

DBMS MINI PROJECT

TIME MANAGEMENT **SOFTWARE**

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CONTENTS

- PROJECT OVERVIEW
- TABLE DESCRIPTION
- RELATIONAL DATABASE SCHEMA
- ER DIAGRAM
- FRONT END AND DATABASE VIEW
- SOURCE CODE
- SQL QUERIES

OVERVIEW

The company needs to develop a **time management system** for its executives. The software should let the executives register their daily appointment schedules. The information to be stored includes person(s) with whom meeting is arranged, venue, the time and duration of the meeting, and the purpose (e.g. for a specific project work). When a meeting involving many executives, and arrange a meeting (i.e. make relevant entries in the diaries of all the concerned executives) at that time. It should also inform the concerned executives about the scheduled meeting through e-mail. If no common slot is available, TMS should help the secretary to rearrange the appointments of the executives in consultation with the concerned executives for making room for a common slot. To help the executives check their schedules for a particular day the system should have a very easy-to-use graphical interface. Since the executives and the secretaries have their own desktop computers, the time management software should be able to serve several remote request simultaneously. Many of the executives are relative novices in computer usage. Everyday morning the time management software should e-mail every executive his appointments for the day. Besides registering their appointments and meeting, the executives might mark period for which they plan to be on leave. Also, executives might plan out the important jobs they need to do on any day at different hours and post it in their daily list of engagements. Other features to be supported by the TMS are the following: TMS should be able to provide several types of statistics such as which executive spent how much time on meetings. For which project how many meetings were organized for what duration and how many man-hours were devoted to it. Also, it should be able to display on the whole during any given period of time what fraction of time on the average each executive spent on meetings.

DATABASE:

Create database TMS;

Use TMS;

Table Description:

Following are the tables along with constraints used in Time Management Database:

1. EXECUTIVE TABLE :

This table consists of details of all the executives in the company. The information stored in this table includes the personal details of the executives.

Constraint: Executive ID (Eid) will be unique for each executive.

create table Executive(

Eid int primary key,

Ename varchar(20),

Email varchar(50),

Contact int(10),

DOJ date,

NumberofProjectsDone int);

insert into Executive values (1,'Harry','Harry1@gmail.com',1111111111,'2010-09-20',0);

insert into Executive values (2,'Sam','Sam2@gmail.com',1000000000,'2009-08-07',1);

insert into Executive values (3,'Rocky','Rocky3@gmail.com',1000999000,'2010-09-25',0);

```
mysql> select * from executive;
```

Eid	Ename	Email	Contact	DOJ	NumberofProjectsDone
1	Harry	Harry1@gmail.com	1111111111	2010-09-20	0
2	Sam	Sam2@gmail.com	1000000000	2009-08-07	1
3	Rocky	Rocky3@gmail.com	1000999000	2010-09-25	0

3 rows in set (0.00 sec)

2. APPOINTMENT TABLE

This table stores the information for a Daily Appointment made by the Executive. Executives are referred to by their IDs. When an executive makes an Appointment, an appointment number(AppNo) is generated which acts as a primary key.

create table Appointment(

Eid int not null,

AppNo int primary key,
 Email varchar(20) not null,
 Time varchar(20),
 Date date,
 Foreign key (Eid) references Executive(Eid));

```
mysql> desc appointment;
```

Field	Type	Null	Key	Default	Extra
Eid	int(11)	NO	MUL	NULL	
AppNo	int(11)	NO	PRI	NULL	
Email	varchar(20)	NO		NULL	
Time	varchar(20)	YES		NULL	
Date	date	YES		NULL	

```
5 rows in set (0.00 sec)
```

3. LOE TABLE

This Table contains the List Of Engagements of the Executives.

create table LOE(

Eid int not null,

Day date,

Time varchar(20),

job varchar(30),

Duration varchar(30),

Foreign key (Eid) references Executive (Eid));

insert into LOE values (1,'2020-10-01','10:00','FINISH THE REPORT 5','50 MINUTES');

insert into LOE values (1,'2020-10-01','11:00','PROOF-READ THE REPORT 5','30 MINUTES');

insert into LOE values (1,'2020-10-01','11:30','MAIL THE REPORT 5','50 MINUTES');

```
mysql> select * from LOE;
```

Eid	Day	Time	job	Duration
1	2020-10-01	10:00	FINISH THE REPORT 5	50 MINUTES
1	2020-10-01	11:00	PROOF-READ THE REPORT 5	30 MINUTES
1	2020-10-01	11:30	MAIL THE REPORT 5	50 MINUTES

4. LEAVE TABLE

The record in this table is created when an Executive applies for a leave.

Create table L(

Ename varchar(20),

Eid int not null,

Start_date date,

Return_date date,

Reason varchar(70),

Foreign key (Eid) references Executive(Eid));

```
mysql> desc L;
```

Field	Type	Null	Key	Default	Extra
Ename	varchar(20)	YES		NULL	
Eid	int(11)	NO	MUL	NULL	
Start_date	date	YES		NULL	
Return_date	date	YES		NULL	
Reason	varchar(70)	YES		NULL	

5 rows in set (0.00 sec)

5. PROJECT TABLE

This table consists of the details of the projects the Executives have worked on.

Create table project(

P_ID int primary key,

P_name varchar(20),

Ename varchar(20),

Meetings_Scheduled int,

P_Status varchar(20));

insert into project values(171,'WebDev','Sam',2,'Completed');

```
mysql> select * from project;
+-----+-----+-----+-----+-----+
| P_ID | P_name | Ename | Meetings_Scheduled | P_Status |
+-----+-----+-----+-----+-----+
| 171 | WebDev | Sam | 2 | Completed |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

6. SECRETARY TABLE

This Table holds the information for all the secretaries assigned to the executives in the company.

Create table Sec(

Eid int not null,

S_Name varchar(20),

S_email varchar(30),

S_Contact varchar(10),

Foreign key(Eid) references Executive(Eid));

insert into Sec values(1,'Tom','Tom22@gmail.com','9812345666');

insert into Sec values(2,'Sara','SaraS@gmail.com','9811111111');

insert into Sec values(3,'Penny','PP@gmail.com','9811199991');

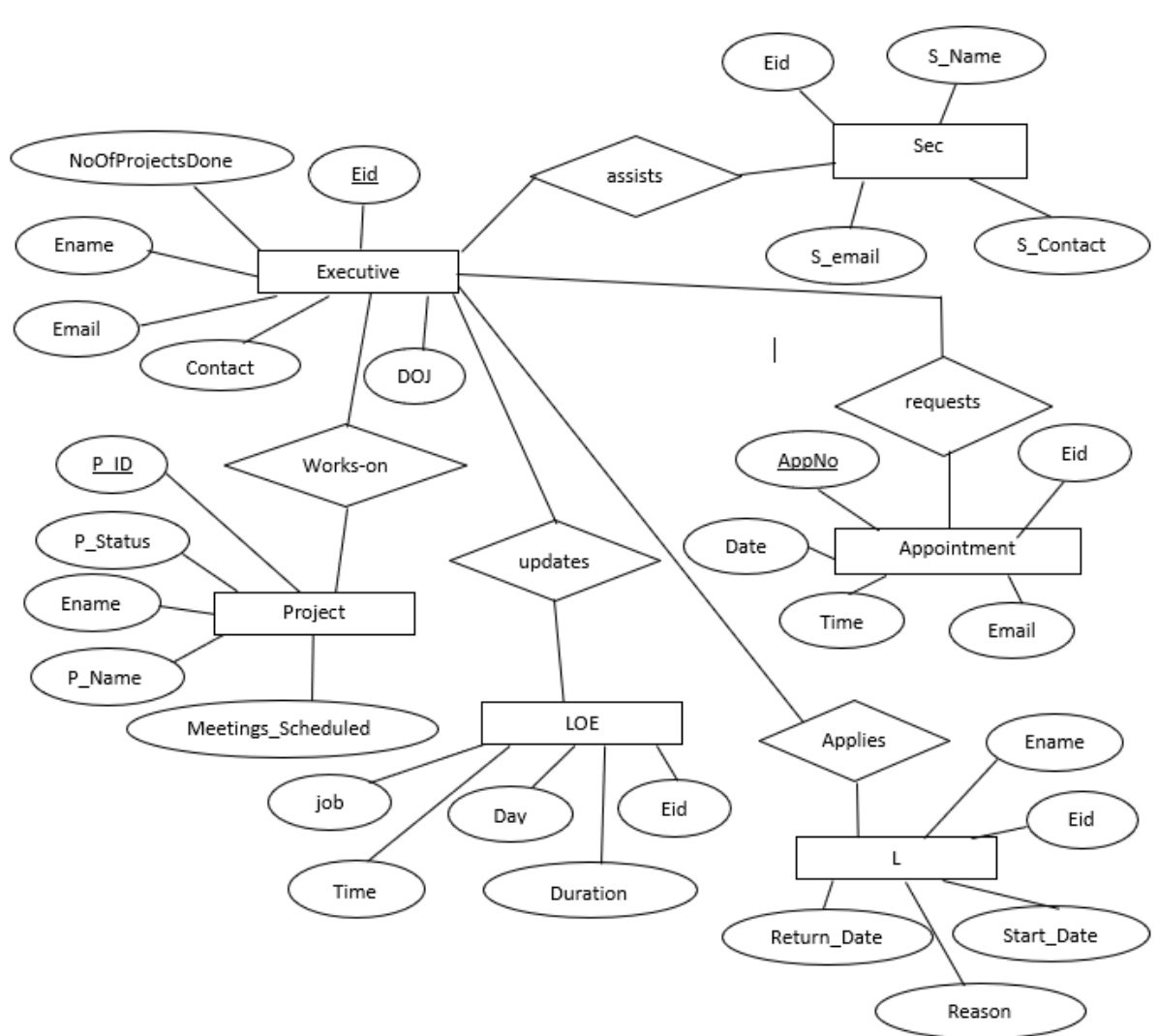
```
mysql> select * from Sec;
+-----+-----+-----+-----+
| Eid | S_Name | S_email | S_Contact |
+-----+-----+-----+-----+
| 1 | Tom | Tom22@gmail.com | 9812345666 |
| 2 | Sara | SaraS@gmail.com | 9811111111 |
| 3 | Penny | PP@gmail.com | 9811199991 |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> SHOW TABLES;
+-----+
| Tables_in_tms |
+-----+
| appointment |
| executive |
| l |
| loe |
| project |
| sec |
+-----+
6 rows in set (0.00 sec)
```

RELATIONAL DATABASE SCHEMA FOR CASE STUDY:

1. EXECUTIVE(EID, ENAME, EMAIL, CONTACT, DOJ, NOOFPROJECTSDONE)
2. APPOINTMENT(EID, APPNO, DATE, TIME, EMAIL)
3. LOE(EID, DAY, TIME, JOB, DURATION)
4. L(EID, ENAME, START_DATE, RETURN_DATE, REASON)
5. PROJECT(P_ID, P_NAME, P_STATUS, ENAME, MEETINGS_SCHEDULED)
6. SEC(EID, S_NAME, S_EMAIL, S_CONTACT)

E-R DIAGRAM



FRONT END :

ENTERING RANDOMN DETAILS :

Time Management Software

Username

Enter username

Email

Enter email

Employee ID

Enter EID

Contact Number

Enter Contact number

Submit

Time Management Software

Username

Sejal

Error message

Email

sejal4@hotmail.com

Error message

Employee ID

3

Error message

Contact Number

89716627829

Error message

Submit

ENTERING EXECUTIVE DETAILS:

Time Management Software

Username

Harry

Email

Harry1@gmail.com

Employee ID

1

Contact Number

111111111

Submit

MAKING AN APPOINTMENT:

You are now logged in

MAKE APPOINTMENTS

SCHEDULE PLANNER

PROJECTS UNDERTAKEN

USER DETAILS

LEAVE REQUEST

LOG OUT

ENTERING APPOINTMENT DETAILS:

Schedule an Appointment

Employee ID

2

Email

Sam2@gmail.com

Apoinment Date

23/09/2020

Time

11:00

Submit

BACK

LOG OUT

AFTER SUBMIT BUTTON IS CLICKED:

Schedule an Appointment

Employee ID

Enter Employee ID

Email

Enter email

Apoinment Date

Enter date

Time

Enter time

Submit

Request mail has been sent to the employee!

BACK

LOG OUT

Schedule an Appointment

Employee ID

2

Email

Sam2@gmail.com

Apoinment Date

23/09/2020

Time

11:00

Submit

BACK

LOG OUT

CORRESPONDING CHANGES IN THE DATABASE:

```
mysql> select * from appointment;
+-----+-----+-----+-----+-----+
| Eid | AppNo | Email           | Time | Date       |
+-----+-----+-----+-----+-----+
| 2   | 717   | Sam2@gmail.com | 11:00 | 2020-09-23 |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

SCHEDULE PLANNER:

LIST OF DAILY ENGAGEMENTS:

You are now logged in

MAKE APPOINTMENTS

SCHEDULE PLANNER

PROJECTS UNDERTAKEN

USER DETAILS

LEAVE REQUEST

LOG OUT

Tasks to do!!

DAY: 01/10/2020
TIME: 10:00
JOB : FINISH THE REPORT 5
DURATION: 50 MINUTES

Delete

DAY: 01/10/2020
TIME: 11:00
JOB : PROOF-READ THE REPORT 5
DURATION: 30 MINUTES

Delete

DAY: 01/10/2020
TIME: 11:30
JOB : MAIL THE REPORT 5
DURATION: 50 MINUTES

Delete

+NEW TASK

BACK

LOG OUT

AFTER DELETING A TASK:

Tasks to do!!

DAY: 01/10/2020
TIME: 11:00
JOB : PROOF-READ THE REPORT 5
DURATION: 30 MINUTES

Delete

DAY: 01/10/2020
TIME: 11:30
JOB : MAIL THE REPORT 5
DURATION: 50 MINUTES

Delete

Task deleted!

+NEW TASK

BACK

LOG OUT

ADDING A NEW TASK:

Add a New Task

Day

01/10/2020

Time

12:00

Duration

60 min

Job

Having a team lunch!

Submit

BACK

LOG OUT

AFTER ADDING A NEW TASK :

Tasks to do!!

DAY: 01/10/2020
TIME: 11:00
JOB : PROOF-READ THE REPORT 5
DURATION: 30 MINUTES

Delete

DAY: 01/10/2020
TIME: 11:30
JOB : MAIL THE REPORT 5
DURATION: 50 MINUTES

Delete

DAY: 01/10/2020
TIME: 12:00
JOB : HAVING A TEAM LUNCH!
DURATION: 60 MINUTES

Delete

Task added!

+NEW TASK

BACK

CORRESPONDING CHANGES IN THE DATABASE:

AFTER DELETION:

```
mysql> select * from LOE;
+-----+-----+-----+-----+-----+
| Eid | Day       | Time | job                                | Duration |
+-----+-----+-----+-----+-----+
| 1   | 2020-10-01 | 11:00 | PROOF-READ THE REPORT 5 | 30 MINUTES |
| 1   | 2020-10-01 | 11:30 | MAIL THE REPORT 5       | 50 MINUTES |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

AFTER ADDING A NEW TASK:

```
mysql> select * from LOE;
+-----+-----+-----+-----+-----+
| Eid | Day       | Time | job                                | Duration |
+-----+-----+-----+-----+-----+
| 1   | 2020-10-01 | 11:00 | PROOF-READ THE REPORT 5 | 30 MINUTES |
| 1   | 2020-10-01 | 11:30 | MAIL THE REPORT 5       | 50 MINUTES |
| 1   | 2020-10-01 | 12:00 | HAVING A TEAM LUNCH!    | 60 MINUTES |
+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

PROJECTS UNDERTAKEN:

THIS SHOWS THE PROJECTS DONE(IF ANY):

You are now logged in

MAKE APPOINTMENTS

SCHEDULE PLANNER

PROJECTS UNDERTAKEN

USER DETAILS

LEAVE REQUEST

LOG OUT

Projects done

No records found

BACK

LOG OUT

USER DETAILS :

You are now logged in

MAKE APPOINTMENTS

SCHEDULE PLANNER

PROJECTS UNDERTAKEN

USER DETAILS

LEAVE REQUEST

LOG OUT

SHOWS THE DETAILS OF THE EXECUTIVE:

Your Details

E-ID : 1

NAME : HARRY

EMAIL : HARRY1@GMAIL.COM

CONTACT NUMBER: 1111111111

DATE OF JOINING : 2010-09-20

NUMBER OF PROJECTS : 0

BACK

LOG OUT

LEAVE REQUEST:

You are now logged in

MAKE APPOINTMENTS

SCHEDULE PLANNER

PROJECTS UNDERTAKEN

USER DETAILS

LEAVE REQUEST

LOG OUT

MAKING A LEAVE REQUEST:

Make a Leave Request

Enter E-ID

1

Reason

Have to attend a friend's wedding.

From Date

22/09/2020

To Date

26/09/2020

Submit

BACK

LOG OUT

AFTER THE REQUEST IS MADE:

Make a Leave Request

Enter E-ID

Reason

From Date

To Date

Submit

Leave Request sent!

BACK

LOG OUT

CORRESPONDING CHANGES IN THE DATABASE :

```
mysql> select * from L;
+-----+-----+-----+-----+-----+
| Ename | Eid | Start_date | Return_date | Reason |
+-----+-----+-----+-----+-----+
| Harry | 1 | 2020-09-22 | 2020-09-26 | Have to attend a friends wedding. |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

LOGOUT :

You are now logged in

MAKE APPOINTMENTS

SCHEDULE PLANNER

PROJECTS UNDERTAKEN

USER DETAILS

LEAVE REQUEST

LOG OUT

REDIRECTS BACK TO EMPTY FORM:

Time Management Software

Username

Email

Employee ID

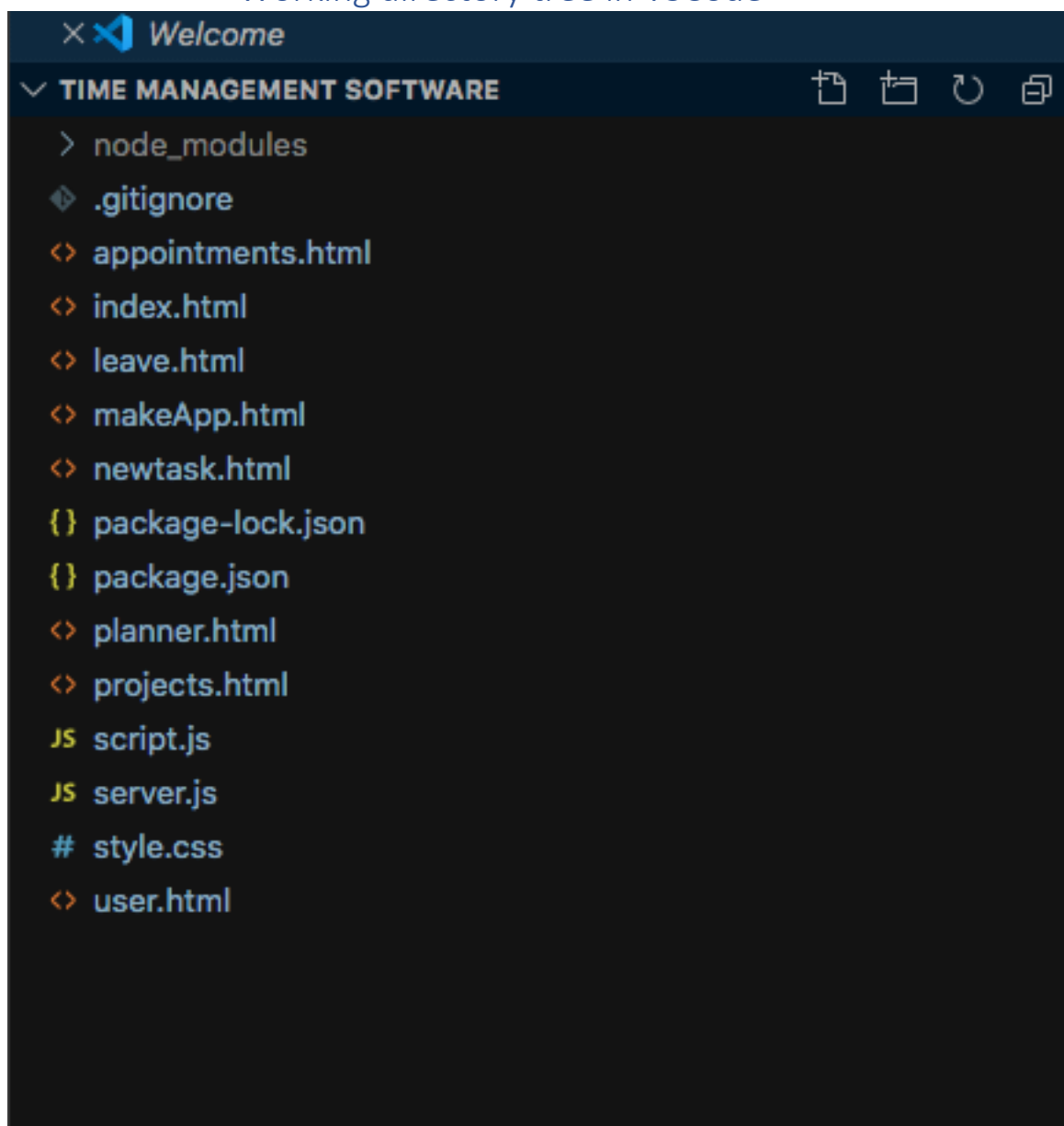
Contact Number

Submit

SOURCE CODE

HTML and CSS have been used to create the interactive UI. There are six HTML pages as seen below, all of which are linked to one style.css file which provides the design for TMS. Moreover, run-time interaction of the browser DOM is utilised to print the user-friendly messages in the script.js file which provides functionality to all the HTML pages. Server.js file finally connects the front-end to the 'TMS' MySQL database using express.js dependency provided to us by node.js framework, all of which have been downloaded into the package.json file using npm register. Due to the very lengthy files in the node-modules directory, a snapshot of the working directory tree of our project developed using Visual Studio Code is attached below. However, the main codes containing the design of the UI and connectivity to the database are included.

Working directory tree in VSCode



Index.html:

```
<!DOCTYPE html>

<html lang="en">
<head>
<meta charset="UTF-8" />
<meta name="viewport" content="width=device-width, initial-scale=1.0" />
<meta http-equiv="X-UA-Compatible" content="ie=edge" />
<link rel="stylesheet" href="style.css" />
<title>Welcome to Time Management Software</title>
</head>

<body>
<div class="container">
<form method="POST" id="form" class="form" method="post" action="/check-login">
<h2> Time Management Software </h2>
<div class="form-control">
<label for="username">Username</label>
<input type="text" id="username" placeholder="Enter username" />
<div class="error-message">Error message</div>
</div>
<div class="form-control">
<label for="email">Email</label>
<input type="text" id="email" placeholder="Enter email" />
<div class="error-message">Error message</div>
</div>
<div class="form-control">
<label for="E-ID">Employee ID</label>
<input type="number" id="E-ID" placeholder="Enter EID" />
<div class="error-message">Error message</div>
</div>
<div class="form-control">
<label for="Contact">Contact Number</label>
<input type="number" id="number" placeholder="Enter Contact number" />
<div class="error-message">Error message</div>
</div>
<button type="submit" value="check-login">Submit</button>
</form>
<div class="error-message">Error message</div>
</div>

</body>

</html>
```

makeapp.html:

```
<!DOCTYPE html>

<html lang="en">
<head>
<meta charset="UTF-8" />
<meta name="viewport" content="width=device-width, initial-scale=1.0" />
<meta http-equiv="X-UA-Compatible" content="ie=edge" />
<link rel="stylesheet" href="style.css" />
<title>Welcome to Time Management Software</title>
</head>

<body>
<div class="container">

    <h2>You are now logged in</h2>

    <div class="button"><a href="/appointments.html">Make Appointments</a></div>

    <div class="button"><a href="/planner.html">Schedule Planner</a></div>

    <div class="button"><a href="/projects.html">Projects Undertaken</a></div>

    <div class="button"><a href="/user.html">User Details</a></div>

    <div class="button"><a href="/leave.html">Leave Request</a></div>

    <div class="button"><a href="/index.html">Log Out</a></div>

</div>

<script src="script.js"></script>

</body>

</html>
```

Appointments.html

```
<!DOCTYPE html>

<html lang="en">
<head>

    <meta charset="UTF-8" />

    <meta name="viewport" content="width=device-width, initial-scale=1.0" />

    <meta http-equiv="X-UA-Compatible" content="ie=edge" />

    <link rel="stylesheet" href="style.css" />

    <title>Form Validator</title>

</head>
```

```
<body>

  <div class="container">

    <h2>Schedule an Appointment</h2>

    <form id="form" class="form" method="POST" action="submit">

      <div class="form-control">

        <label for="E-ID">Employee ID</label>

        <input type="number" id="E-ID" placeholder="Enter Employee ID" />

      </div>

      <div class="form-control">

        <label for="email">Email</label>

        <input type="text" id="email" placeholder="Enter email" />

      </div>

      <div class="form-control">

        <label for="date">Apointment Date</label>

        <input type="date" id="date" placeholder="Enter date" />

      </div>

      <div class="form-control">

        <label for="Time">Time</label>

        <input

          type="time"

          id="time"

          placeholder="Enter time"

        />

      </div>

      <button type="submit">Submit</button>

    </form>

    <div class="button" > <a href="/makeApp.html">Back</a> </div>

    <div class="button" > <a href="/index.html">Log Out</a> </div>

  </div>

</body>

</html>
```

User.html:

```
<!DOCTYPE html>

<html lang="en">

  <head>

    <meta charset="UTF-8" />

    <meta name="viewport" content="width=device-width, initial-scale=1.0" />

    <meta http-equiv="X-UA-Compatible" content="ie=edge" />

    <link rel="stylesheet" href="style.css" />

    <title>Welcome to Time Management Software</title>

  </head>

  <body>

    <div class="container">

      <h2>Your Details</h2>

      <div class="details">E-ID : <span class="value"> </span> </div>

      <div class="details">Name : <span class="value"> </span> </div>

      <div class="details">Email : <span class="value"> </span> </div>

      <div class="details">Contact Number: <span class="value"> </span> </div>

      <div class="details">Date of Joining : <span class="value"> </span> </div>

      <div class="details">Number of projects : <span class="value"> </span> </div>

      <div class="button"> <a href="/makeApp.html">Back</a> </div>

      <div class="button"> <a href="/index.html">Log Out</a> </div>

    </div>

  </body>

</html>
```

Leave.html

```
<!DOCTYPE html>

<html lang="en">

  <head>
<meta charset="UTF-8" />
<meta name="viewport" content="width=device-width, initial-scale=1.0" />
<meta http-equiv="X-UA-Compatible" content="ie=edge" />
<link rel="stylesheet" href="style.css" />
<title>Welcome to Time Management Software</title>
</head>

  <body>
<div class="container">
<form id="form" class="form" action="/submit" method="POST" >
<h2>Make a Leave Request</h2>

    <div class="form-control">

<label for="E-ID">Enter E-ID</label>

      <input type="number" id="E-ID" placeholder="Enter E-ID" />

    </div>

    <div class="form-control">

<label for="Reason">Reason</label>

      <textarea for="Reason" placeholder="enter your reason"></textarea>

    </div>

    <div class="form-control">

<label for="from-date">From Date</label>

      <input type="date" id="from-date" placeholder="Enter the from date" />

    </div>

    <div class="form-control">

<label for="to-date">To Date</label>

      <input type="date" id="to-date" placeholder="Enter to date" />

    </div>

    <button type="submit">Submit</button>

  </form>

<label class="error-message" >Leave Request sent!</label>
<div class="button"><a href="/makeApp.html">Back</a> </div>
<div class="button"><a href="/index.html">Log Out</a> </div>
</div>
</body>
</html>
```

Planner.html

```
<!DOCTYPE html>

<html lang="en">

  <head>

    <meta charset="UTF-8" />

    <meta name="viewport" content="width=device-width, initial-scale=1.0" />

    <meta http-equiv="X-UA-Compatible" content="ie=edge" />

    <link rel="stylesheet" href="style.css" />

    <title>Welcome to Time Management Software</title>

  </head>

  <body>

    <div class="container">

      <h2>Tasks to do!!</h2>

      <div class="tasks">

        <div class="detail">Day: <span class="value"> </span> </div>

        <div class="detail">Time: <span class="value"> </span> </div>

        <div class="detail">Job : <span class="value"> </span> </div>

        <div class="detail">Duration: <span class="value"> </span> </div>

        <button> Delete </button>

      </div>

      <label class="error-message">Task deleted!</label>

      <div class="button"> <a href="/newtask.html">+New Task</a> </div>

      <div class="button"><a href="/makeApp.html">Back</a></div>

      <div class="button"><a href="/index.html">Log Out</a></div>

    </div>

  </body>

</html>
```

NewTask.html

```
<!DOCTYPE html>

<html lang="en">
<head>
<meta charset="UTF-8" />
<meta name="viewport" content="width=device-width, initial-scale=1.0" />
<meta http-equiv="X-UA-Compatible" content="ie=edge" />
<link rel="stylesheet" href="style.css" />
<title>Welcome to Time Management Software</title> </head>
<body>
<div class="container">

    <form id="form" class="form" action="/submit" method="POST">

        <h2>Add a New Task</h2>

        <div class="form-control">

            <label for="day">Day</label>

            <input type="day" id="day" placeholder="Enter the day" />

        </div>

        <div class="form-control">

            <label for="time">Time</label>

            <input type="time" id="time" placeholder="Enter the time" />

        </div>

        <div class="form-control">

            <label for="duration">Duration</label>

            <input type="text" id="duration" placeholder="Enter the duration" />

        </div>

        <div class="form-control">

            <label for="Job">Job</label>

            <textarea id="Job" placeholder="Enter the task" ></textarea>

        </div>

        <button type="submit">Submit</button>

    </form>

    <div class="button"><a href="/planner.html">Back</a> </div>
    <div class="button"> <a href="/index.html">Log Out</a> </div>

</div>

</body>

</html>
```

Style.css

```
@import url('https://fonts.googleapis.com/css?family=Open+Sans&display=swap');

* { box-sizing: border-box;
}

body { background-color: #f9fafb;

font-family: 'Open Sans', sans-serif;

display: flex;

align-items: center;

justify-content: center;

min-height: 100vh;

margin: 0; }

.container { background-color: #fff;

border-radius: 5px;

box-shadow: 0 2px 10px rgba(0, 0, 0, 0.3);

width: 400px; }

h2 { text-align: center;

margin: 10px 0 20px;

color: black;

text-emphasis: bold; }

.form { padding: 30px 40px; }

.form-control { margin-bottom: 10px;

padding-bottom: 20px;

position: relative; }

.form-control label { color: #777;

display: block;

margin-bottom: 5px; }

.form-control input { border: 2px solid #f0f0f0;

border-radius: 4px;

display: block;

width: 100%;

padding: 10px;

font-size: 14px; }
```



```
.error-message { color: red;
position: absolute;
bottom: 0;
left: 0;
visibility: hidden; }
.showerror { visibility: visible; }
a { text-decoration: none;
color: white;
text-transform: uppercase; }
.form button, a:link, a:visited { cursor: pointer;
background-color: #3498db;
border: 2px solid #3498db;
border-radius: 4px;
color: #fff;
display: block;
font-size: 16px;
padding: 10px;
margin-top: 20px;
width: 100%; }
a:hover, button:hover { background-color: green; }
.button { margin: 0 20% 10px;
padding: 0;
display: flex;
justify-content: center;
align-items: center; }
.details, .tasks { text-shadow: papayawhip;
text-transform: uppercase;
font-size: 18;
margin: 40px;
background-color: powderblue;
height: 10%; }
.calcpro { margin: 0 auto; }
```

Server.js

```
/**
 * Module dependencies.
 */
var express = require('express')
, routes = require('./routes')
, user = require('./routes/user')
, http = require('http')
, path = require('path');
// var methodOverride = require('method-override');
var session = require('express-session');
var app = express();
var mysql = require('mysql');
var bodyParser = require("body-parser");
var connection = mysql.createConnection({

  host : 'localhost',
  user : 'root',
  password : "",
  database : 'tms'

});
connection.connect();
global.db = connection;
app.set('port', process.env.PORT || 8080);
app.set('views', __dirname + '/views');
app.set('view engine', 'ejs');
app.use(bodyParser.urlencoded({ extended: false }));
app.use(bodyParser.json());
app.use(express.static(path.join(__dirname, 'public')));
app.use(session({

  secret: 'keyboard cat',

  resave: false,

  saveUninitialized: true,

  cookie: { maxAge: 60000 }

})))
// development only
app.get("/", routes.index); // call for main index page
app.get('/submit', user.makeApp);
app.post('/appointment', user.sendMail);
app.get('/task', routes.submit);
app.post('/login', user.login);
app.get('/home/dashboard', user.dashboard);
app.get('/home/logout', user.logout);
app.get('/home/profile', user.profile);
// Middleware
app.listen(8080)
```

SQL QUERIES:

1.TO FIND THE EXECUTIVES WHO HAVE COMPLETED A PROJECT

```
mysql> Select Ename from Project where P_Status='Completed';
+-----+
| Ename |
+-----+
| Sam   |
+-----+
1 row in set (0.00 sec)
```

2.TO FIND THE EXECUTIVES WHO JOINED AFTER 1ST JAN 2010

```
mysql> Select * from executive where DOJ>='2010-01-01';
+-----+-----+-----+-----+-----+-----+
| Eid | Ename | Email          | Contact | DOJ       | NumberofProjectsDone |
+-----+-----+-----+-----+-----+-----+
| 1   | Harry | Harry1@gmail.com | 111111111 | 2010-09-20 | 0 |
| 3   | Rocky | Rocky3@gmail.com | 1000999000 | 2010-09-25 | 0 |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.99 sec)
```

3.TO FIND THE SECRETARY DETAILS OF THE EXECUTIVE WITH ID=3

```
mysql> Select S_name,S_email from sec where Eid=3;
+-----+-----+
| S_name | S_email |
+-----+-----+
| Penny  | PP@gmail.com |
+-----+-----+
1 row in set (0.10 sec)
```

4.TO FIND THE JOB TO BE DONE BY AN EXECUTIVE AT 11:00

```
mysql> SELECT JOB FROM LOE WHERE TIME='11:00';
+-----+
| JOB |
+-----+
| PROOF-READ THE REPORT 5 |
+-----+
1 row in set (0.00 sec)
```

6. FIND THE CONTACT AND NAME OF THE SECRETARY CONTAINING 'A'

```
mysql> SELECT S_NAME,S_CONTACT FROM SEC WHERE S_NAME LIKE "%A%";
+-----+-----+
| S_NAME | S_CONTACT |
+-----+-----+
| Sara   | 9811111111 |
+-----+-----+
```

7. FIND THE JOB WHICH TAKES MAXIMUM TIME BY THE EMPLOYEE WITH EID=1

```
mysql> select job,MAX(duration) as MD from LOE where Eid=1;
+-----+-----+
| job                | MD                |
+-----+-----+
| PROOF-READ THE REPORT 5 | 60 MINUTES      |
+-----+-----+
1 row in set (0.03 sec)
```

8.TO FIND THE NUMBER OF LEAVE REQUESTS MADE BY EXECUTIVE WITH EID=1

```
mysql> SELECT COUNT(ENAME) FROM L WHERE EID=1;
+-----+
| COUNT(ENAME) |
+-----+
| 1            |
+-----+
1 row in set (0.00 sec)
```

9. TO FIND THE TASKS PENDING BY AN EXECUTIVE WITH EID=1

```
mysql> SELECT JOB FROM LOE WHERE EID=1;
+-----+
| JOB                |
+-----+
| PROOF-READ THE REPORT 5 |
| MAIL THE REPORT 5      |
| HAVING A TEAM LUNCH!   |
+-----+
3 rows in set (0.00 sec)
```

10.TO FIND THE NUMBER OF EXECUTIVES IN THE COMPANY

```
mysql> SELECT COUNT(EID) FROM EXECUTIVE;
+-----+
| COUNT(EID) |
+-----+
| 3          |
+-----+
1 row in set (0.00 sec)
```