

**21CSC205P - Database Management System
Project**

Task Management System

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T1 Section

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Objective

- The objective of the Task Management System is to establish an efficient and user-friendly platform that enables seamless organization, prioritization, and tracking of tasks within a project or workflow. The system aims to enhance collaboration and communication among team members.

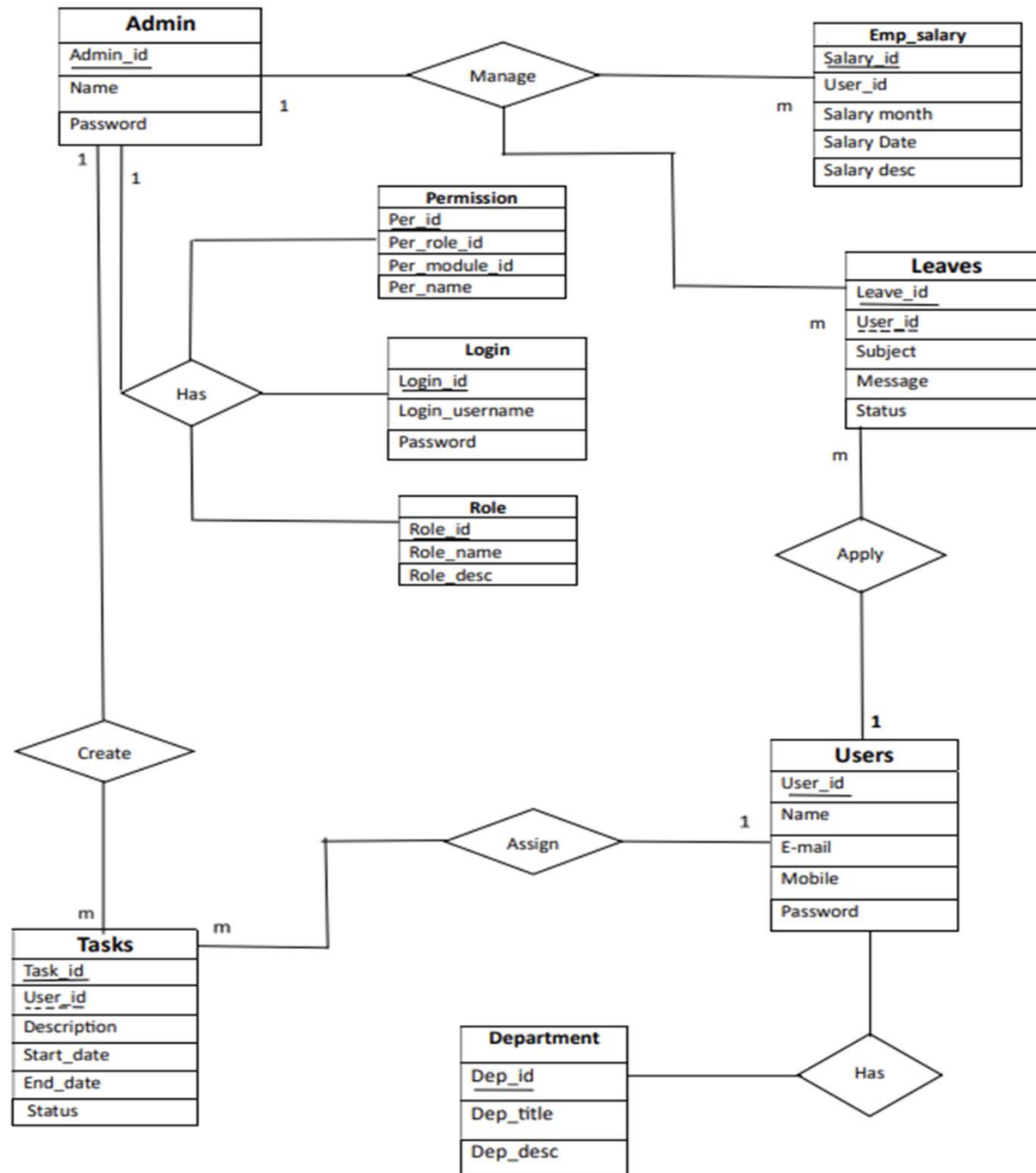
Problem Statement

- The current task management system lacks efficiency and user-friendly features, leading to delays in project timelines and difficulties in collaboration. Users face challenges in prioritizing tasks, tracking progress, and managing dependencies. There is a notable absence of real-time communication and notification functionalities, hindering seamless coordination among team members.

Architecture

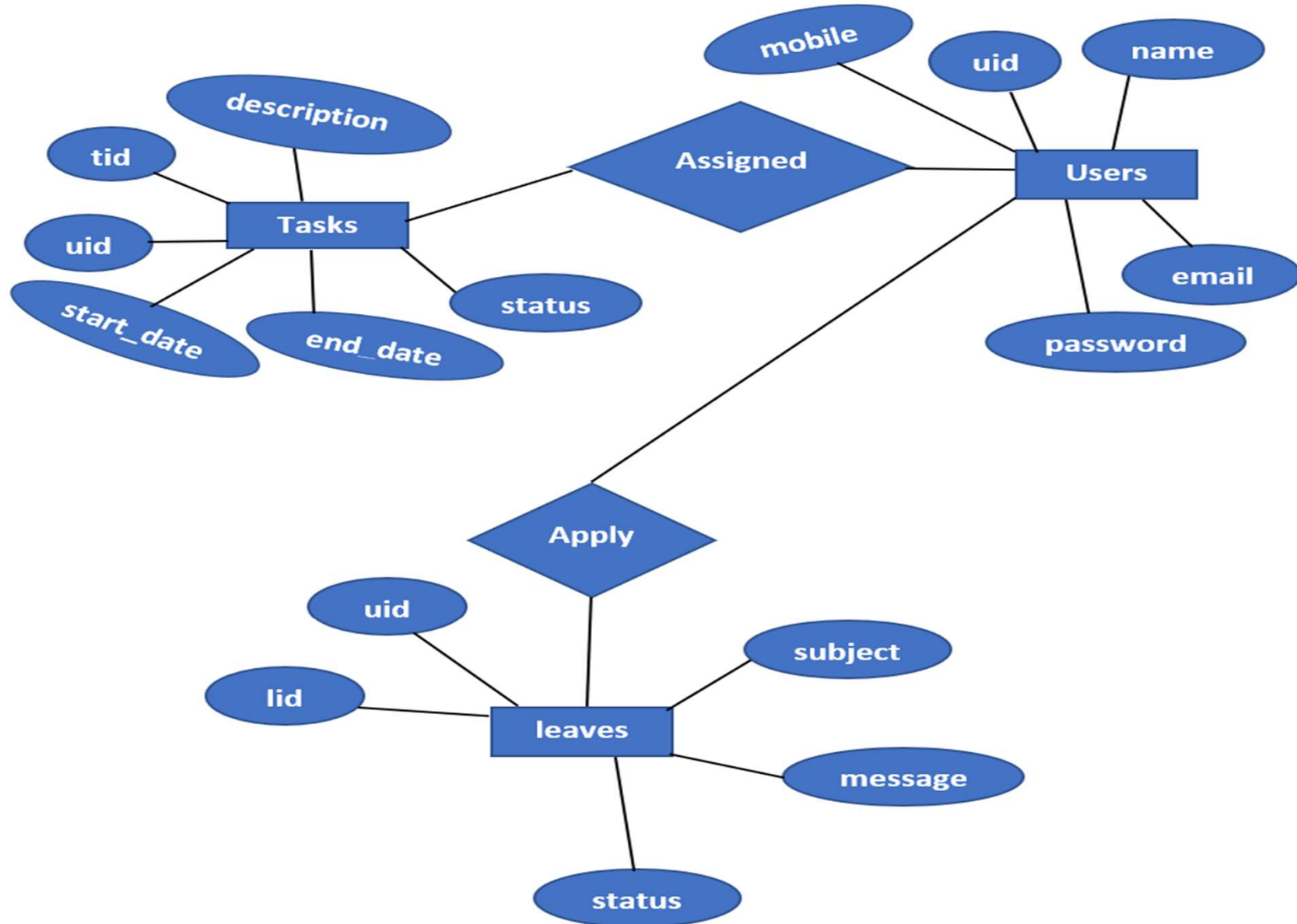
- The system architecture for a Task Management System typically involves a multi-tiered approach. At the presentation layer, a user-friendly interface allows individuals to interact with the system easily. The application layer houses the business logic, managing tasks, priorities, and user interactions. A robust database layer stores task-related information, supporting efficient data retrieval and updates. Integration with external tools and APIs may be incorporated for enhanced functionality.

ER Diagram

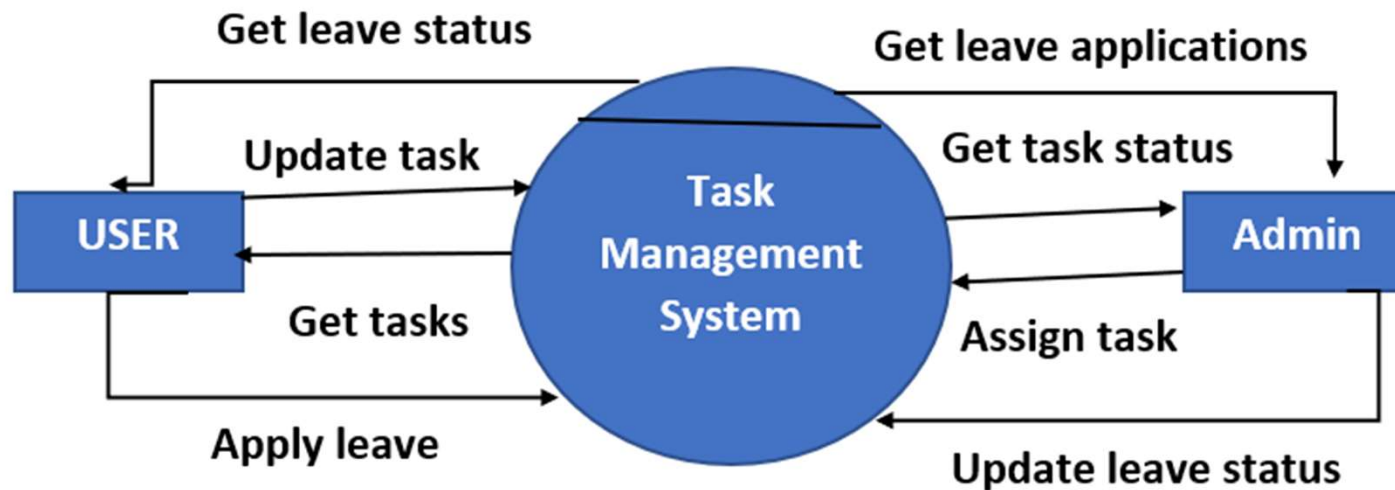


Task Management System

Flowchart



DFD Diagram



Hardware/Software Required

We have used following basics software for the project –

- 1.Text editor (Atom)
- 2.Web browser (Google Chrome)
- 3.AWS server

Language used

Frontend languages -

- 1.HTML
- 2.CSS
- 3.Bootstrap

Backend languages –

- 1.PHP
- 2.JavaScript
- 3.jQuery
- 4.MySQL

User panel –

To access user panel, a user has to registered, if he/she is registered it maylogin to the system and access the user panel or user dashboard. In the user

dashboard a user can do activities like –

1. View assigned task
2. Update task's status
3. Apply for leave
4. Check leave status
5. Logout

User login details –

Email id – test@gmail.com

Password – test@123

You may also register a new user and login to access the user panel

Admin panel –

To access admin panel, one has to login using admin's login details.
Once logged in as an admin, admin can do some basic activities like –

1. Create a new task
2. Edit a task
3. Delete a task
4. View all the leave applications
5. Approve or reject a leave
6. Logout

Admin login details –

Email id – admin@gmail.com

Password – admin@123

Code Snippet

```
<?php
session_start();
include('../includes/connection.php');
if(isset($_POST['adminlogin'])){
    $query = "select name,email,password from admins where email = '$_POST[email]' AND password = '$_POST[password]'";
    $query_run = mysqli_query($connection,$query);
    if(mysqli_num_rows($query_run)){
        $_SESSION['email'] = $_POST['email'];
        while($row = mysqli_fetch_assoc($query_run)){
            $_SESSION['name'] = $row['name'];
        }
        echo "<script type='text/javascript'>
            window.location.href = 'admin_dashboard.php';
        </script>";
    }
    else{
        echo "<script type='text/javascript'>
            alert('Please enter correct email and password. ');
            window.location.href = 'admin_login.php';
        </script>";
    }
}
}
?>
<html>
<head>
    <title>Admin Login</title>
    <!-- jQuery file -->
    <script src="../includes/juquery_latest.js"></script>
    <!-- Bootstrap files -->
    <link rel="stylesheet" href="../bootstrap/css/bootstrap.min.css">
    <script src="../bootstrap/js/bootstrap.min.js"></script>
    <!-- External CSS file -->
    <link rel="stylesheet" href="../css/style.css">
</head>
<body>
    <div class="row">
        <div class="col-md-3 m-auto" id="login_home_page">
            <center><h3 style="background-color: #5A8F7B;padding: 5px;width: 15vw;"><center>Admin login</center></h3></center>
            <form action="" method="post">
                <div class="form-group">
                    <input type="email" class="form-control" name="email" placeholder="Enter Email" required>
                </div>
                <div class="form-group">
                    <input type="password" class="form-control" name="password" placeholder="Enter Password" required>
                </div>
                <div class="form-group">
                    <center><input type="submit" class="btn btn-warning" name="adminlogin" value="Login"></center>
                </div>
            </form>
            <center><a href="../index.php" class="btn btn-danger">Go to Home</a></center>
        </div>
    </div>
</body>
</html>
```

Admin Login Page

User Login Page

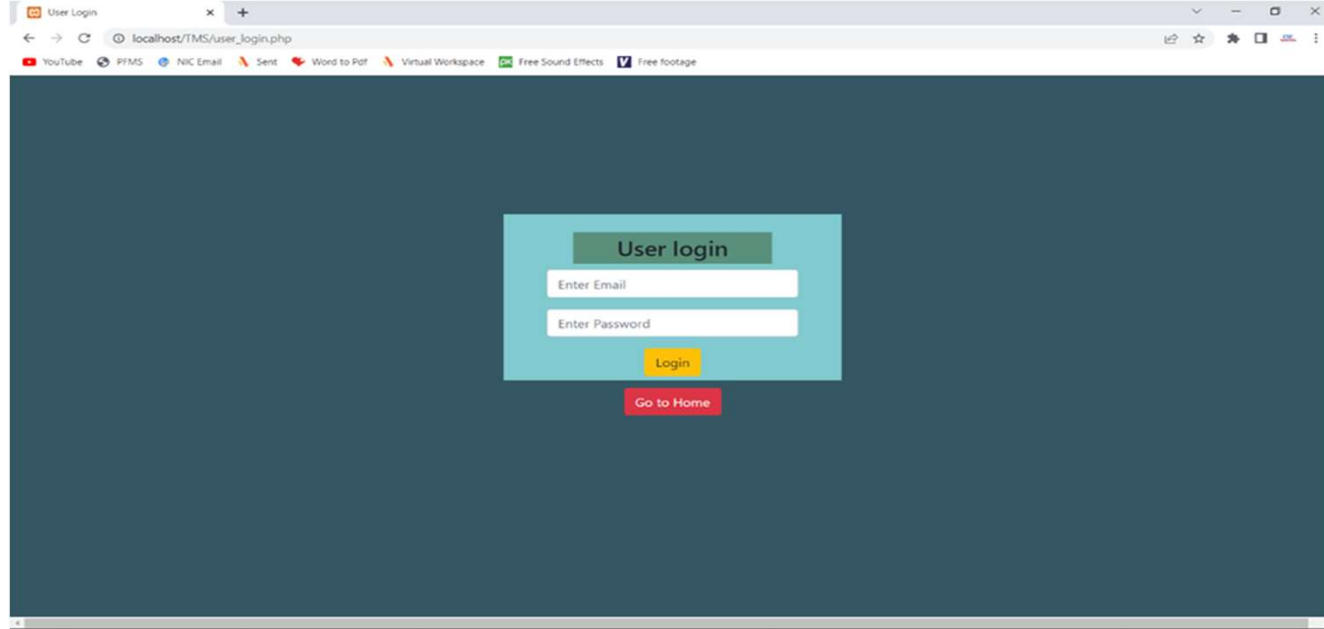
```
<?php
session_start();
include('includes/connection.php');
if(isset($_POST['userlogin'])){
    $query = "select email,password,name,uid from users where email = '$_POST[email]' AND password = '$_POST[password]'";
    $query_run = mysqli_query($connection,$query);
    if(mysqli_num_rows($query_run)){
        $_SESSION['email'] = $_POST['email'];
        while($row = mysqli_fetch_assoc($query_run)){
            $_SESSION['name'] = $row['name'];
            $_SESSION['uid'] = $row['uid'];
        }
        echo "<script type='text/javascript'>
            window.location.href = 'user_dashboard.php';
        </script>";
    }
    else{
        echo "<script type='text/javascript'>
            alert('Please enter correct email and password. ');
            window.location.href = 'user_login.php';
        </script>";
    }
}
?>

<html>
<head>
    <title>User Login</title>
    <!-- jQuery file -->
    <script src="includes/jquery_latest.js"></script>
    <!-- Bootstrap files -->
    <link rel="stylesheet" href="bootstrap/css/bootstrap.min.css">
    <script src="bootstrap/js/bootstrap.min.js"></script>
    <!-- External CSS file -->
    <link rel="stylesheet" href="css/style.css">
</head>
<body>
    <div class="row">
        <div class="col-md-3 m-auto" id="login_home_page">
            <center><h3 style="background-color: #5A8F7B;padding: 5px;width: 15vw;"><center>User login</center></h3></center>
            <form action="" method="post">
                <div class="form-group">
                    <input type="text" class="form-control" name="email" placeholder="Enter Email" required>
                </div>
                <div class="form-group">
                    <input type="password" class="form-control" name="password" placeholder="Enter Password" required>
                </div>
                <div class="form-group">
                    <center><input type="submit" class="btn btn-warning" name="userlogin" value="Login"></center>
                </div>
            </form>
            <center><a href="index.php" class="btn btn-danger">Go to Home</a></center>
        </div>
    </div>
</body>
</html>
```

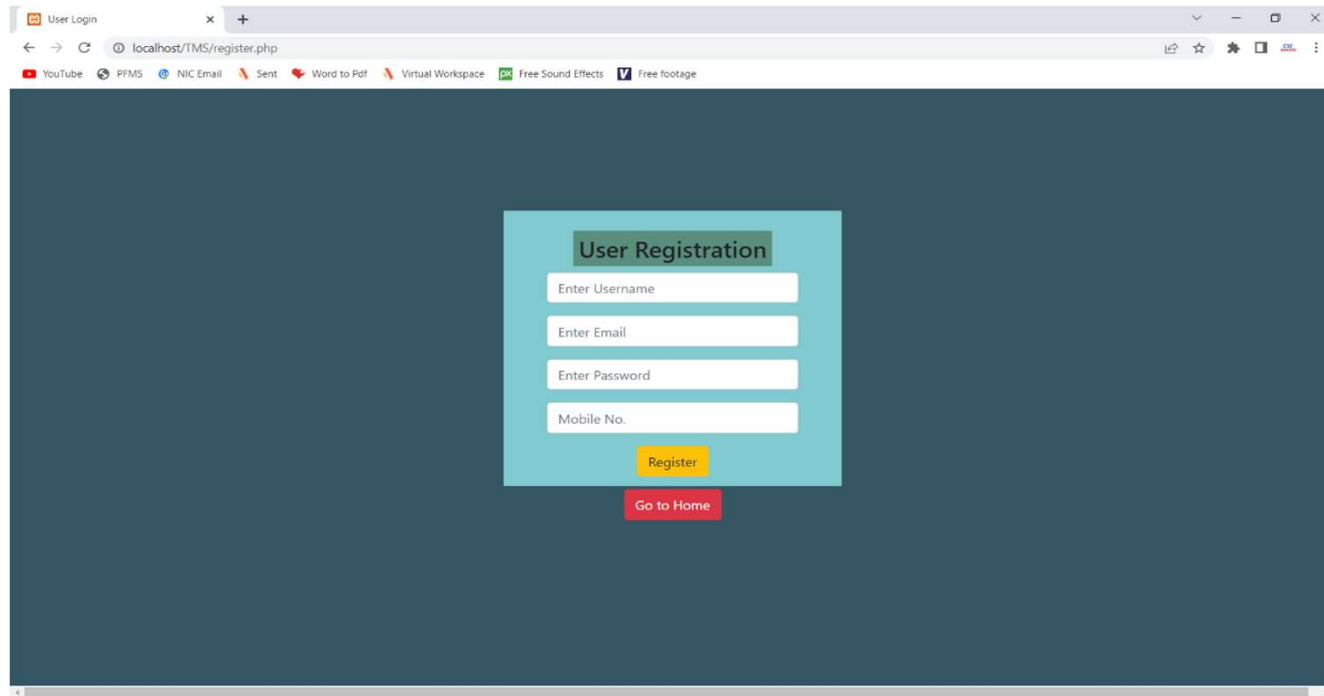
Manage Task

```
<?php
session_start();
if(isset($_SESSION['email'])){
include('../includes/connection.php');
}
?>
<html>
<body>
<center><h3>All assigned tasks</h3></center><br>
<table class="table" style="background-color: whitesmoke;width: 75vw;">
<tr>
<th>S.No</th>
<th>Task ID</th>
<th>Description</th>
<th>Start Date</th>
<th>End Date</th>
<th>Status</th>
<th>Action</th>
</tr>
<?php
$sno = 1;
$query = "select * from tasks";
$query_run = mysqli_query($connection,$query);
while($row = mysqli_fetch_assoc($query_run)){
?>
<tr>
<td><?php echo $sno; ?></td>
<td><?php echo $row['tid']; ?></td>
<td><?php echo $row['description']; ?></td>
<td><?php echo $row['start_date']; ?></td>
<td><?php echo $row['end_date']; ?></td>
<td><center><?php echo $row['status']; ?></center></td>
<td><a href="edit_task.php?id=<?php echo $row['tid']; ?>">Edit</a> | <a href="delete_task.php?id=<?php echo $row['tid']; ?>">Delete</a></td>
</tr>
<?php
$sno = $sno + 1;
}
?>
</table>
</body>
</html>
<?php
}
else{
header('Location:admin_login.php');
}
?>
```

Output



A screenshot of a web browser window titled "User Login". The address bar shows "localhost/TMS/user_login.php". The browser's taskbar at the top includes icons for YouTube, PFMS, NIC Email, Sent, Word to Pdf, Virtual Workspace, Free Sound Effects, and Free footage. The main content area has a dark blue background. In the center, there is a light blue rectangular box containing the "User login" form. The form has a title "User login" in a green box, followed by two input fields labeled "Enter Email" and "Enter Password", a yellow "Login" button, and a red "Go to Home" button below it.



A screenshot of a web browser window titled "User Login". The address bar shows "localhost/TMS/register.php". The browser's taskbar at the top includes icons for YouTube, PFMS, NIC Email, Sent, Word to Pdf, Virtual Workspace, Free Sound Effects, and Free footage. The main content area has a dark blue background. In the center, there is a light blue rectangular box containing the "User Registration" form. The form has a title "User Registration" in a green box, followed by four input fields labeled "Enter Username", "Enter Email", "Enter Password", and "Mobile No.", a yellow "Register" button, and a red "Go to Home" button below it.

User Dashboard

localhost/TMS/user_dashboard.php

YouTube PFMS NIC Email Sent Word to Pdf Virtual Workspace Free Sound Effects Free footage

☰ Task Management System

Email: test@gmail.com Name: Test

Dashboard

Update task

Apply leave

Leave status

Logout

Your task list

S.No	Task ID	Description	Start Date	End Date	Status	Action
1	1	Make the presentation for the upcoming meeting.	2022-08-03	2022-08-06	Not Started	Update
2	2	Prepare the list of all the absent employees.	2022-08-03	2022-08-06	Complete	Update

User Dashboard

localhost/TMS/user_dashboard.php

YouTube PFMS NIC Email Sent Word to Pdf Virtual Workspace Free Sound Effects Free footage

☰ Task Management System

Email: test@gmail.com Name: Test

Dashboard

Update task

Apply leave

Leave status

Logout

Apply Leave

Enter Subject

Type Message

Submit

User Dashboard

localhost/TMS/admin/admin_dashboard.php

YouTube

PFMS

NIC Email

Sent

Word to Pdf

Virtual Workspace

Free Sound Effects

Free footage

Task Management System

Create Task

Manage Task

Leave applications

Logout

Create a new Task

Select user:

-Select-

Description:

Mention the task

Start date:

dd-mm-yyyy

End date:

dd-mm-yyyy

Create

User Dashboard

localhost/TMS/admin/admin_dashboard.php

YouTube

PFMS

NIC Email

Sent

Word to Pdf

Virtual Workspace

Free Sound Effects

Free footage

Task Management System

Create Task

Manage Task

Leave applications

Logout

All assigned tasks

S.No	Task ID	Description	Start Date	End Date	Status	Action
1	1	Make the presentation for the upcoming meeting.	2022-08-03	2022-08-06	Not Started	Edit Delete
2	2	Prepare the list of all the absent employees.	2022-08-03	2022-08-06	Complete	Edit Delete
3	7	Task goes here.	2022-07-31	2022-08-02	Not Started	Edit Delete

User Dashboard

localhost/TMS/admin/admin_dashboard.php

YouTubePFMSNIC EmailSentWord to PdfVirtual WorkspaceFree Sound EffectsFree footage

☰ Task Management System

Create Task

Manage Task

Leave applications

Logout

All leave applications

S.No	User	Subject	Message	Status	Action
1	Test	Regarding one day CL	Sir, Having urgent work at home. I cannot attend the office today. Kindly grant me one day CL. Thanks.	Approved	Approve Reject
2	Test	Regarding 2 days EL	Sir, I want 2 days EL for some urgent work with station leave permission.	Rejected	Approve Reject
3	Ashok Kumar	Regarding one day CL	Sir, I have fever since yesterday. So i cannot attend the office today. Kindly grant me one day leave.	No Action	Approve Reject

Conclusion

The Task Management System serves as a pivotal tool in enhancing organizational efficiency and collaboration. By providing a structured platform for task organization, prioritization, and real-time tracking, the system contributes to improved project timelines and streamlined workflows. Its user-friendly interface, robust architecture, and integration capabilities foster effective communication and resource allocation. The Task Management System stands as a valuable asset, offering insights through analytics to support informed decision-making and optimize overall productivity within the organizational framework.



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