) {         echo "Status updated successfully.";
    } else {
        echo "Error updating status: " . $conn->error;
    }
    // Close the database connection
    $conn->close();
}
?>
```

6.12 execute_query.php

```
<?php
$query = $_POST['query'];
$servername = "localhost";
$username = "root";
$password = ""; $dbname
= "project";
try {
    $conn = new PDO("mysql:host=$servername;dbname=$dbname", $username, $password);
    $conn->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);
    $stmt         =         $conn->prepare($query);
$stmt>execute();    echo "SQL query executed
successfully.";
} catch (PDOException $e) {     echo "Error executing SQL query:
" . $e->getMessage();
}
$conn = null;
?>
```

6.13 index.html(feedbackpage)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>View Feedback</title>
</head>
<body>
  <form action="view_feedback.php" method="post">
    <h2>View Feedback</h2>
    <label for="studentname">Enter Student Name:</label>
    <input type="text" id="studentname" name="studentname" required>
    <button type="submit">Submit</button>
  </form>
</body>
</html>
```

6.14 send.php

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head>
  <meta charset="utf-8">
  <title>Send Email</title></head>
<body>
  <form action="send.php" method="post">
    <h2>Feedback</h2>
    <label for="studentname">Student Name</label>
    <input type="text" id="studentname" name="studentname" required><br><br>
    <label for="message">Feedback</label>
```

```
    <textarea id="message" name="message" rows="20" cols="50"
required></textarea><br>
    <button type="submit">SEND</button>
  </form>
</body>
</html>
```

6.15 leave.php

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head>
  <meta charset="utf-8">
  <title>Send Email</title>
</head>
<body>
<form class="" action="leave.php" method="post">
  <h1>Student Name</h1><input type="text" id="studentname" name="studentname"
required><br><br>
  <h1>LeaveLetter</h1>
  <textarea id="leaveletter" name="leaveletter" rows="30" cols="70"
required></textarea><br>
  <button type="submit" value="send">SEND</button>
</form>
</body>
</html>
```

6.16 Displayleavepage.php

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head>
```

```
    <meta charset="utf-8">
    <title>Student Leave Status</title>
</body>
    <h1>Student Leave Status</h1>
    <form action="update_status.php" method="post">
        <table>
            <tr>
                <th>Student Name</th>
                <th>Status</th>
            </tr>
            <?php
            // Database connection settings
            $servername = 'localhost';
            $username = 'root';
            $password = '';
            $dbname = 'project';
            // Connect to the database
            $conn = new mysqli($servername, $username, $password, $dbname);
            if ($conn->connect_error) {
die("Connection failed: " . $conn->connect_error);
            }
            // Retrieve student name and leave status from the database
            $sql = "SELECT studentname, status FROM leavetable";
            $result  =  $conn->query($sql);                    if
($result->num_rows > 0) {              // Output data
of each row              while ($row =
$result->fetch_assoc()) {
                echo "<tr>";
                echo "<td>" . $row["studentname"] . "</td>";
```

```
            echo "<td>";
            echo "<input type='hidden' name='studentname[]' value='" .
$row["studentname"] . "'>";
            echo "<select name='status[]'>";          echo "<option
  value='Approved'>Approved</option>";              echo
"<option value='Pending'>Pending</option>";              echo
"<option value='Rejected'>Rejected</option>";
            echo "</select>";              echo
"</td>";              echo
"</tr>";
          }
        } else {
          echo "<tr><td colspan='2'>No data available</td></tr>";
        }
        $conn->close();
        ?>
      </table>
      <button type="submit" class="submit-button">Update Status</button>
  </form>
</body>
</html>
```

6.17 leaveindec.php

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head>
  <meta charset="utf-8">
  <title>Send Email</title>
</head>
```

```
<body>
<form class="" action="leave.php" method="post">
   <h1>Student Name</h1><input type="text" id="studentname" name="studentname" required><br><br>
   <h1>LeaveLetter</h1>
   <textarea id="leaveletter" name="leaveletter" rows="30" cols="70" required></textarea><br>
   <button type="submit" value="send">SEND</button>
</form>
</body>
</html>
```

6.18 update_status.php

```
<?php
// Database connection settings
$servername = 'localhost';
$username = 'root';
$password = '';
$dbname = 'project';
// Connect to the database
$conn = new mysqli($servername, $username, $password, $dbname);
if ($conn->connect_error) {     die("Connection failed: " . $conn-
>connect_error);
}
$studentNames = $_POST['studentname'];
$updatedStatuses = $_POST['status'];
// Update the status column in the database for each student for
($i = 0; $i < count($studentNames); $i++) {
$studentName = $studentNames[$i];
```

```
    $updatedStatus = $updatedStatuses[$i];
    $sql = "UPDATE leavetable SET status = '$updatedStatus' WHERE studentname =
'$studentName'";
    if ($conn->query($sql) !== true) {        echo
"Error updating status: " . $conn->error;
        exit;
    }
}
echo " <script> alert('Status updated successfully'); window.location.href
= 'student_leave_status.php';
</script>";
$conn->close();
?>
```

6.19 View_feedback.php

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Student Feedback</title>
    </head>
<body>
    <?php
        $studentName = $_POST['studentname'];
        $servername = "localhost";
    $username = "root";
    $password = "";
    $dbname = "project";
    $conn = new mysqli($servername, $username, $password, $dbname);
```

```
    if ($conn->connect_error) {
        die("Connection failed: " . $conn->connect_error);
    }
    $sql = "SELECT feedback FROM students WHERE studentName = '$studentName'";
    $result = $conn->query($sql);
    if ($result->num_rows > 0) {
            $row = $result->fetch_assoc();
        $feedback = $row['feedback'];
        echo "<div class='feedback-container'>";
        echo "<h2>Feedback for $studentName:</h2>";
        echo "<p>$feedback</p>";
        echo "</div>";
    } else {
            echo "<div class='feedback-container'>";
        echo "<h2>No feedback found for $studentName.</h2>";
        echo "</div>";
    }
        $conn->close();
    ?>
</body>
</html>
```

Chapter-7

SYSTEM TESTING

7.1 Introduction

The testing phase of the Parent-Teacher Portal is a critical stage in the development process. It aims to validate the functionality, performance, and usability of the system. Testing ensures that the portal meets the specified requirements, performs reliably, and delivers a seamless user experience. This chapter provides an overview of the testing activities involved in the development of the Parent-Teacher Portal, including unit testing, integration testing, system testing, and acceptance testing. The chapter also highlights the importance of thorough testing in ensuring the quality and effectiveness of the portal.

(Fig : An error occur when the database was not connected)

7.2 Types of Testing

Unit testing:

Unit testing is a crucial aspect of software development where individual components or units of code are tested in isolation to ensure their proper

functionality. In our project, unit testing involves validating the student feedback submission, college premises tracking, leave request system, and user interface components. By thoroughly testing each unit, you can identify and fix any defects or issues early on, ensuring that the project functions as intended and delivers a reliable and high-quality user experience.

Integration testing:

Integration testing is a critical phase in the software development lifecycle where different components or modules of a system are tested together to ensure their proper integration and collaboration. In our project, integration testing involves testing the interaction between various features and functionalities, such as the communication between the parent and teacher portals, data exchange between different modules, and the integration of the backend systems. By conducting thorough integration testing, you can identify and resolve any issues or inconsistencies that may arise when different components interact, ensuring a smooth and seamless functioning of the overall system.

System testing:

System testing is a comprehensive testing approach that verifies the behavior and performance of a complete software system as a whole. In our project, system testing involves testing the parent-teacher portal with all its integrated features, including student feedback submission, college premises tracking, leave request system, and user-friendly interface. This testing phase ensures that the entire system meets the specified requirements, functions as intended, and delivers the expected results to end-users. By conducting thorough system testing, you can identify any issues, validate the system's functionality, and ensure a high-quality and reliable user experience.

Acceptance testing:

Acceptance testing is the final phase of testing where the software system is evaluated to determine whether it meets the requirements and expectations of the end-users and stakeholders. In our project, acceptance testing involves validating the parent-teacher portal with real-world scenarios and user interactions. It ensures that the system meets the desired functionality, usability, and performance criteria. By conducting acceptance testing, you can gain confidence in the system's readiness for deployment, gather feedback from users, and make necessary refinements to ensure a successful adoption and satisfaction of the intended users.

7.3 Levels of Testing

Unit testing:

This level focuses on testing individual components or units of code in isolation to verify their correctness and functionality. It ensures that each unit performs as expected and meets the specified requirements.

Integration testing:

Integration testing verifies the interaction and collaboration between different modules or components of the system. It ensures that the integrated units work together seamlessly, exchange data correctly, and handle dependencies effectively.

System testing:

System testing evaluates the behaviour and performance of the complete software system as a whole. It validates the system's compliance with the specified requirements, functionality, performance, and reliability. It covers end-to-end testing scenarios and ensures that all components work together smoothly.

Acceptance testing:

Acceptance testing is performed to determine whether the system meets the requirements and expectations of the end-users and stakeholders. It focuses on validating the system's functionality, usability, and performance in real-world scenarios. It ensures that the system is ready for deployment and meets the intended users' needs.

Chapter-8
CONCLUSION

The “Parent-Teacher Portal” project is a comprehensive and efficient solution that enhances communication and collaboration between parents and teachers. With features such as student feedback submission, college premises tracking, and leave request management, the portal facilitates direct interaction and transparency. Through rigorous testing and continuous improvements, the project ensures a reliable and user-friendly platform. By promoting active parental involvement and streamlining administrative processes, the Parent Teacher Portal project has the potential to significantly improve educational outcomes and contribute to the success of students.

Chapter-9

FUTURE ENHANCEMENTS

Future enhancements for the Parent-Teacher Portal may include a mobile app for improved accessibility, real-time notifications, advanced analytics and reporting, integration with learning management systems, expanded tracking capabilities, two-way communication features, and multilingual support. These enhancements aim to enhance user experience, streamline communication, provide valuable data insights, and cater to diverse user needs, ensuring the continuous improvement and effectiveness of the Parent-Teacher Portal.

Chapter-10

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