Task Schedular System

A MINI-PROJECT REPORT

Submitted By

KRITHIKA B 2116220701137

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(AUTONOMOUS) THANDALAM
CHENNAI-602105

NOV/DEC, 24

BONAFIDE CERTIFICATE

Certified that this project report " **TASK SCHEDULAR SYSYTEM** " is the bonafide work of **" KRITHIKA B (220701137) "** who carried out the project work under my supervision.

SIGNATURE

Mrs.JANANEE.V
Assistant Professor ,
Computer Science and Engineering,
Rajalakshmi Engineering College
(Autonomus)
Thandalam, Chennai - 602 105.

Submitted for the Practical Examination held on_____

INTERNAL EXAMINER **EXTERNAL EXAMINER**

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KRITHIKA.B 2116220701137

ABSTRACT

This project is a web-based application developed using a combination of front-end and back-end technologies. The front-end of the application is built using HTML, CSS, JavaScript, and Bootstrap, providing a responsive and user-friendly interface. Bootstrap is utilized for its efficient grid system and pre-designed components.

The back-end is developed using PHP, which handles server-side logic, database interactions, and user authentication. MySQL serves as the database management system, responsible for storing and managing user data, such as login credentials and task-related information. The integration of JavaScript further enhances the user experience by enabling dynamic interactivity on the client side.

The key features of the project include user authentication, task creation and scheduling, real-time task tracking on a calendar interface. Users can also create personalized task lists and filter tasks by date. The application offers a clean, intuitive interface with secure login functionalities, ensuring that all data is accessible only to authorized users.

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CHAPTER 1
INTRODUCTION

1.1 INTRODUCTION

In today's fast-paced environment, effective task management and scheduling have become essential for both personal and professional success. This project aims to address the growing need for an intuitive, web-based platform that allows users to manage their tasks efficiently and stay organized. By utilizing a combination of modern web technologies such as HTML, CSS, JavaScript, PHP, MySQL, and Bootstrap, the project delivers a robust and scalable solution for task tracking and scheduling.

The project integrates a user-friendly interface that is accessible across devices, ensuring that users can manage their tasks on-the-go. With features such as real-time task creation, a calendar interface for task visualization, and notifications for upcoming deadlines, this application serves as a comprehensive tool for staying on top of daily responsibilities. The incorporation of Bootstrap ensures a responsive design, while PHP and MySQL power the back-end, enabling secure data storage, user authentication, and dynamic interactions between the user and the system.

Through this project, the goal is to provide users with a simple, yet powerful platform that not only helps track tasks but also improves productivity and ensures that important deadlines are met without hassle. The combination of front-end and back-end technologies makes the system efficient, scalable, and highly interactive.

1.2 SCOPE OF THE WORK

The scope of this project is to develop a web-based task management and scheduling system that enables users to efficiently organize, track, and manage their daily tasks. It focuses on providing key functionalities such as secure user authentication, allowing users to log in and manage their tasks with confidence. The system will enable users to create, edit, and delete tasks, assigning details like due dates, priority levels, and descriptions to ensure effective organization. A calendar interface will allow users to view tasks on specific dates, dynamically populating their schedules for clear visualization. Additionally, the project includes a feature for sending notifications and reminders about upcoming deadlines, ensuring that important tasks are not missed.

The use of Bootstrap ensures the platform is fully mobile-responsive, providing an optimal user experience across different devices. Real-time task updates will be enabled through JavaScript, allowing instant reflection of changes without page reloads. MySQL will be used for secure storage and management of user data and tasks, ensuring accessibility and data integrity at all times. Designed for flexibility and scalability, this system can cater to individual users or teams managing collaborative projects.

The project aims to deliver a functional and user-friendly task management solution that meets the needs of diverse users. With the potential for future enhancements like task sharing and team collaboration, the system is positioned to adapt and grow, making it a valuable tool for improving productivity and organization in various contexts.

1.3 AIM AND OBJECTIVES OF THE PROJECT

The aim of this project is to develop a comprehensive web-based task management and scheduling system that enhances productivity and organization for users. By leveraging modern web technologies, the project seeks to create a user-friendly platform that allows individuals and teams to efficiently manage their tasks and deadlines. To achieve this aim, the project includes objectives such as implementing a secure user authentication system that enables safe account management and task handling. Users will be able to create, edit, and delete tasks, assigning relevant details like due dates, priority levels, and descriptions for effective organization.

Additionally, the project will feature a calendar interface that visually displays tasks on specific dates, facilitating better planning and time management. A notification system will be developed to alert users about upcoming deadlines and reminders, ensuring important activities are not overlooked. The application will be designed with a responsive layout using Bootstrap, providing an optimal user experience across various devices. Real-time task updates will be enabled through JavaScript, allowing instant visibility of changes without page refreshes. By using MySQL for secure data storage and management, the system will maintain data integrity and accessibility. Ultimately, this project aims to deliver a functional solution that meets the needs of diverse users, with the potential for future enhancements like task sharing and team collaboration.

CHAPTER 2
SYSTEM SPECIFICATIONS

2.1 HARDWARE SPECIFICATIONS

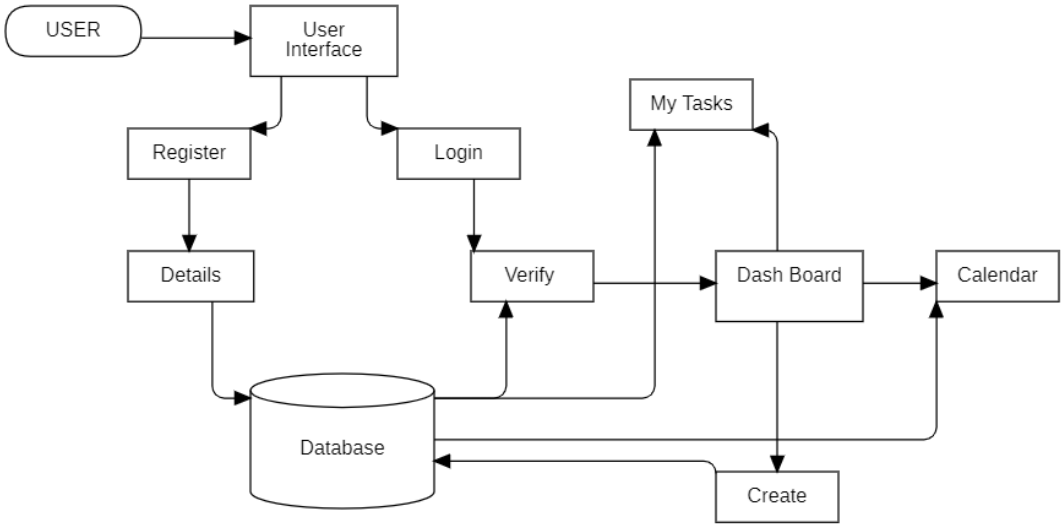
The hardware specifications for this project include a server or local machine capable of hosting the database (MySQL) and web server (e.g., Apache) for handling the task management system. The system can be run on standard hardware with at least 4GB of RAM and a dual-core processor for efficient performance. A reliable internet connection is necessary for data fetching and user interaction with the web-based interface. Users can access the system via any device (PC, laptop, tablet, or smartphone) with a modern web browser. No specialized hardware is required beyond the hosting server and user devices.

2.2 SOFTWARE SPECIFICATIONS

The front-end of the project uses HTML for the structure and layout of the web pages, ensuring semantic and well-organized content. CSS is employed for styling, with Bootstrap included to achieve a responsive design, making the application accessible on various devices. JavaScript adds interactivity and real-time updates, allowing for a dynamic user experience.

On the back-end, PHP is utilized for server-side processing, managing user requests and interacting with the database. For data storage, the system relies on MySQL, which securely manage and store user data, tasks, and other relevant information.

CHAPTER 3
ARCHITECTURE DIAGRAM



CHAPTER 4
MODULE DESCRIPTION

4.1 DASHBOARD MODULE

The dashboard serves as the central hub for users to manage their tasks. Upon logging in, users are presented with a personalized dashboard displaying a summary of their task status, including pending, in-progress, and completed tasks. This module provides a clear overview of tasks that require immediate attention, making it easier for users to prioritize and focus on specific activities. It also includes a visual progress indicator, allowing users to track the completion status of their tasks. Users can interact with tasks directly from the dashboard, accessing quick options to mark tasks as complete or move them to in-progress status. By offering an at-a-glance view of their workload, the dashboard ensures that users remain organized and aware of their pending obligations.

4.2 TASK CREATION MODULE

This module allows users to create new tasks and manage existing ones. Users can add task details such as the title, description, due date, and priority level. This ensures that tasks are created with all relevant information, providing users with a structured way to manage their workload. The task creation form is intuitive and user-friendly, allowing users to quickly input details and set deadlines. Once created, tasks can be viewed and edited within the dashboard or through the "My Tasks" page. This module also includes validation to ensure that required fields are filled out correctly, preventing incomplete task submissions. By offering the ability to modify and update tasks, this module supports dynamic task management, giving users full control over their task lists.

4.3 MY TASKS MODULE

The "My Tasks" module provides users with a comprehensive list of all the tasks they have created. This module allows users to view the status of their tasks (pending, in-progress, or completed) and edit any details as necessary. It serves as a record of all tasks, offering options to filter tasks based on status, priority, or due date. Users can update or modify tasks, mark them as complete, or change their priority level. This module enhances task management by giving users complete visibility into their task history, ensuring they can track progress and revisit tasks that need attention. The ability to edit tasks helps users stay on top of their responsibilities and adjust plans as needed.

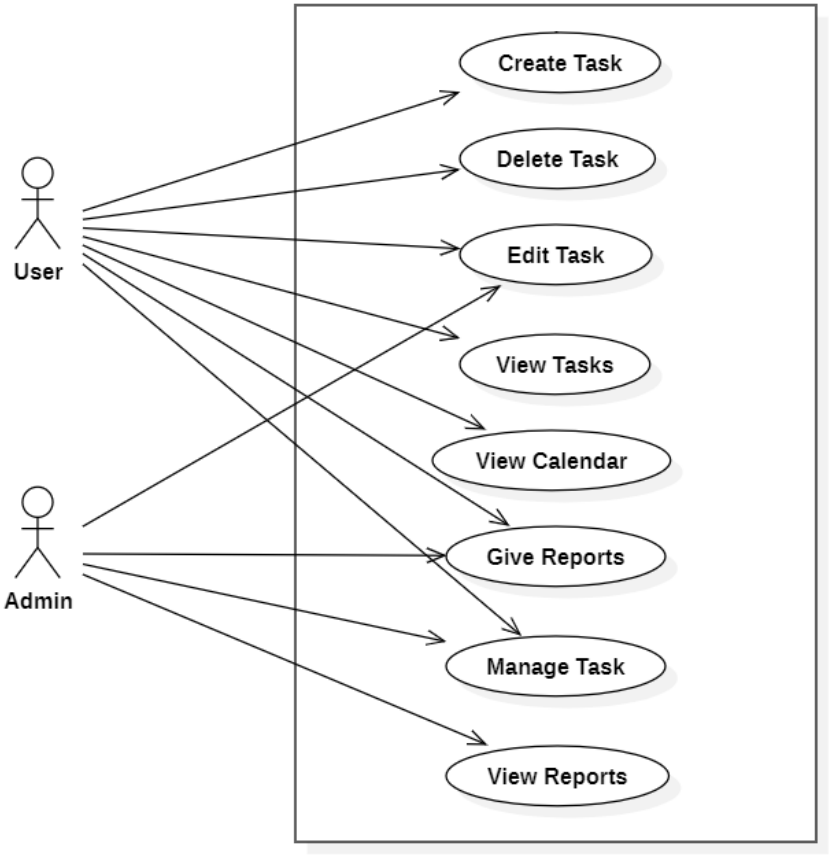
4.4 CALENDAR MODULE

The calendar module visually displays all tasks in a calendar format, organized by their due dates. Users can view their tasks on specific days, weeks, or months, making it easier to manage deadlines and plan ahead. The tasks are dynamically populated into the calendar as they are created, allowing for real-time updates. This module helps users visualize their workload, providing an overview of how tasks are distributed over time. It also includes the ability to schedule new tasks directly from the calendar interface, improving usability and ensuring that users can efficiently plan their activities. By offering both a structured task list and a visual representation in the calendar, this module enhances overall time management and task tracking.

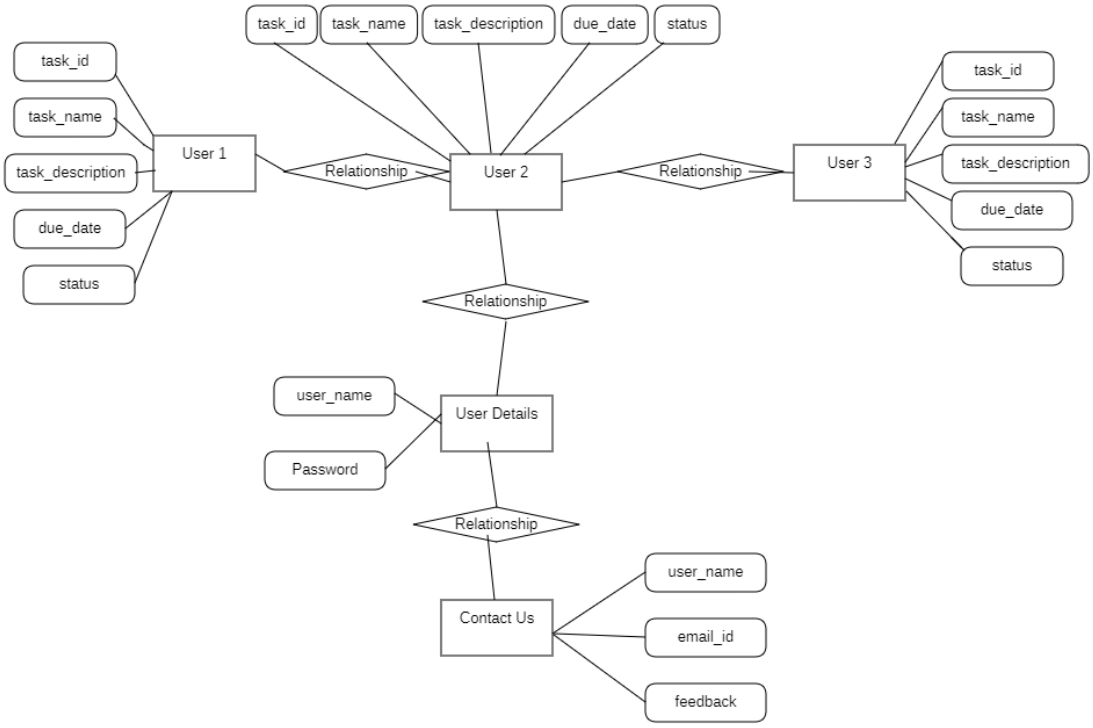
CHAPTER 5

SYSTEM DESIGN

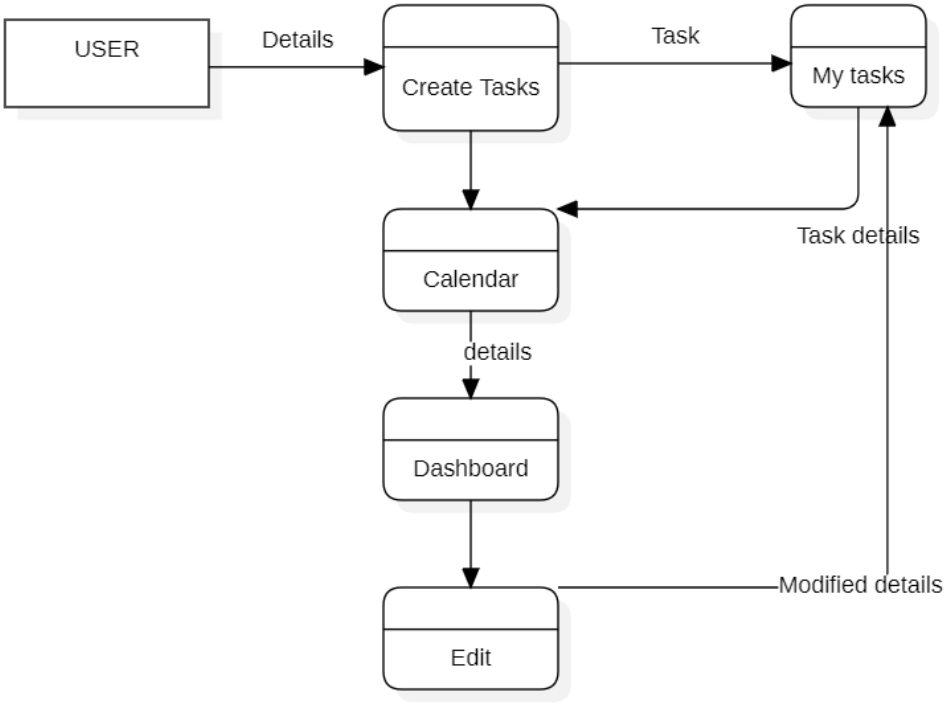
5.1 USE CASE DIAGRAM



5.2 ER DIAGRAM



5.3 DATA FLOW DIAGRAM



CHAPTER 6

SAMPLE CODING

HOMEPAGE.HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
  <link rel="icon" type="image/x-icon" href="logo.png">
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>HomePage</title>
      <div class="carousel" >
         <div class="carousel-item " >
           <div class="item">
      <script type="text/javascript">
         $(document).ready(function(){
            $('.carousel').carousel({
               indicators:true
            });
         });
      </script>
      <br><br><br><br>
      <div class="footer">
        <ul>
          <li><i class='bx bxl-instagram'></i>tasktrack_123</li>
          <li><i class='bx bxl-facebook-circle' ></i>tasktrack_123</li>
```

```
        <li><i class='bx bxl-whatsapp' ></i>+91 987654321</li>

        <li><i class='bx bx-phone-call' ></i>+91 987654321</li>

</body>

</html>
```

HOMEPAGE.CSS

```
body{
    background: url('bg1.jpg')no-repeat;
    background-size: cover;
    background-position: center;
    padding: 30px 30px 30px 30px;
    margin-bottom: 50px;
    margin-left: 50px;
    margin-right: 50px;
    margin-top: 50px;
    border: 2px solid rgba(255,255,255,.2) ;
    border-radius: 20px;
}
#tag_line{
    font-size: 35px;
    color: white;
}
#tag_line_highlight {
    background: -webkit-linear-gradient(#f6f7f8, #1f3dab);
    -webkit-background-clip: text;
    -webkit-text-fill-color: transparent;
    font-weight: bolder;
    font-size: 50px;
}
.footer {
    width: 100%;
    display: flex;
    justify-content: center;
    padding: 20px;
    background-color: transparent;
    color: white;
}
```

REGISTER.HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-
scale=1.0">
   <link rel="icon" type="image/x-icon" href="logo.png">
   <title>Register</title>
   <style>
      *{
         margin:0;
         padding:0;
         box-sizing: border-box;
         font-family: "Poppins",sans-serif;
      }
      body{
         display: flex;
         justify-content:center;
         align-items: center;
         min-height: 100vh;
         background: url('bg2.jpg')no-repeat;
         background-size: cover;
         background-position: center;
      }
   </style>
</head>
<body>
   <div class="wrapper">
      <form action="register.php" method="post">
         <h1>Register</h1>
         <div class="input-box">
            <input type="text" name="username" placeholder="Username"
required>
         </div>
         <div class="input-box">
            <input type="password" name="confirm_password"
placeholder="Confirm Password" required>
         </div>
         <button type="submit" class="btn">Login</button>
      </form>
   </div>
</body>
</html>
```

LOGIN.HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
    <link rel="icon" type="image/x-icon" href="logo.png">
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <title>Login</title>
    <link rel="stylesheet" href="login.css">
</head>
<body>
    <div class="wrapper">
        <form action="login.php" method="post">
            <h1>Login</h1>
            <div class="input-box">
                <input type="text" placeholder="Username" name="username"
required>
            </div>
            <button type="submit" class="btn">Login</button>
            <div class="register-link">
                <p>Don't have an account? <a
href="register.html">Register</a></p>
            </div>
        </form>
    </div>
</body>
</html>
```

MAINPAGE.PHP

```
<!DOCTYPE html>
<html lang="en">
<head>
    <link rel="icon" type="image/x-icon" href="logo.png">
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
</head>
<body>
```

```
    <script src="mainpage.js"></script>
    <div class="header">
        <ul>
            <li><a href="mainpage.php">TASK TRACK</a></li>
        </ul>
        <ul id="reverse">
            <li><a href="create.html"><i class='bx bx-plus-
circle'></i>CREATE</a></li>
            <li ><a href="calendar.html"><i class='bx bx-
calendar'></i>CALENDAR</a></li>
            <li ><a href="myTasks.php"><i class='bx bx-list-ul'></i>MY
TASKS</a></li>
            <li>
                <img src="me.png" alt="Rounded Image" class="rounded-img"
onclick="toggleDropdown()">
            </li>
        </ul>
    </div>
</body>
</html>
```

MYTASKS.HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
    <link rel="icon" type="image/x-icon" href="logo.png">
</head>
<body>
    <script src="create.js"></script>
    <div class="header">
        <ul>
            <li><a href="mainpage.html">TASK TRACK</a></li>
        </ul>
        <ul id="reverse">
            <li><a href="create.html"><i class='bx bx-plus-
circle'></i>CREATE</a></li>
            <li ><a href="calendar.html"><i class='bx bx-
calendar'></i>CALENDER</a></li>
</body>
</html>
```

CREATE.HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
   <title>Create</title>
   <link rel="stylesheet" href="create.css">
</head>
<body>
   <script src="create.js"></script>
   <div class="header">
      <ul>
         <li><a href="mainpage.php">TASK TRACK</a></li>
      </ul>
   <div class="wrapper">
      <form action="create.php" method="post" >
         <p class="heading"><i class='bx bx-plus-circle' ></i>CREATE</p>
         <div class="input-box">
            <input type="text" placeholder="Username" name="username"
required>
         </div>
         <div class="input-box">
            <input type="text" placeholder="Task Name" name="taskname"
required>
         </div>
         <div class="input-box">
            <input type="text" placeholder="Description"
name="description">
         </div>
         <div class="input-box">
            <input type="text" placeholder="Due Date" name="duedate"
required>
         </div>
</body>
</html>
```

CONTACTUS.HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
   <link rel="icon" type="image/x-icon" href="logo.png">
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-
scale=1.0">
   <title>Contact Us</title>
```

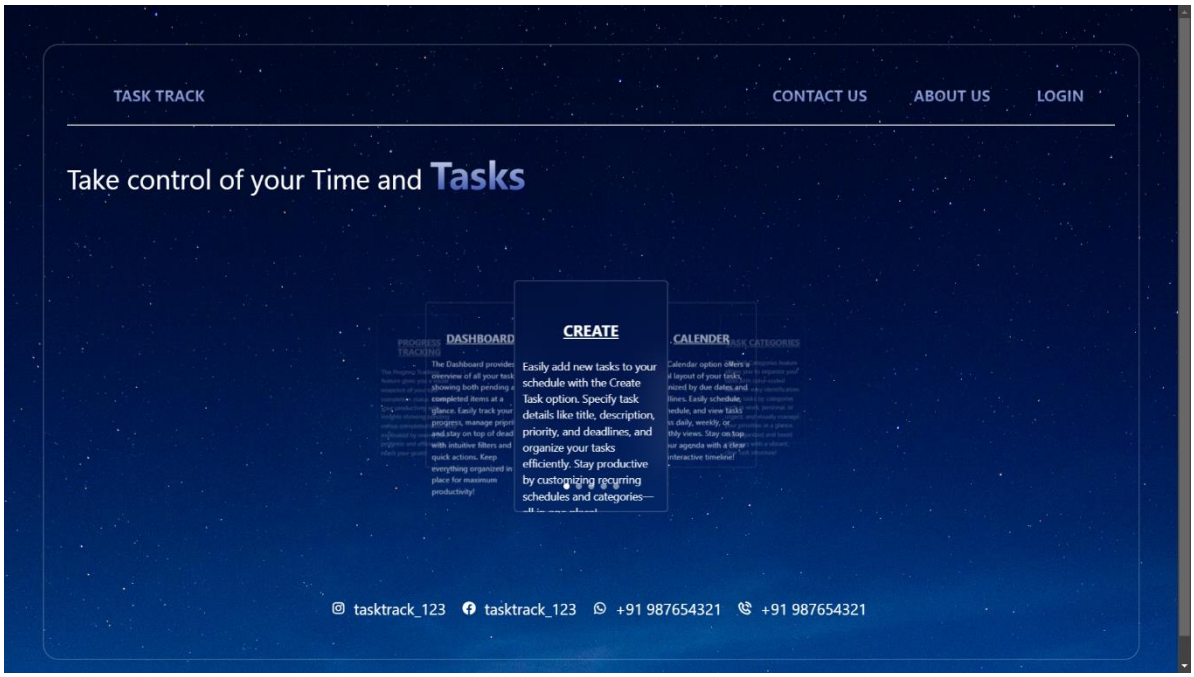
```
    <link rel="stylesheet" href="ContactUs.css">
</head>
<body>
    <div class="banner">
        <div class="header">
            <ul>
                <li><a href="homepage.html">TASK TRACK</a></li>
            </ul>
        </div>
        <p id="heading">CONTACT US</p>
        <p id="body">Have questions or need assistance with TaskTrack? Feel free to get in touch with our support team. We're here to help!</p>
</body>
</html>
```

CALENDAR.HTML

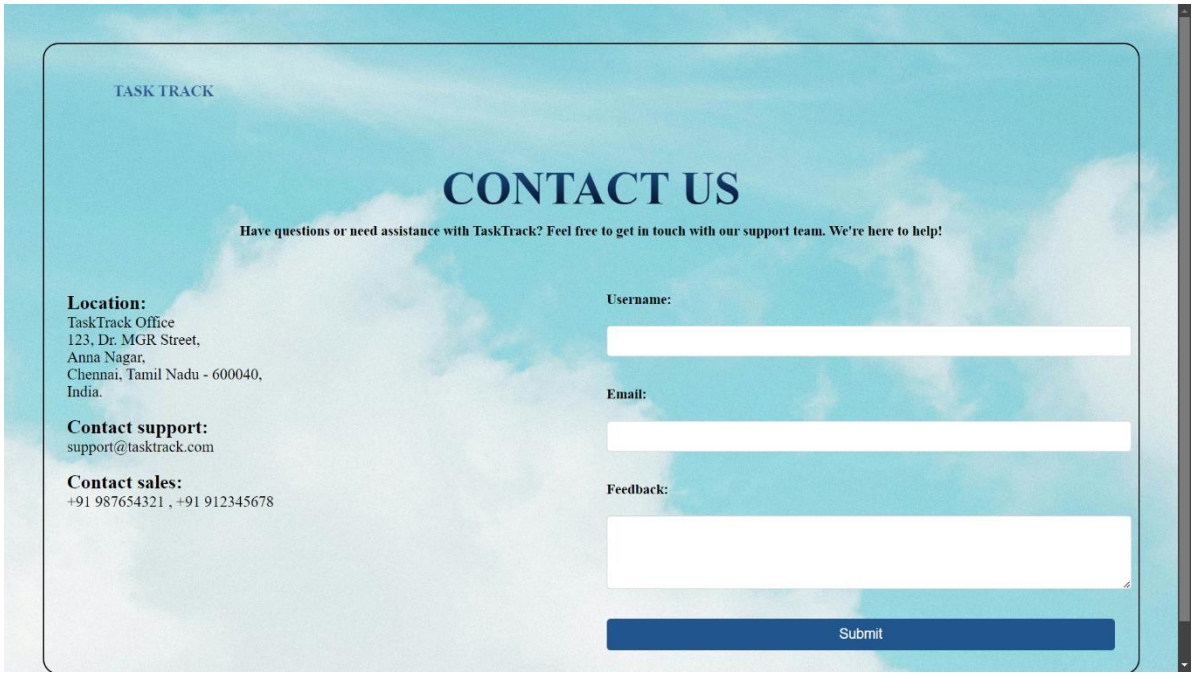
```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Calendar</title>
    <link rel="stylesheet" href="calendar.css">
</head>
<body>
    <script src="calendar.js"></script>
    <div class="header">
        <ul>
            <li><a href="mainpage.php">TASK TRACK</a></li>
        </ul>
        <ul id="reverse">
            <li><a href="create.html"><i class='bx bx-plus-circle'></i>CREATE</a></li>
            <li ><a href="myTasks.php"><i class='bx bx-list-ul'></i>MY TASKS</a></li>
            <li><img src="me.png" alt="Rounded Image" class="rounded-img" onclick="toggleDropdown()">
        <p class="headingg"><i class='bx bx-calendar'></i>Calendar</p>
                <button onclick="generateCalendar()">Show Calendar</button>
            </div>
            <div id="calendar-grid" class="calendar-grid"></div>
        </div>
    </div>
</body>
</html>
```

CHAPTER 7
SCREEN SHOTS

HOME PAGE

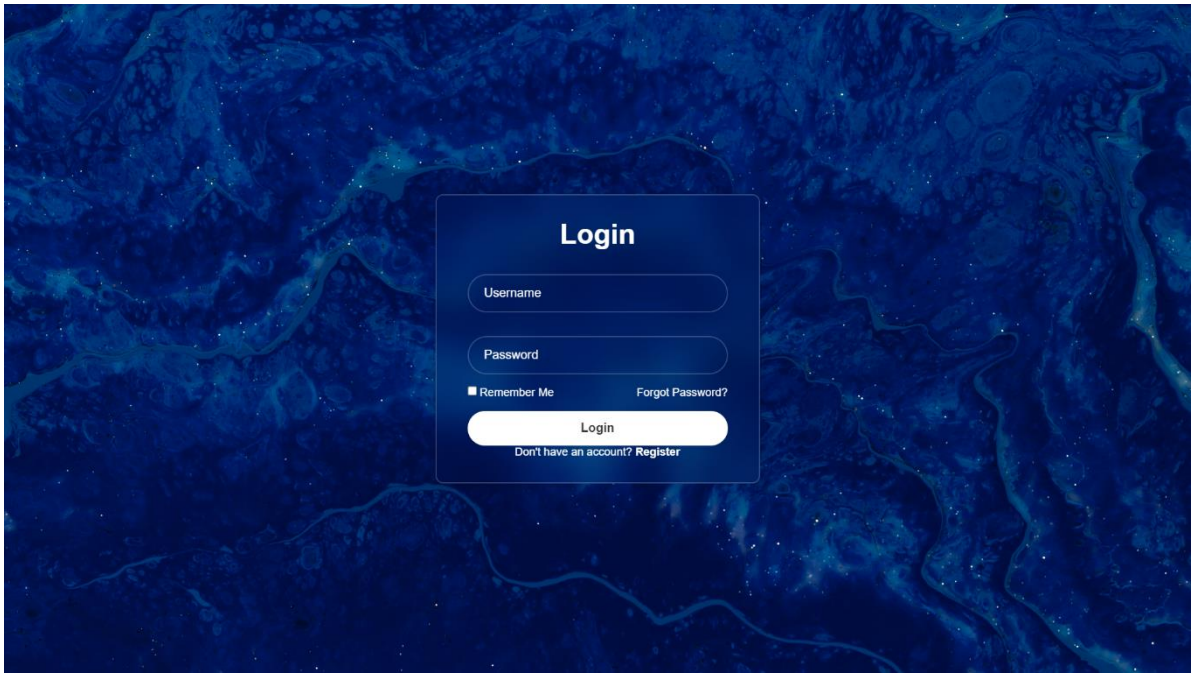


CONTACT US PAGE

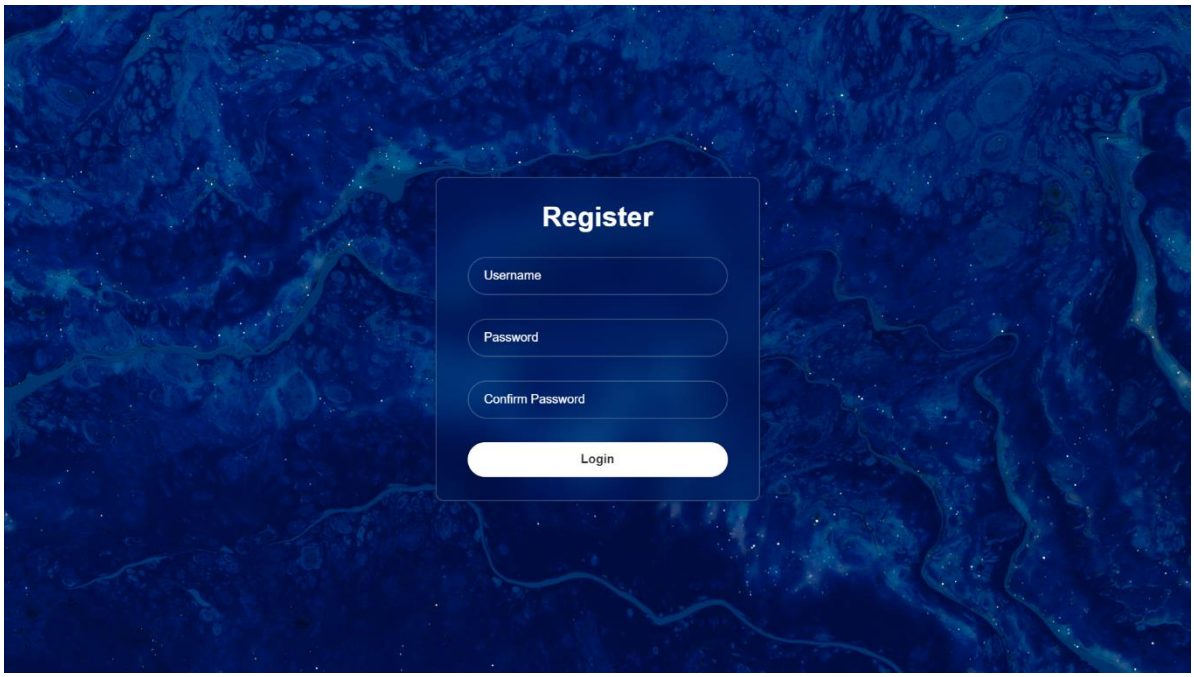


ABOUT US PAGE

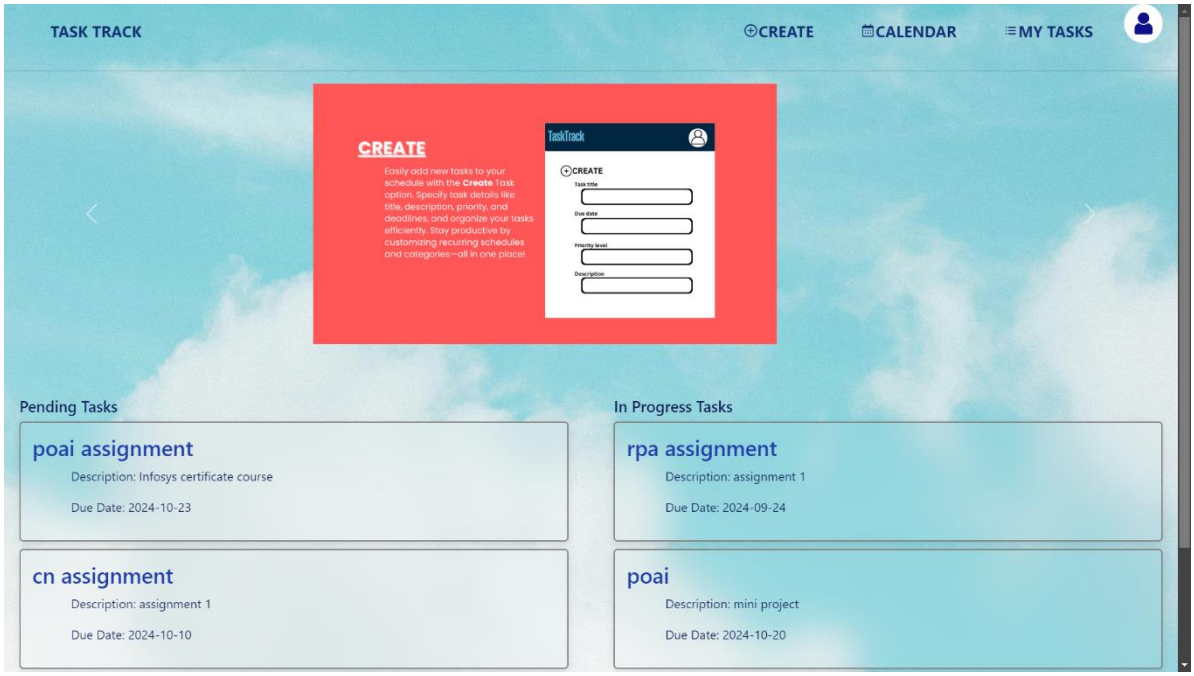
LOGIN PAGE



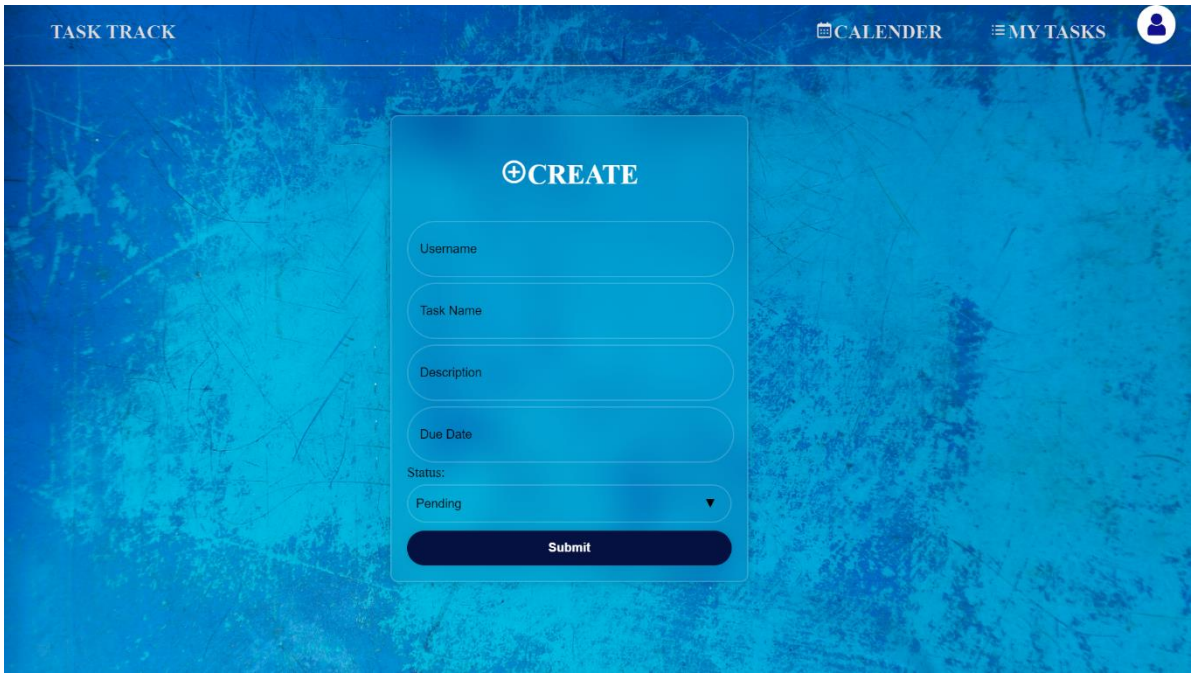
REGISTER PAGE



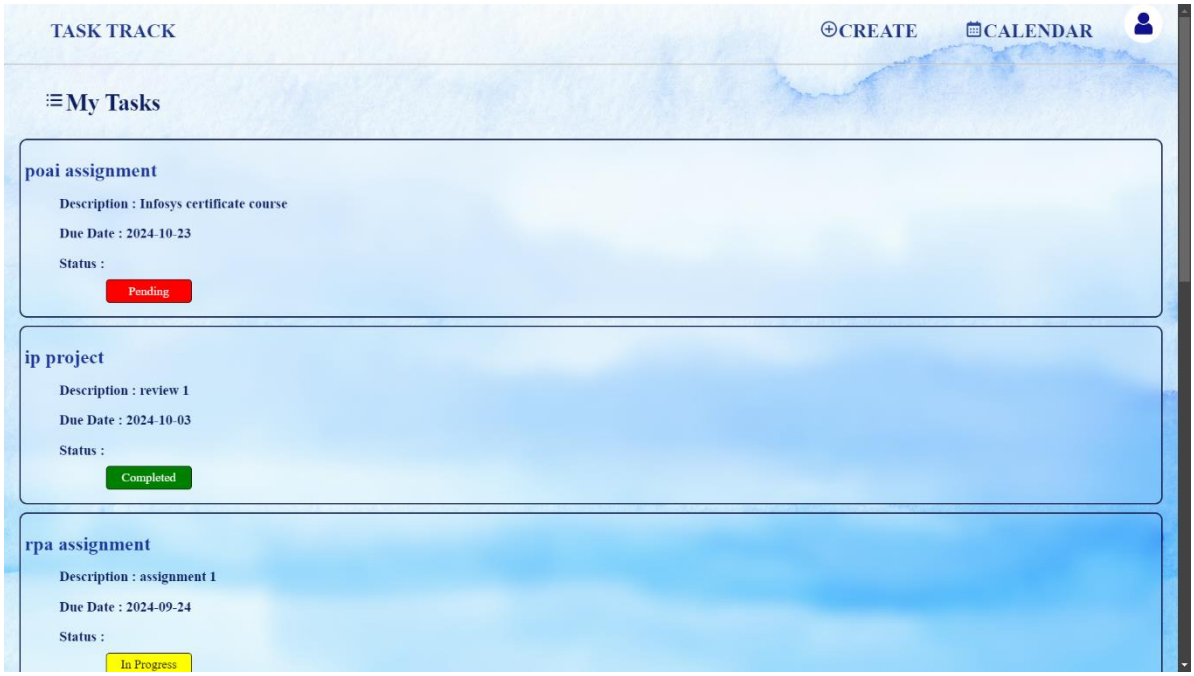
MAIN PAGE



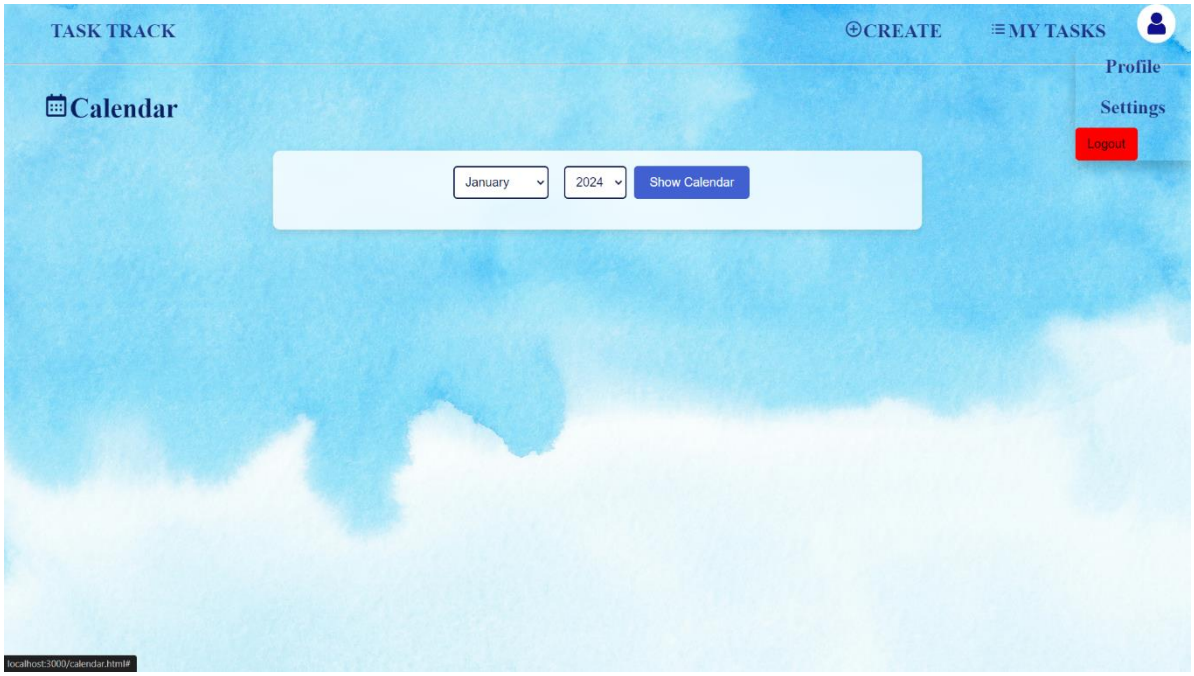
CREATE PAGE



MY TASKS PAGE



CALENDAR PAGE



CHAPTER 8
CONCLUSION

The task management and scheduling system developed in this project provides an efficient and intuitive platform for users to organize their tasks and manage their time. By offering key features such as secure login, task creation, and a personalized dashboard, the system empowers users to stay on top of their responsibilities with ease. The dynamic calendar view allows for a clear visualization of upcoming tasks, while the ability to prioritize and edit tasks ensures flexibility and adaptability in task management. These features work together to create a user-friendly environment that helps users maintain productivity.

One of the project's key strengths lies in its real-time functionality, allowing instant updates to tasks without the need for page reloads. This, combined with the mobile responsiveness provided by Bootstrap, ensures that the system delivers a seamless experience across devices. Users can access and manage their tasks whether on a desktop, tablet, or smartphone, making the system versatile and convenient for a variety of use cases. With a strong backend powered by PHP and MySQL, the platform guarantees secure storage and management of user data, maintaining data integrity at all times.

Looking toward future enhancements, there is significant potential for expanding the system's capabilities. A planned feature is the integration of notification alerts to remind users of upcoming deadlines or important tasks. Additionally, task-sharing and collaboration features could be added, allowing teams to work together more efficiently by sharing task lists and progress updates. These future improvements would transform the system into a more comprehensive project management tool, further enhancing its value for both individual users and teams managing complex projects.

CHAPTER 9
REFERENCES

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