

# PROJECT MANAGEMENT TOOL

COLLABORATION TOOLS FOR PEOPLE TO  
WORK VIRTUALLY



# TEAM 1 : AVENGERS ASSEMBLE

- Akhila Katukuri
- Claudia Dsilva
- Sai Jeevan Teegala
- Vamshi Krishna Shanagonda
- Vikas Sanhotra

# WHAT IS PROJECT MANAGEMENT TOOL?

- Project management tool is an aid to assist an individual, team or organization to effectively organize work, projects and tasks.
- This tool is made to be completely customizable so they can fit the needs of teams of different sizes and with different goals.
- Projects are composed of several, interconnected projects that, when combined, achieve a larger, long-term business objective.
- This means Project Management tool will need advanced features to track projects at a higher-level in order to see how each project is interacting with each other. This tool can include flexible work views, Dashboard, Reporting, Time sheets.

# PERSONAS

## **Managers:**

Managers has ultimate control over teams and projects.

Manager gets to create and allocate tasks to the team members.

Manager has to create custom roles and grant access levels to the team members.

Manager has to plan the timeline of the project.

Manager gets to keep an eye on the task status of team members.

## **Team Members:**

Team members can see the work allocated to them along with deadlines.

Team members can be able to access the archive of tasks completed by them.

## **Clients:**

Clients are able to see the tasks and their timelines.

Clients can be able to check the progress of the project..

# User Stories

## User story 1 : Registration

As a manager: I should be able to sign up for the application successfully as a first time user.

As a team member: I should be able to able to sign up for the application successfully as a first time user.

As a client : I should be able to able to sign up for the application successfully as a first time user.

## User story 2 : Login

As a manager: I should be able to login successfully as a valid user to view the homepage.

As a team member : I should be able to login successfully as a valid user to view the homepage.

As a client : I should be able to login successfully as a valid user to view the homepage.

# User Stories

## User story 3 : Tasks

As a manager: I should be able to create or delete or update tasks and assign them to team members.

As a team member: I should be able to see the tasks that are assigned to me and update it if complete.

As a client : I should be able to see all the tasks are that present along with status.

## User story 4 : Chat function

As a manager: I should be able to chat with all the members of team along and also with the client.

As a team member : I should be able to chat with all the members of the team along with the manager and client.

As a client : I should be able to chat with all the members of the team along with the manager

# User Stories

## **User story 5 : Update/Delete Team Members**

As a manager: I should be able to add or delete the user to the project as team members.

## **User story 6 : Update/View Repository**

As a manager: I should be able to see the documents that are present and also be able to upload new documents.

As a Team Member: I should be able to see the documents that are present and also be able to upload new documents.

# ACCEPTANCE CRITERIA

## Based on the user stories:

Any person who gives the mandatory required details such as first name, last name, username, password, confirm password and a valid email ID will be able to successfully register as a user to the website.

Once the user registers, (s)he must encounter a login page where they have to enter a valid “username” and password for a secure login. If not the login is not successful or if the user forgets their Username or password they should be able to get their password recovery options.

The users should have a complete access to their accounts so that they can check their own tasks and update them when completed. The task will have a “completed” button to confirm the completion.

The users should have access to the chat box so that they can comment, discuss or give suggestion etc over chat to the team. This chat function works whenever a user send a particular message to other, it should reflect in the others chatroom.

The user (client) should be able to see all the tasks and their status in their homepage.

The admin module/manager must have access to add/remove accounts based on the requirement. The manager should have a separate function under project where (s)he can search the member with usernames and add them to the project.

The developer should create a repository to store all the required data. The user can edit or update the repository.



# TEST CASES

Test Scenarios	Test Cases	Test Data	Expected Result
<b>Account Creation</b>	Go to the website		User should get directed to the said website
	Click on Register button		User should be able to click on Register button
	Provide all required details		User should be able to fill all the required sections.
	Choose a Username and a Password		User should be able to choose the Username and a Password
	Click on Register button		User should be successfully able to complete the process of creating account
<b>Login</b>	Reach the login page		User should be able to login
	Click Login button		User should be able to click on Login button
	Provide valid username	User= example@gmail.com or a Username	User should be able to enter the username specified by each individual earlier
	Provide valid password	Password: 1234	User should be able to enter the password specified by each individual earlier
	Click on Login button		User should be successfully logged in

Test Scenario	Test Cases	Test Data	Expected Result
<b>Post/Update Task</b>	Manager should get the access to the account		User Admin should be able to log in and stay logged in.
	Create a task and assign it		User Admin should be able to create a task and assign it to team member.
	Click on submit		User Admin should be able to click submit to complete the process.
	Update an existing task		User Admin should be able to locate and make changes to the existing task.
	Click on submit		User Admin should be able to click submit to complete the process.
<b>Update TO-DO list and Status</b>	User should get access to the account		User should be able to log in and stay logged in.
	View the task		User should be able to view the task assigned to him by manager
	Update the task status		User should be able to update the status of the task assigned to him
<b>Chat Function</b>	Get the access to the account		User should be able to log in.
	Get to the Chat Box		User should be able to locate the chat box and should be able to comment.
	Click on submit		User should be able to submit the comment or chat.

Test Scenario	Test Cases	Test Data	Expected Result
<b>Upload Document</b>	Get the access to the account		User should be able to log in.
	Get to the Repository		User should be able to locate the repository and should be able to access it.
	Upload /View document		User should be able to upload a document so that other users can access them when required.Or view document uploaded by other person.
	click on submit		User should be able to submit the required document to the repository.
<b>Logout</b>	Get the access to the account		User should be able to log in.
	Click on logout		User should be able to locate log out on the home page.
	Get a confirmation message		User should get a confirmation message to Logout from the application.
	Click yes		User should click on yes button to terminate the session.

# PRODUCT BACKLOG

Serial No.	To do list	Features	Date	Priority
1	Project Section and group discussion	We had a group discussion so that each individual can provide their own ideas so as to get the final idea for the project.	9/3/20 - 9/10/20	High
2	Requirement Gathering	Gathering all the requirements for the project to be feasible.	9/10/20-9/14/20	Moderate
3	Research on technologies	We have had a group discussion about the technologies which should be used to build the project.	9/15/20- 9/20/20	High
4	Analysis on the technologies	We have researched different technologies and their feasibility to our application.	9/21/20- 9/27/20	Moderate
5	User login page and Registration page	We have designed a user login page.When the user enters the login credentials,homepage should be displayed.	9/28/20-10/3/20	High
6	User authentication	When the user registers and login using credentials,the website should be able to validate username and password.	10/3/20- 10/6/20	High

# PRODUCT BACKLOG

Serial No.	To do list	Features	Date	Priority
7	Designing User Interface	We need to start designing the user interface.	10/7/20-10/17/20	High
8	Tasks	Manager should be able to assign tasks to the team, client should be able to see the tasks and their status and whereas team members can see the assigned tasks and can update the task status.	10/18/20-10/23/20	High
9	Chat function	All the members in the project can chat with their respective team members along with the manager and client.	10/24/20-11/1/20	High
10	Update/Delete Team members	Manager should be able to add/delete the team members from the project tasks.	11/2/20-11/10/20	High
11	Working on Repository	Start working on the backend validations and database designing.	11/11/20-11/19/20	Moderate
12	Logout page	When a user clicks on the logout button on the home page, it should navigate back to the login page.	11/20/20-11/23/20	Moderate

# TIMELINE / DELIVERABLES

Activity	Start End Date	End Date	Duration	Status
Login/SignUp	09-21-2020	10-04-2020	Two weeks	Complete
Dashboard	10-05-2020	10-18-2020	Two weeks	Pending
Add Project	10-19-2020	11-01-2020	Two weeks	Pending
Add Task	11-02-2020	11-15-2020	Two weeks	Pending
All Pending Activities	11-16-2020	12-06-2020	Three weeks	Pending
Add Issue	01-24-2021	02-07-2021	Two weeks	Pending
Add Backlogs	02-08-2021	02-21-2021	Two weeks	Pending
Releases	02-22-2021	03-07-2021	Two weeks	Pending
Chat	03-08-2021	03-21-2021	Two weeks	Pending
Settings	03-22-2021	04-04-2021	Two weeks	Pending
All Pending Activities	04-05-2021	05-02-2021	Four weeks	Pending

# SPRINT BACKLOG-1

Sprint Task	Module	Priority	Issue encountered	Status
Sprint 1:	User login page and Registration page	High	Authentication failure for some test cases	Completed

# SPRINT 2



## Sprint 2

- User Interface development.
- Add validations for user authentication.
- Database modeling and integrating the API's with User Interface.



# SPRINT BACKLOG 2

Sprint Task	Module	Priority	Issue encountered	Status
Sprint 2: Task 1	Home Page	High	Integration of the work done by different team members	In-progress
Sprint 2: Task 2	Linking backend API's with the User Interface.	High	Discrepancy in underlying framework of User Interface and the API.	In-progress

# Minimum Viable Product -MVP

- Tool will have high security session management systems for securing the confidential information of the client/organization.
- Tool will have a TO DO list, where the users can list and Prioritize the tasks assigned.
- Ability to assign timeline, so that each task time can be tracked and deadlines be followed.
- Tool will have raise a Issue/Bug functionality for every task so that the developer can track any issues raised by the testing team for that particular task.
- Tool will have a Chat function, where the users can interact with the team members,manager and client.
- Make a repository, where users can easily save, sync and share files with the team. Also, users can easily attach all work files from these services to your tasks.
- Add a Wiki page, where the team members share the knowledge gathered.
- Allows to add team members from outside the organization.

# Retrospective 2

What went well	What needs improvement	Next Steps
Common GIT repository created so that team can work together	Need to brushup and speedup the coding	Improve our code quality
Team coordination has improved in setting up system configuration.	Need to prioritize and divide the tasks accordingly.	Needs thorough testing
Knowledge transfer within the team so that the work gets done faster.	Need to pickup the shorter logic instead of longer and fuzzy logic during the code programming.	Improve our familiarity with the code frameworks

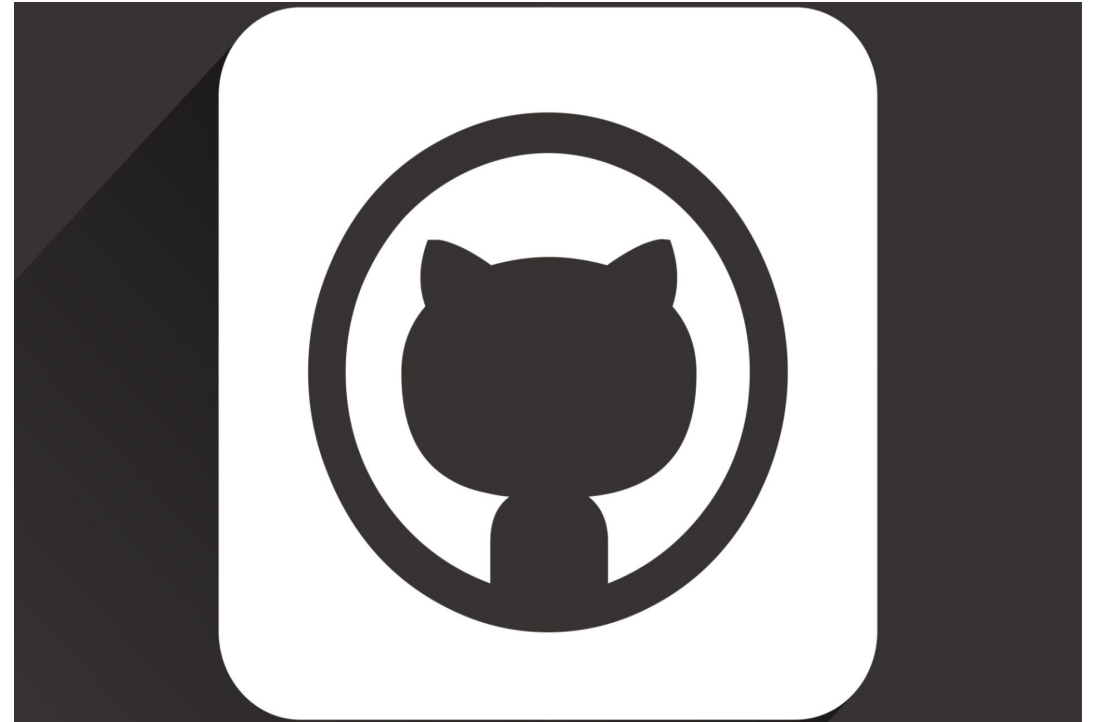
# TECHNOLOGIES

- Frontend: React JS
- Backend: Python- Django Framework
- Database: SQLite3

# GITHUB LINK

<https://github.com/saijeevan54/CS691-Project/>

[https://github.com/Vamshi399/cs691\\_project\\_management\\_tool](https://github.com/Vamshi399/cs691_project_management_tool)





**Thank You !!!**