INSTITUTE FOR ADVANCED
COMPUTING AND SOFTWARE
DEVELOPMENT AKURDI, PUNE

Documentation On

"PERSONAL PROJECT MANAGEMENT SYSTEM"

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1. Introduction

To increase an efficiency of a product, nowadays many development companies are using different project management systems. A company may run a number of projects at a time, and requires input from a number of individuals, or teams for a multi level development plan, whereby a good project management system is needed.

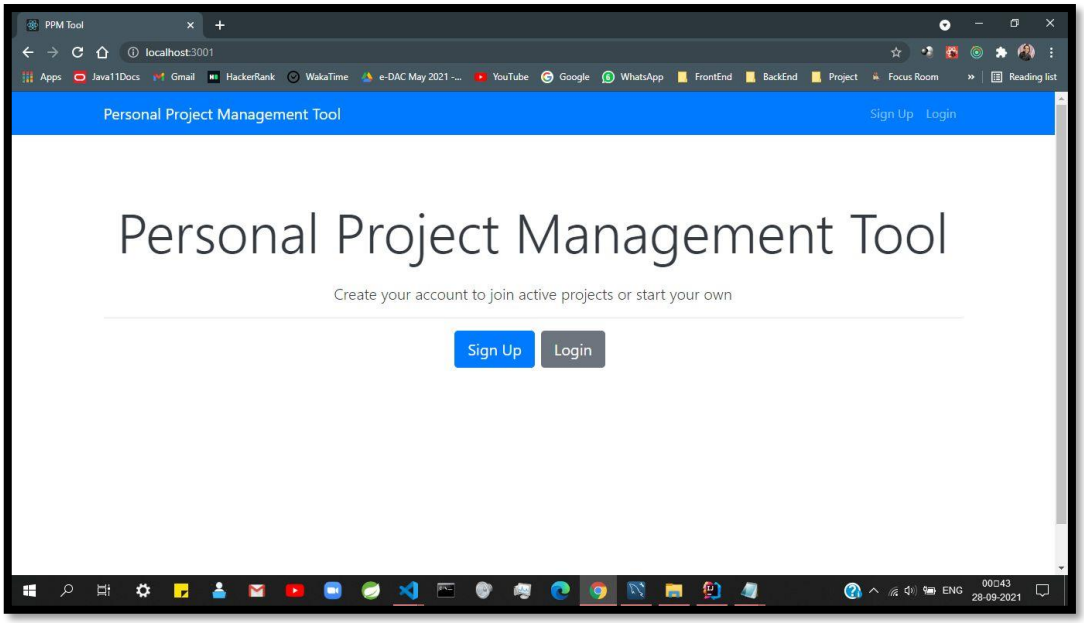
Project management systems represent a rapidly growing technology in IT industry. As the number of users, who utilize project management applications continues to grow, web based project management systems enter a critical role in a multitude of companies. Thus, a proper project management system plays a distinctive part in ensuring reliable, robust and high quality web applications for customers. Developing a project management system and showing how, in turns, it helps users to handle projects.

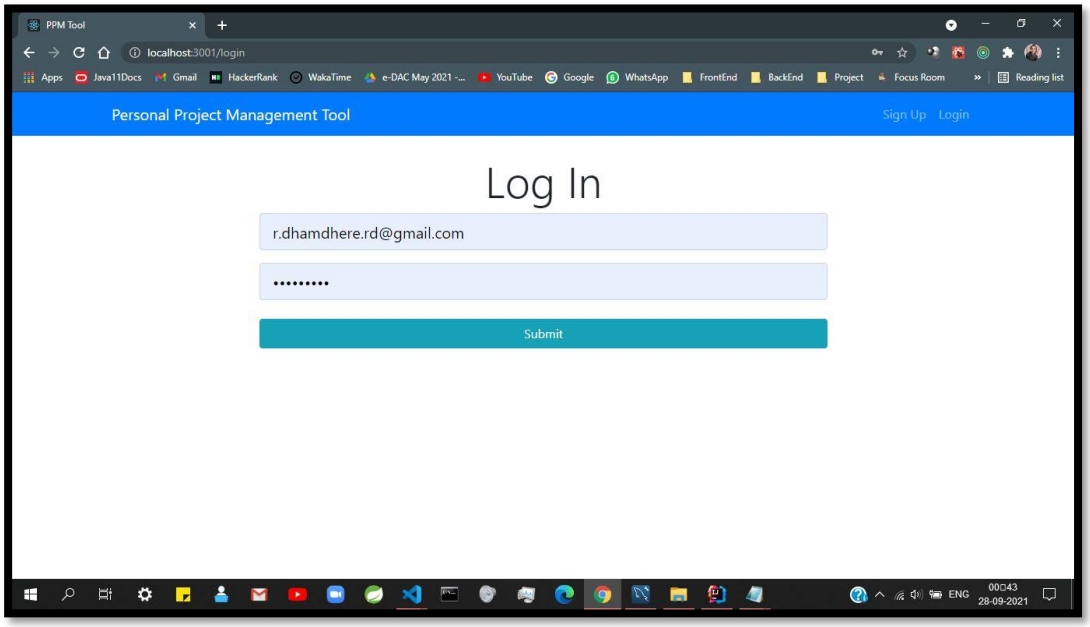
Document Purpose

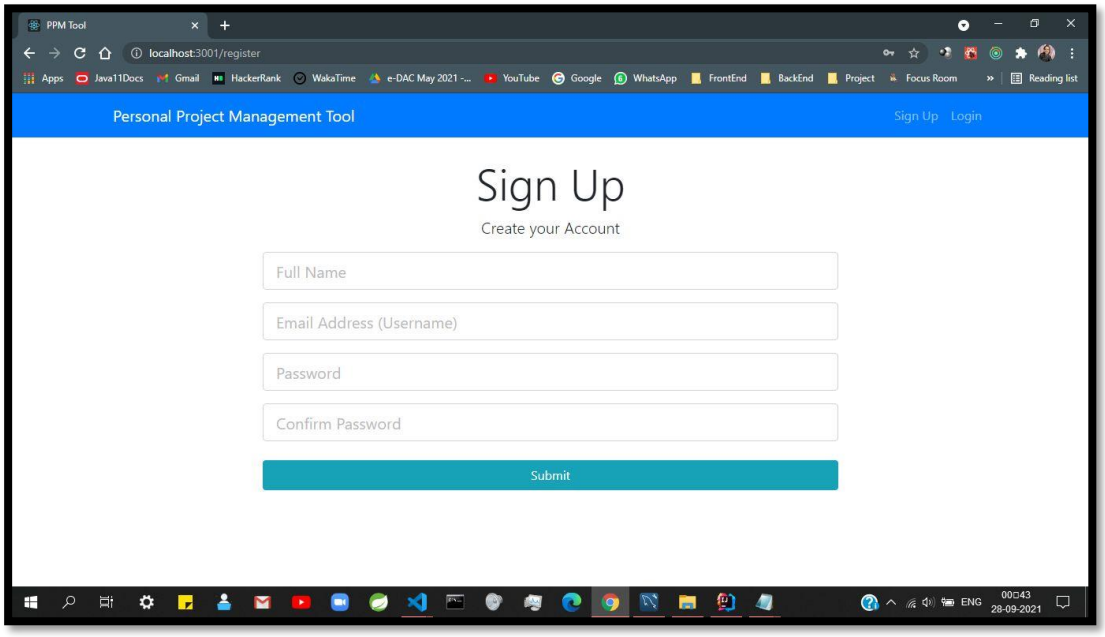
The main purpose to develop this project is to manage all the activities of the project development.
It manages all the project management, Task assignment, login management etc.

Login Management

One user can login at one time. Accessing your account is as easy as entering your username and password on the login screen or clicking one of our Single Sign-On options.


PPM Tool
localhost:3001
Personal Project Management Tool
Sign Up
Login
Personal Project Management Tool
Create your account to join active projects or start your own
Sign Up
Login

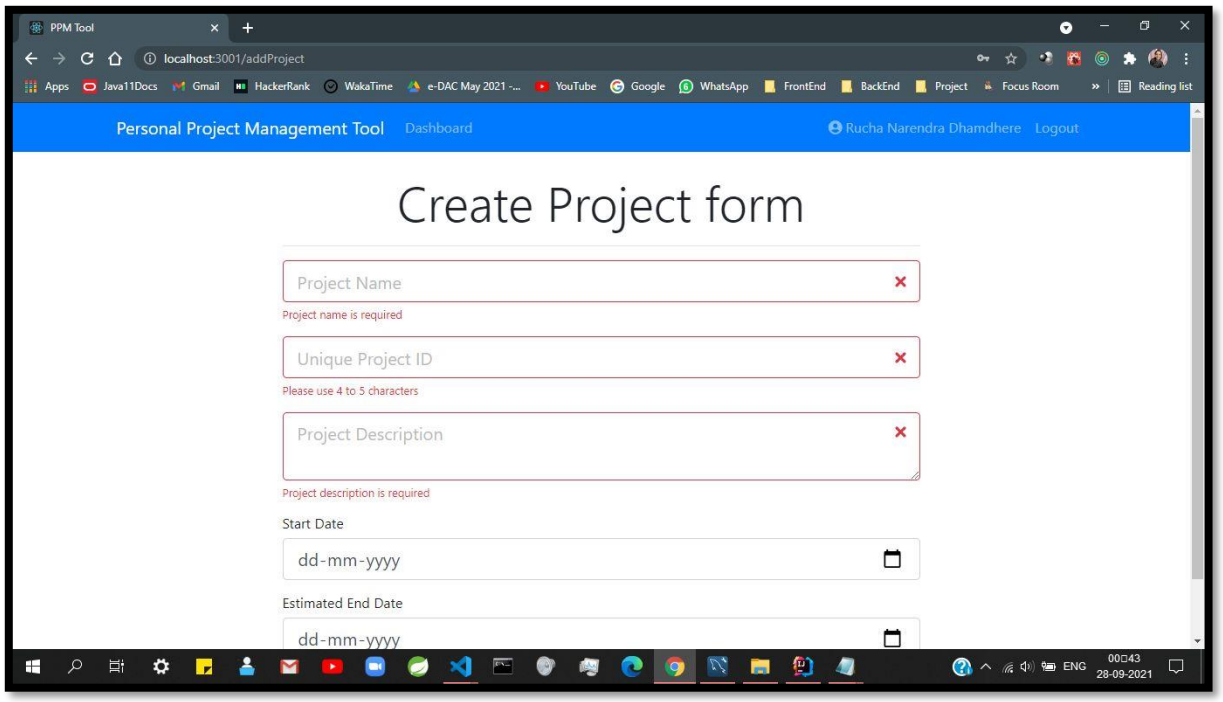

PPM Tool
localhost:3001/login
Personal Project Management Tool
Sign Up
Login
Log In
r.dhamdhere.rd@gmail.com
Submit

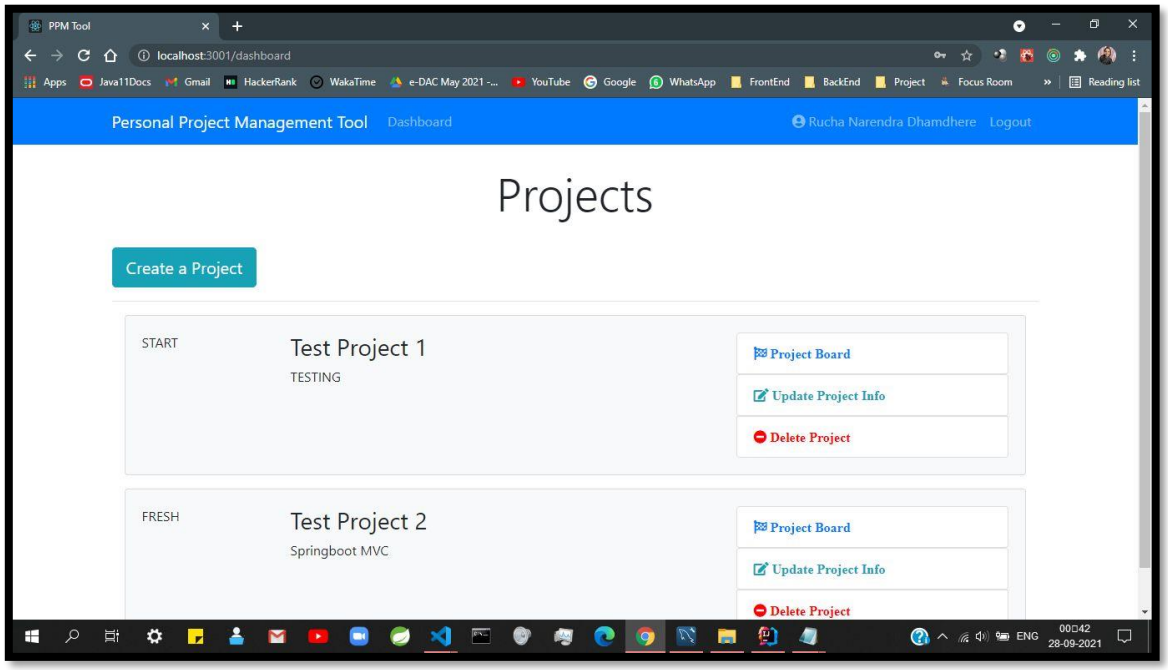

PPM Tool
localhost:3001/register
Personal Project Management Tool
Sign Up
Login
Sign Up
Create your Account
Full Name
Email Address (Username)
Password
Confirm Password
Submit

Project management

Project management is the process of planning, scheduling, resource management, requirement analysis, designing and testing to achieve project goals and objectives. Without project management it is difficult to complete projects in given time. Therefore, project management is required to remove such barriers in project development and to achieve specific goals.

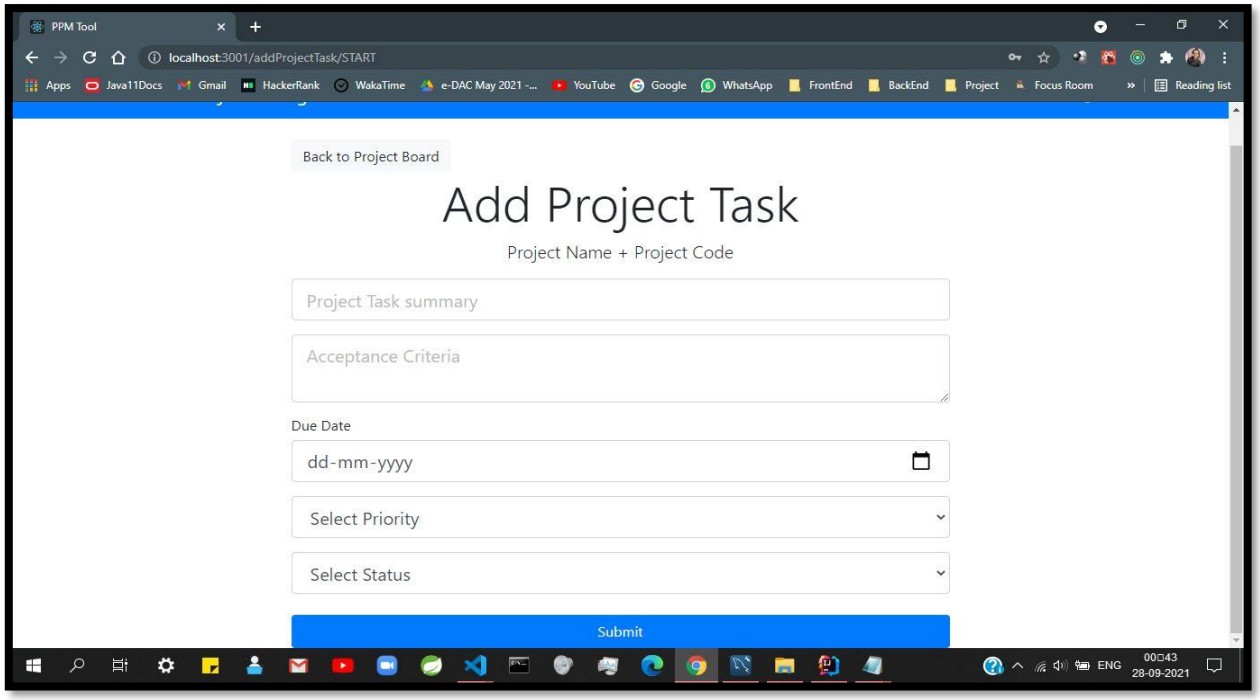
You can add different projects and assign them different status.

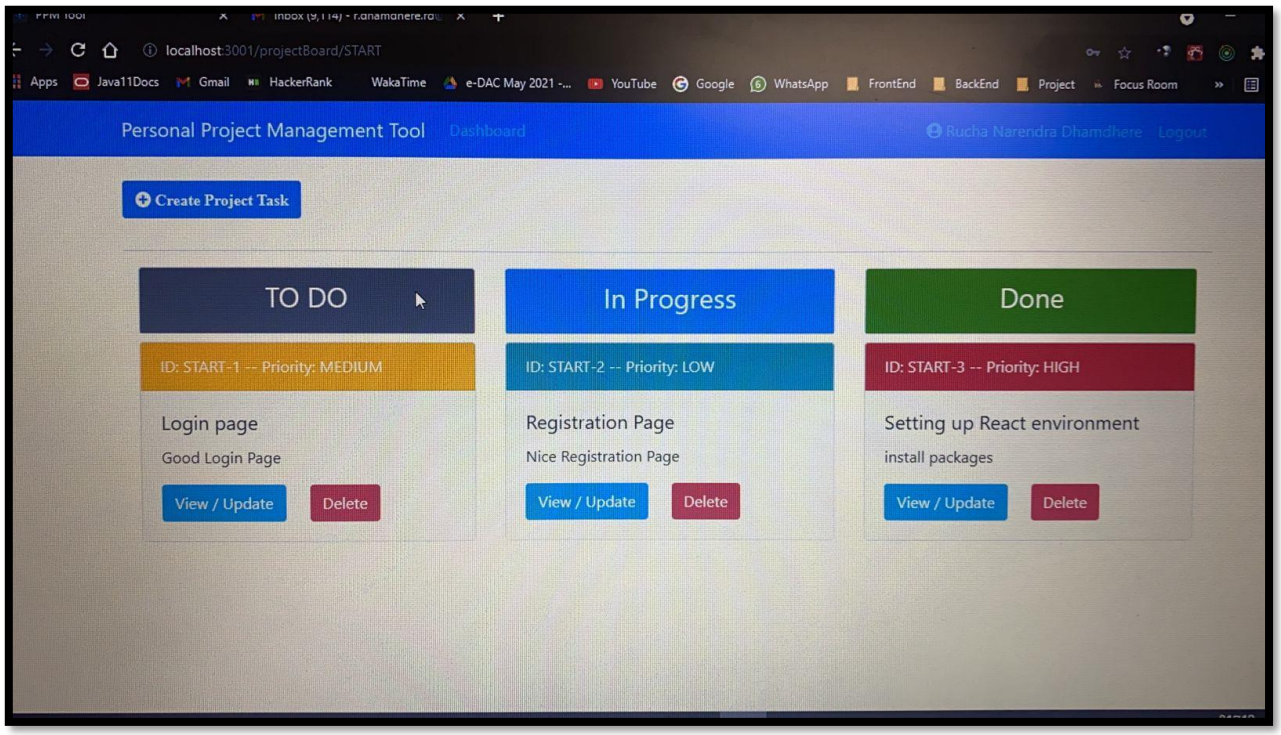




Task assignment

When you use task assignment, you assign activitiy to a project. Here we are going to assign specific task like to do, in progress, done to specific project.You can also view/update project information, delete project.





Problem Statement

Existing system for a project is based on our traditional way keeping records and details on paper and registers. Access of these details and papers are not granted to common member in absence of the authority. It is hard to manage all the project system with pen and paper. It gets really hard to maintain the records and then keep track of past tasks. Hence this system is proposed to overcome the flaws of the existing system and giving power to the person so that he/she will be able to manage the project easily on personal level.

Scope

This project traverses a lot of areas ranging from business concept to personal level, and required to perform several researches to be able to achieve the project objectives. The areacovers include:

- General customers as well as the admin itself can will be able to use the system effectively for project management.
- REACT
- J2EE Technology used for the development of the application. Java 2 Enterprise Edition is a programming platform java platform for developing and running distributed java applications.
- HTML: Markup Language used for creating web pages.
- MySQL

The objective for collaboration has been: getting thing done faster, cheaper and better by applying their common knowledge, bringing together a selection of resources and attainments in a project.

Aims & Objectives

In this project, we have build a Personal Project Management tool where the user can track his/her performance on multiple project at one place. This increases productivity. We have build our REST API's with spring boot 2.0 for curd operations. We created our frontend using REACT JS and Bootstrap. REDUX and Thunk to manage state of application in frontend. We secured our application using JWT tokens.

Specific goals are: -

- To produce a personal project management system that allow the user to add project and project realted tasks to it.
- To ease user by providing different tasks to it.
- To ease user to help him in his work to add and track tasks efficiently

Overall Description

For consuming necessary time, keeping all troubles less, and to organize all documents into one place and most importantly, to keep track of projects that are in production for customers or for keeping an eye on errors or mistakes that occur during the work process, then a good web based project management system was under consideration

Benefits of Personal Project Management System

- This online personal project management system solution is fully functional and flexible.
- It is very easy to use.
- This online personal project management system helps on personal level as well as business level by standardizing the procedures.
- It saves a lot of time and work.
- Eco-friendly: The monitoring of the personal management and the overall business becomes easy and includes the least of paper work.
- The application acts as an office that is open 24/7.
- It increases the efficiency of the management at offering quality services to theusers.
- It provides custom features development and support with the application.

System Design

Use Case Diagram

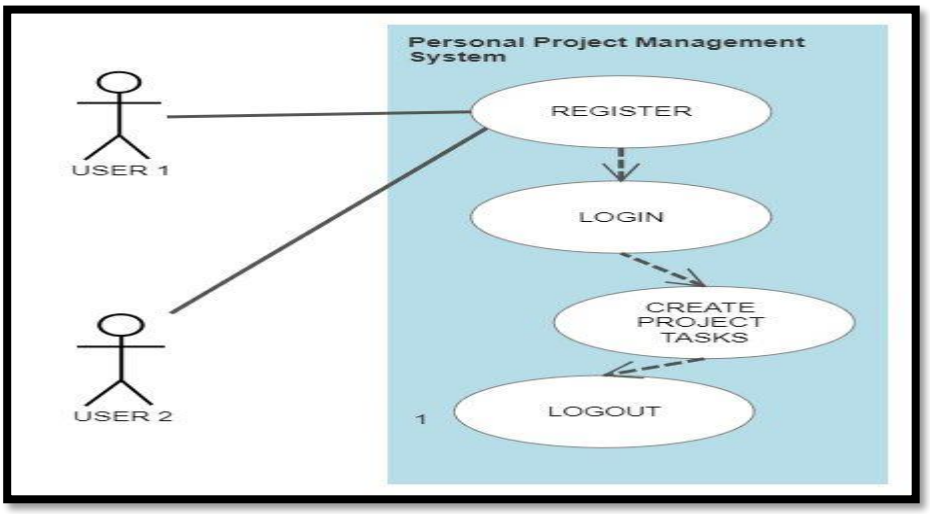


Figure 10: Use CaseDiagram

ER Diagram

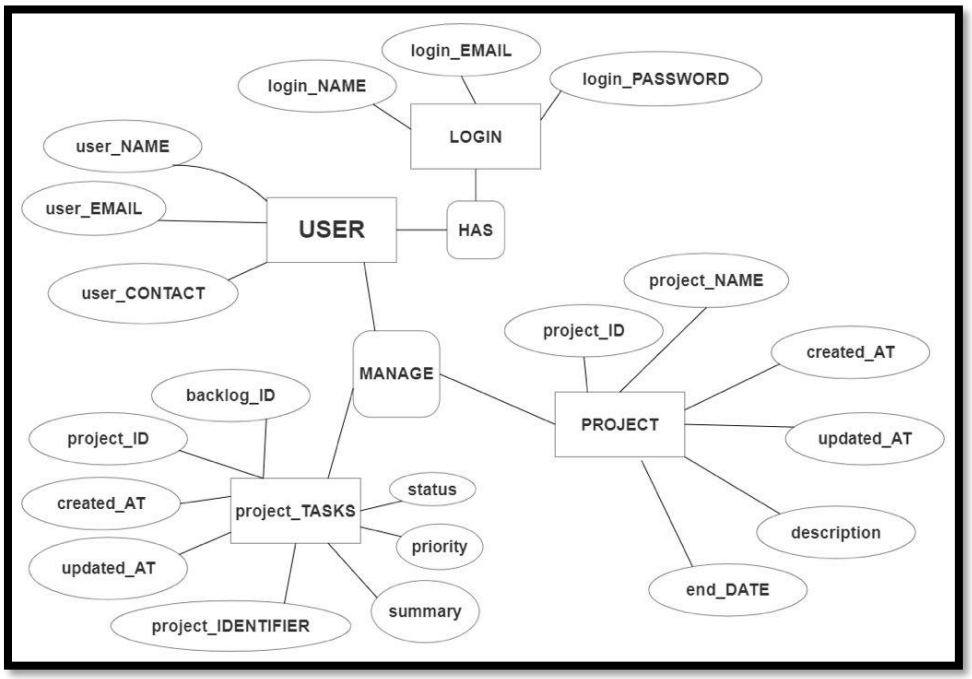
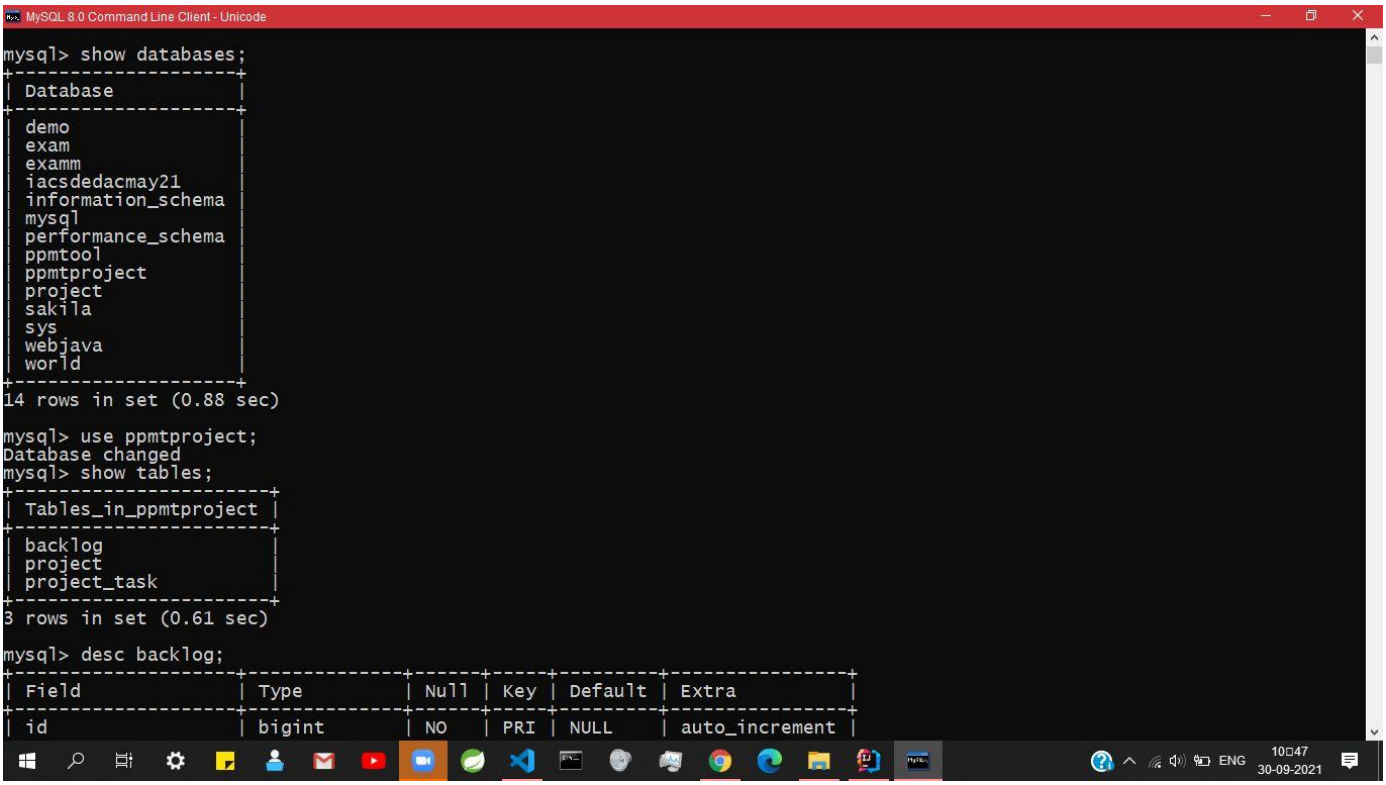


Figure 11: ER Diagram

DATABASE:

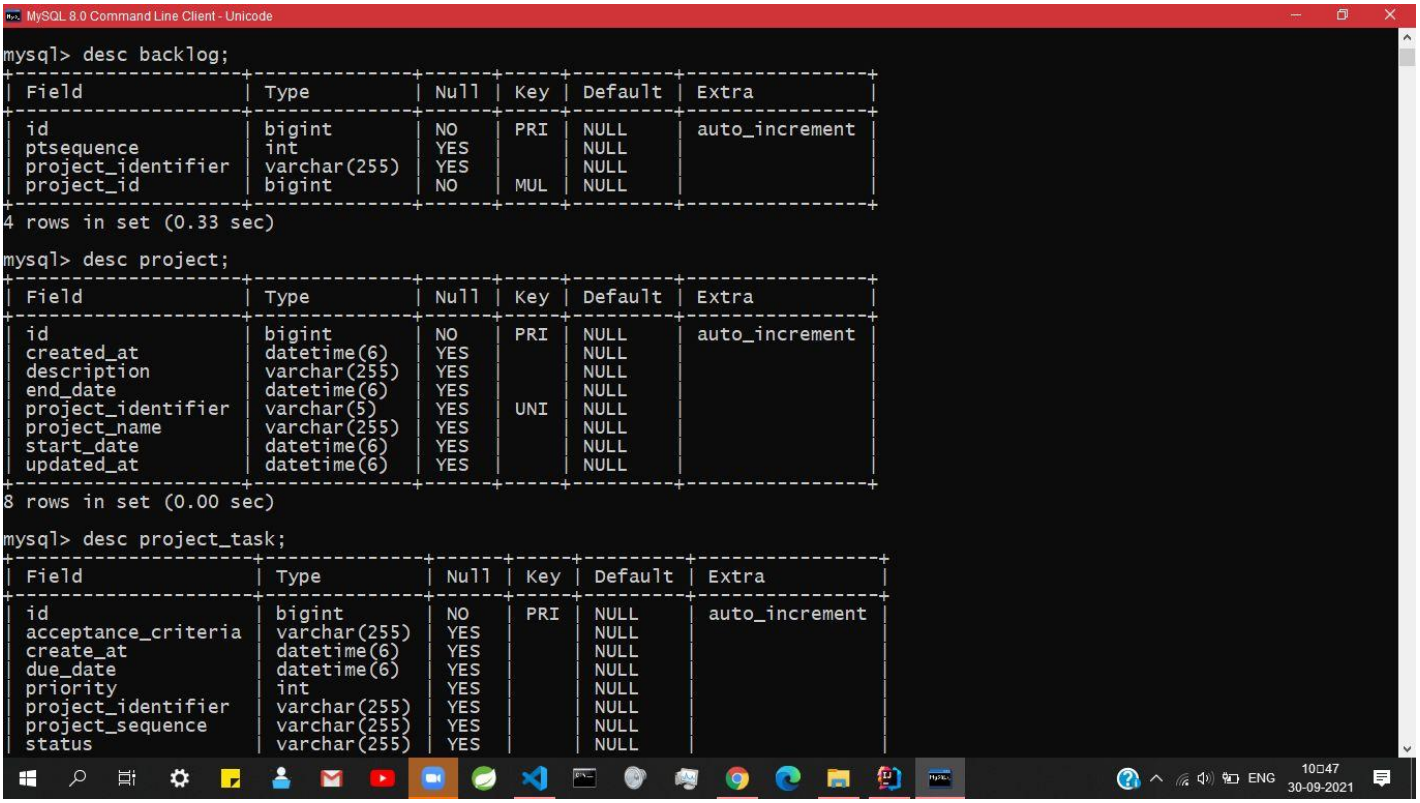


```
MySQL 8.0 Command Line Client - Unicode

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| demo               |
| exam               |
| examm              |
| iacsdedacmay21     |
| information_schema |
| mysql              |
| performance_schema |
| ppmtool            |
| ppmtproject        |
| project            |
| sakila             |
| sys                |
| webjava            |
| world              |
+--------------------+
14 rows in set (0.88 sec)

mysql> use ppmtproject;
Database changed
mysql> show tables;
+-----------------------+
| Tables_in_ppmtproject |
+-----------------------+
| backlog               |
| project               |
| project_task          |
+-----------------------+
3 rows in set (0.61 sec)

mysql> desc backlog;
+--------------------+--------------+------+-----+---------+----------------+
| Field              | Type         | Null | Key | Default | Extra          |
+--------------------+--------------+------+-----+---------+----------------+
| id                 | bigint       | NO   | PRI | NULL    | auto_increment |
```

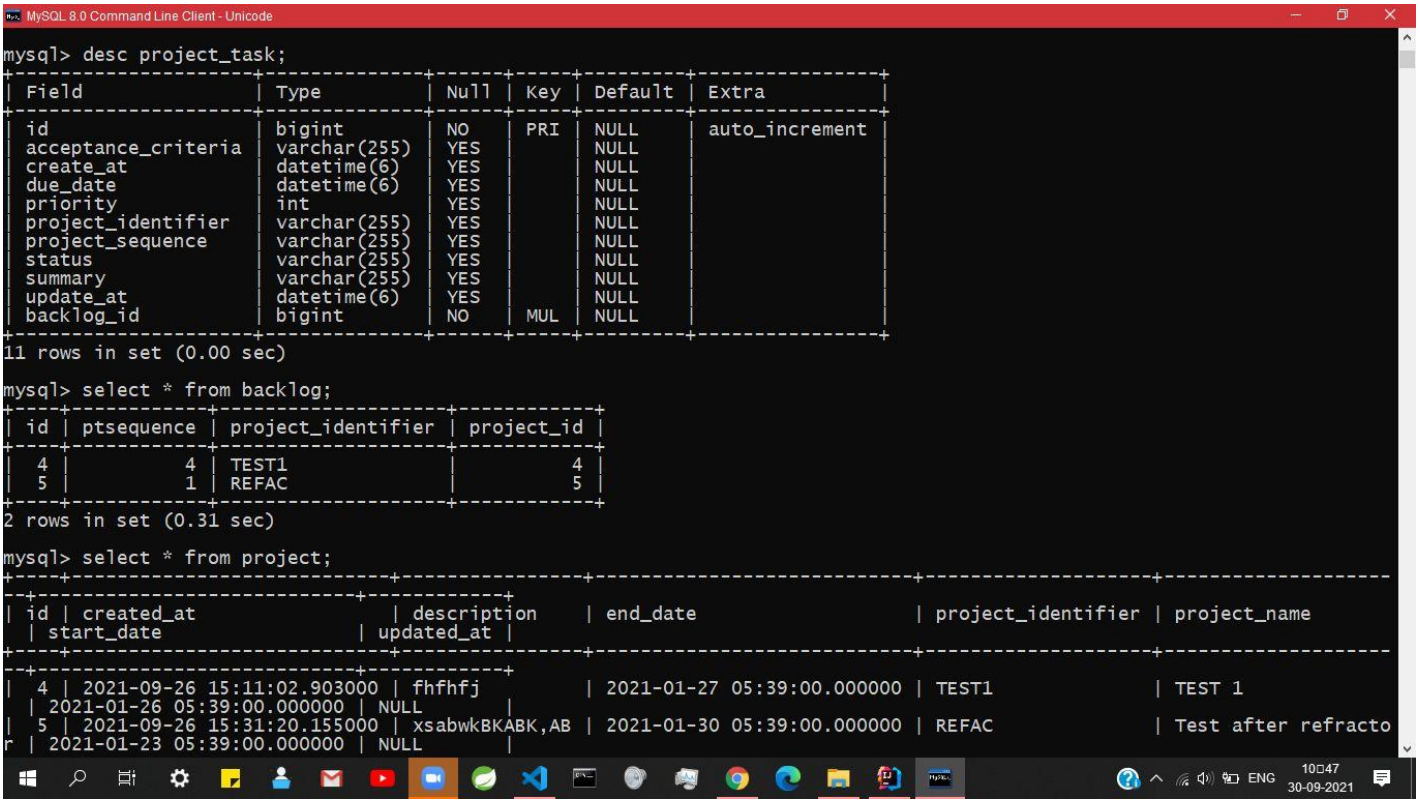


```
MySQL 8.0 Command Line Client - Unicode

mysql> desc backlog;
+--------------------+--------------+------+-----+---------+----------------+
| Field              | Type         | Null | Key | Default | Extra          |
+--------------------+--------------+------+-----+---------+----------------+
| id                 | bigint       | NO   | PRI | NULL    | auto_increment |
| ptsequence         | int          | YES  |     | NULL    |                |
| project_identifier | varchar(255) | YES  |     | NULL    |                |
| project_id         | bigint       | NO   | MUL | NULL    |                |
+--------------------+--------------+------+-----+---------+----------------+
4 rows in set (0.33 sec)

mysql> desc project;
+--------------------+--------------+------+-----+---------+----------------+
| Field              | Type         | Null | Key | Default | Extra          |
+--------------------+--------------+------+-----+---------+----------------+
| id                 | bigint       | NO   | PRI | NULL    | auto_increment |
| created_at         | datetime(6)  | YES  |     | NULL    |                |
| description        | varchar(255) | YES  |     | NULL    |                |
| end_date           | datetime(6)  | YES  |     | NULL    |                |
| project_identifier | varchar(5)   | YES  | UNI | NULL    |                |
| project_name       | varchar(255) | YES  |     | NULL    |                |
| start_date         | datetime(6)  | YES  |     | NULL    |                |
| updated_at         | datetime(6)  | YES  |     | NULL    |                |
+--------------------+--------------+------+-----+---------+----------------+
8 rows in set (0.00 sec)

mysql> desc project_task;
+---------------------+--------------+------+-----+---------+----------------+
| Field               | Type         | Null | Key | Default | Extra          |
+---------------------+--------------+------+-----+---------+----------------+
| id                  | bigint       | NO   | PRI | NULL    | auto_increment |
| acceptance_criteria | varchar(255) | YES  |     | NULL    |                |
| create_at           | datetime(6)  | YES  |     | NULL    |                |
| due_date            | datetime(6)  | YES  |     | NULL    |                |
| priority            | int          | YES  |     | NULL    |                |
| project_identifier  | varchar(255) | YES  |     | NULL    |                |
| project_sequence    | varchar(255) | YES  |     | NULL    |                |
| status              | varchar(255) | YES  |     | NULL    |                |
```

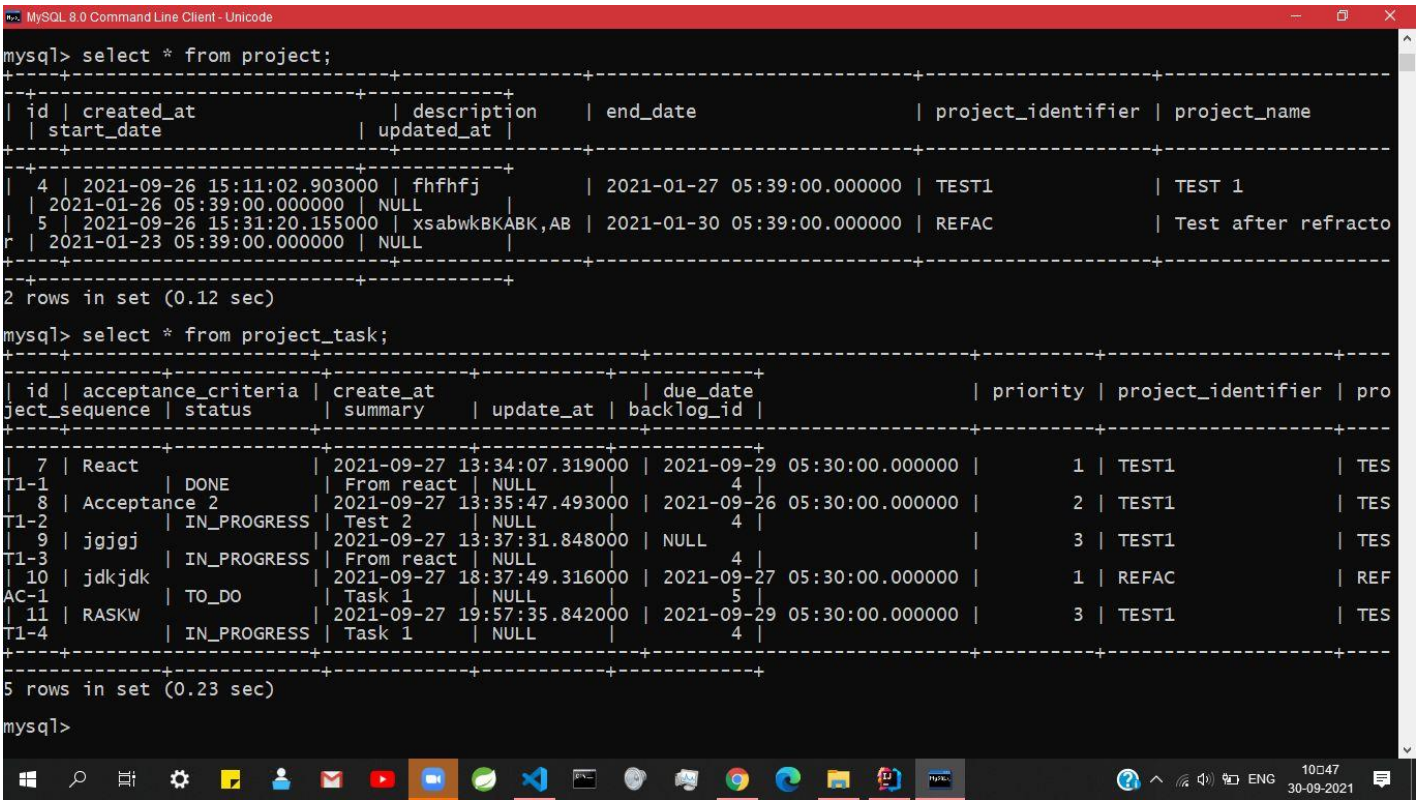


```
MySQL 8.0 Command Line Client - Unicode

mysql> desc project_task;
+--------------------+--------------+------+-----+---------+----------------+
| Field              | Type         | Null | Key | Default | Extra          |
+--------------------+--------------+------+-----+---------+----------------+
| id                 | bigint       | NO   | PRI | NULL    | auto_increment |
| acceptance_criteria | varchar(255) | YES  |     | NULL    |                |
| create_at          | datetime(6)  | YES  |     | NULL    |                |
| due_date           | datetime(6)  | YES  |     | NULL    |                |
| priority           | int          | YES  |     | NULL    |                |
| project_identifier | varchar(255) | YES  |     | NULL    |                |
| project_sequence   | varchar(255) | YES  |     | NULL    |                |
| status             | varchar(255) | YES  |     | NULL    |                |
| summary            | varchar(255) | YES  |     | NULL    |                |
| update_at          | datetime(6)  | YES  |     | NULL    |                |
| backlog_id         | bigint       | NO   | MUL | NULL    |                |
+--------------------+--------------+------+-----+---------+----------------+
11 rows in set (0.00 sec)

mysql> select * from backlog;
+----+------------+--------------------+------------+
| id | ptsequence | project_identifier | project_id |
+----+------------+--------------------+------------+
|  4 |          4 | TEST1              |          4 |
|  5 |          1 | REFAC              |          5 |
+----+------------+--------------------+------------+
2 rows in set (0.31 sec)

mysql> select * from project;
+----+----------------------------+---------------+----------------------------+--------------------+--------------------
--+----------------------------+------------+
| id | created_at                 | description   | end_date                   | project_identifier | project_name
  | start_date                 | updated_at |
+----+----------------------------+---------------+----------------------------+--------------------+--------------------
--+----------------------------+------------+
|  4 | 2021-09-26 15:11:02.903000 | fhfhfj        | 2021-01-27 05:39:00.000000 | TEST1              | TEST 1
  | 2021-01-26 05:39:00.000000 | NULL       |
|  5 | 2021-09-26 15:31:20.155000 | xsabwkBKABK,AB | 2021-01-30 05:39:00.000000 | REFAC              | Test after refracto
r | 2021-01-23 05:39:00.000000 | NULL       |
```



```
MySQL 8.0 Command Line Client - Unicode

mysql> select * from project;
+----+----------------------------+---------------+----------------------------+--------------------+--------------------
--+----------------------------+------------+
| id | created_at                 | description   | end_date                   | project_identifier | project_name
  | start_date                 | updated_at |
+----+----------------------------+---------------+----------------------------+--------------------+--------------------
--+----------------------------+------------+
|  4 | 2021-09-26 15:11:02.903000 | fhfhfj        | 2021-01-27 05:39:00.000000 | TEST1              | TEST 1
  | 2021-01-26 05:39:00.000000 | NULL       |
|  5 | 2021-09-26 15:31:20.155000 | xsabwkBKABK,AB | 2021-01-30 05:39:00.000000 | REFAC              | Test after refracto
r | 2021-01-23 05:39:00.000000 | NULL       |
+----+----------------------------+---------------+----------------------------+--------------------+--------------------
--+----------------------------+------------+
2 rows in set (0.12 sec)

mysql> select * from project_task;
+----+--------------------+----------------------------+----------------------------+----------+--------------------+----
--------------+-------------+-----------+------------+
| id | acceptance_criteria | create_at                  | due_date                   | priority | project_identifier | pro
ject_sequence | status      | summary   | update_at | backlog_id |
+----+--------------------+----------------------------+----------------------------+----------+--------------------+----
--------------+-------------+-----------+-----------+------------+
|  7 | React              | 2021-09-27 13:34:07.319000 | 2021-09-29 05:30:00.000000 |        1 | TEST1              | TES
T1-1          | DONE        | From react | NULL      |          4 |
|  8 | Acceptance 2       | 2021-09-27 13:35:47.493000 | 2021-09-26 05:30:00.000000 |        2 | TEST1              | TES
T1-2          | IN_PROGRESS | Test 2     | NULL      |          4 |
|  9 | jgjgj              | 2021-09-27 13:37:31.848000 | NULL                       |        3 | TEST1              | TES
T1-3          | IN_PROGRESS | From react | NULL      |          4 |
| 10 | jdkjdk             | 2021-09-27 18:37:49.316000 | 2021-09-27 05:30:00.000000 |        1 | REFAC              | REF
AC-1          | TO_DO       | Task 1     | NULL      |          5 |
| 11 | RASKW              | 2021-09-27 19:57:35.842000 | 2021-09-29 05:30:00.000000 |        3 | TEST1              | TES
T1-4          | IN_PROGRESS | Task 1     | NULL      |          4 |
+----+--------------------+----------------------------+----------------------------+----------+--------------------+----
--------------+-------------+-----------+-----------+------------+
5 rows in set (0.23 sec)

mysql>
```

Conclusion

Society management system puts forth the actual working of a society. Administration, management, payment calculation, worker management, visitor management, etc. similar to asociety are the key features of our project. User can access services and functionalities from the society anywhere and anytime for their own comfort.

Future Scope

This project can be enhanced further by adding multiple users, online project system for the users to reduce the extra work of the admin. The software is flexible enough to be modified and implemented as per future requirements. We have tried our best to present this free and user–friendly website to users. Message and Email alerts for various happenings in the project can be added to the system so that users do not miss the updates and happenings of the society.

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[2] Software project management / Bob Hughes and Mike Cotterell, London [etc.]: McGraw-Hill, c2002, 3rd ed.

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