



PROJECT MANAGEMENT TOOL

COLLABORATION
TOOLS FOR PEOPLE
TO WORK VIRTUALLY

TEAM 1 : AVENGERS ASSEMBLE

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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



**ADAM
REYNOLDS**

Manager

Age :30, Married

Goals:

He wants to have a 24*7 overview of the project and the status of the team for effective management.

Frustrations:

Not able to get a clear answer for effective tracking the team's progress

Technology:

Software Development , Java

MANAGER:

- has ultimate control over teams and projects.
- gets to create and allocate tasks to the team members.
- creates custom roles and grant access levels to the team members.
- gets to keep an eye on the task status of team members.
- Has access to repository , chat box and other functions

Personas

TEAM MEMBER:

- can see the work allocated to them along with deadlines.
- Can change the status of the task assigned on completion.
- Has access to repository , chat box and other functions



Marie Stan

Software Engineer

Age :25, Single

Goals:

She wants to learn frontend.

She wants to start her own business in the future.

Frustrations:

Data crashes.

Poor Communication.

Technology:

Software Consultant, Java

Personas



Cris Mas

Client, Business Owner

Age :45, Single

Goals:

He wants interesting software for his product.

He wants to save time online.

Frustrations:

It takes too much time to track progress.

Technology:

CRM

CLIENT:

- can see the work allocated to the members along with deadlines.

MVP (Minimum Viable Product)



Tool will have high security session management systems for securing the confidential information of the client/organization.



The managers will have access to add new projects and assign the tasks to the team.



The team members will have access to see the task assigned to them and change the status



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 or a FAQ page, where the team members share the knowledge gathered.



Settings page to customise the settings

Technologies Used

Front-end

UI/UX Designs

REACTJS

Router

Components

Service

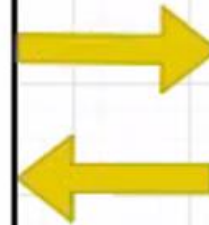
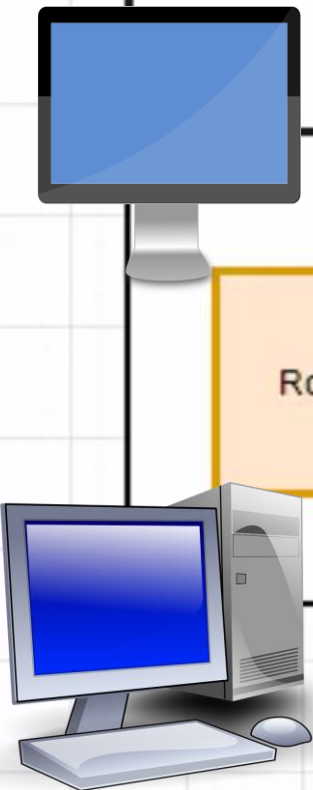
Back-end

DJANGO

Rest Framework

Models

dbsqlite



User Stories and Acceptance Criteria

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.

Acceptance Criteria: 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.

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.

Acceptance Criteria: 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.

User Stories and Acceptance Criteria

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.

Acceptance Criteria: 1.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.
2.The manager should have a separate function under project where (s)he can add task to the members based on the project.

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

Acceptance Criteria:All 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.

User Stories and Acceptance Criteria

User story 5 : Update/Delete Timelines

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

Acceptance Criteria: Manager should be able to add timelines to the task.

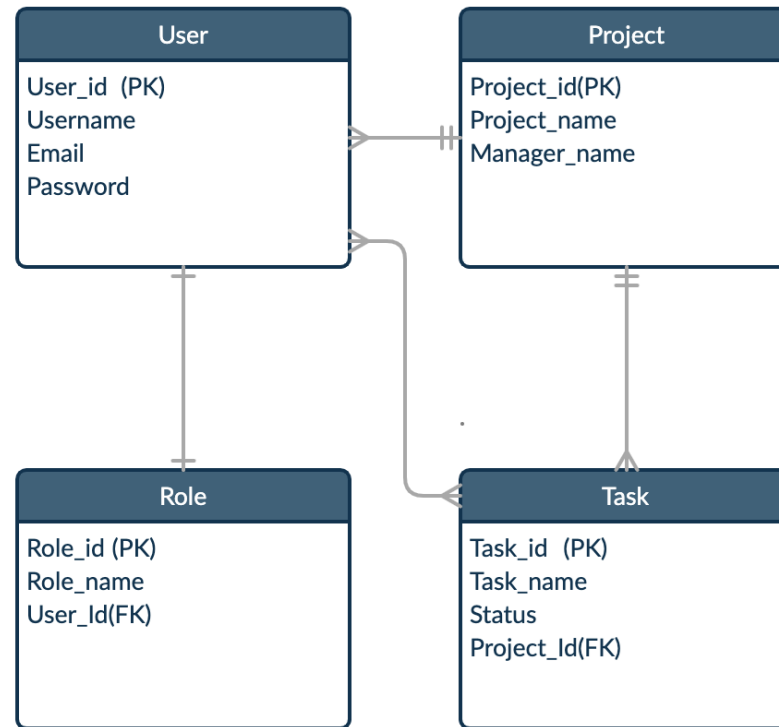
User story 6 : Update/View Repository

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.

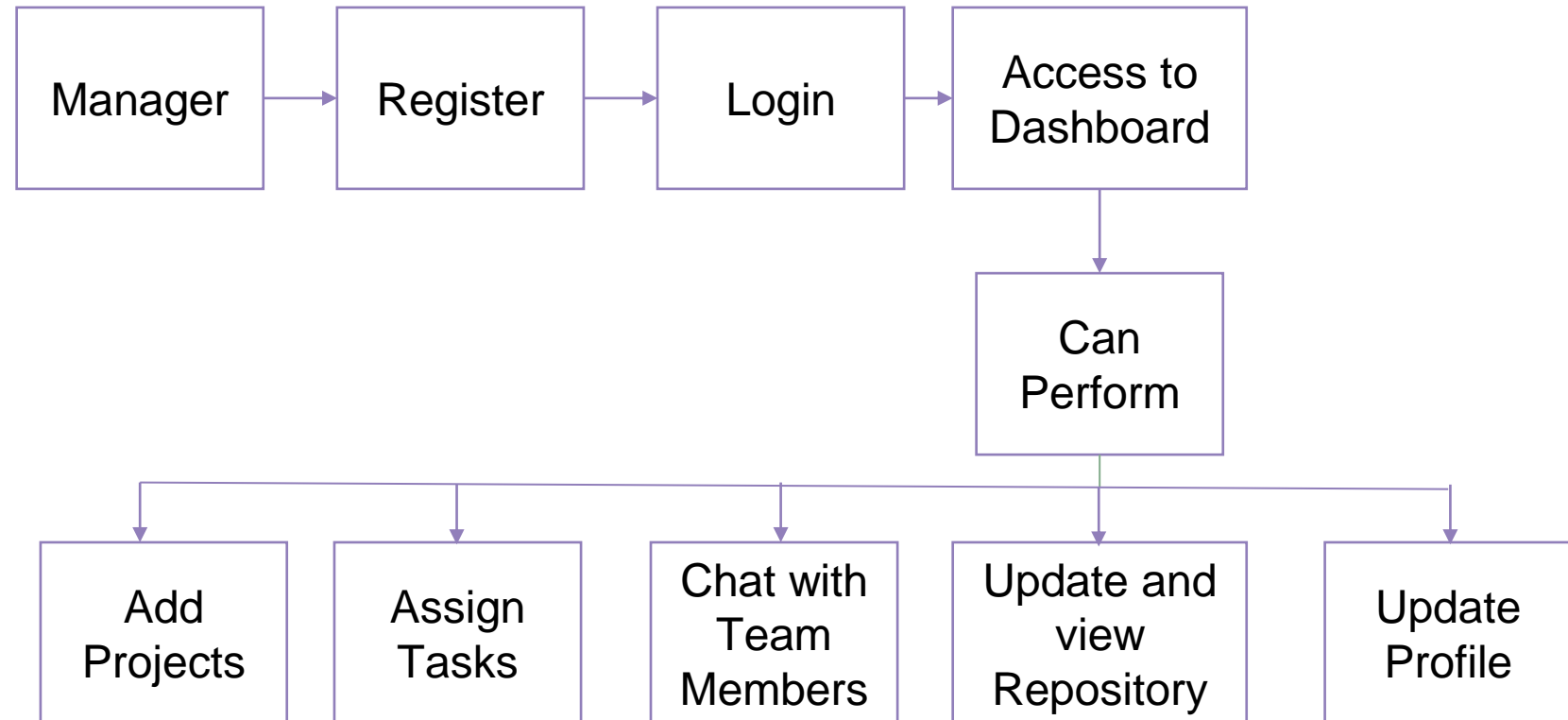
Acceptance Criteria: The developer should create a repository to store all the required data. The Manager and Team Member can edit or update the repository.

ER DIAGRAM



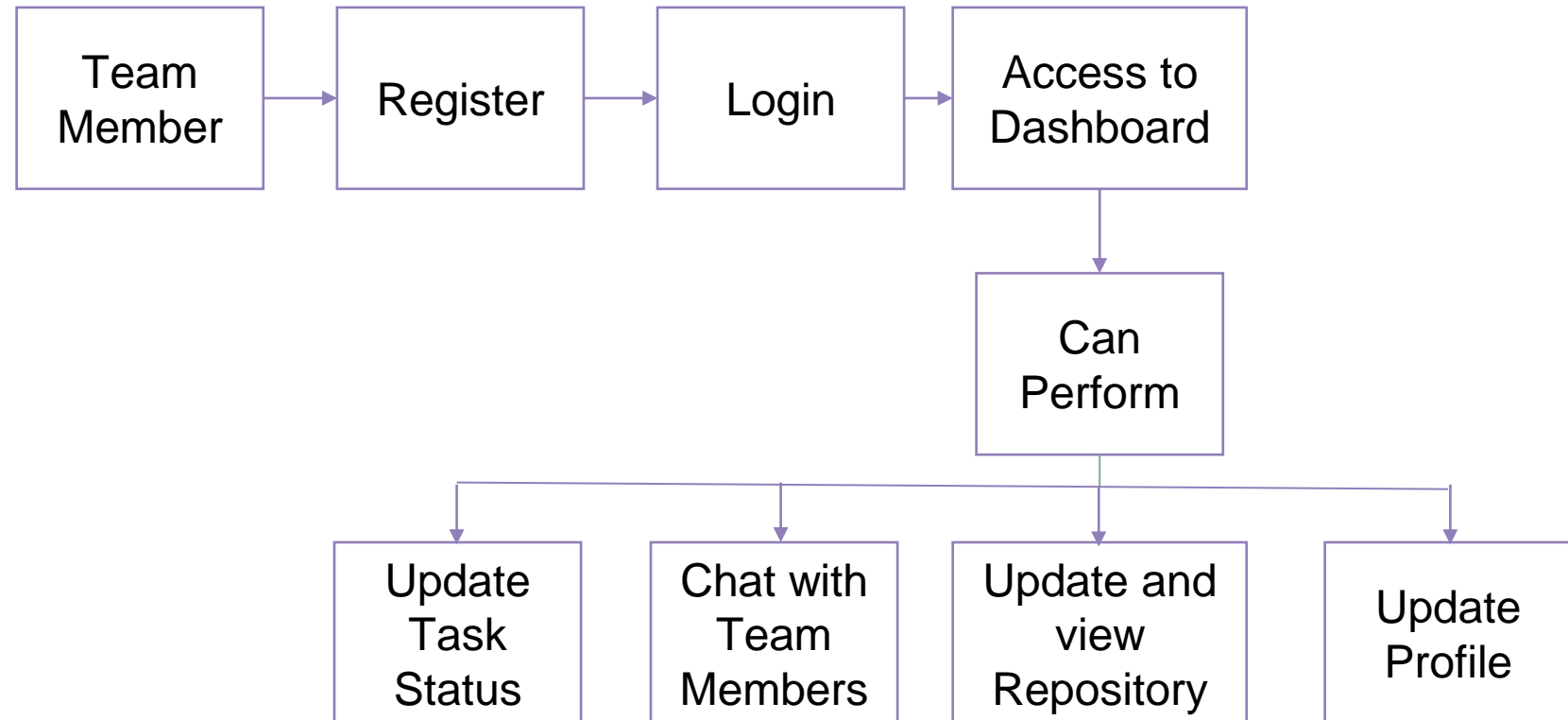
PROJECT FLOW DIAGRAM

- FOR MANAGERS:



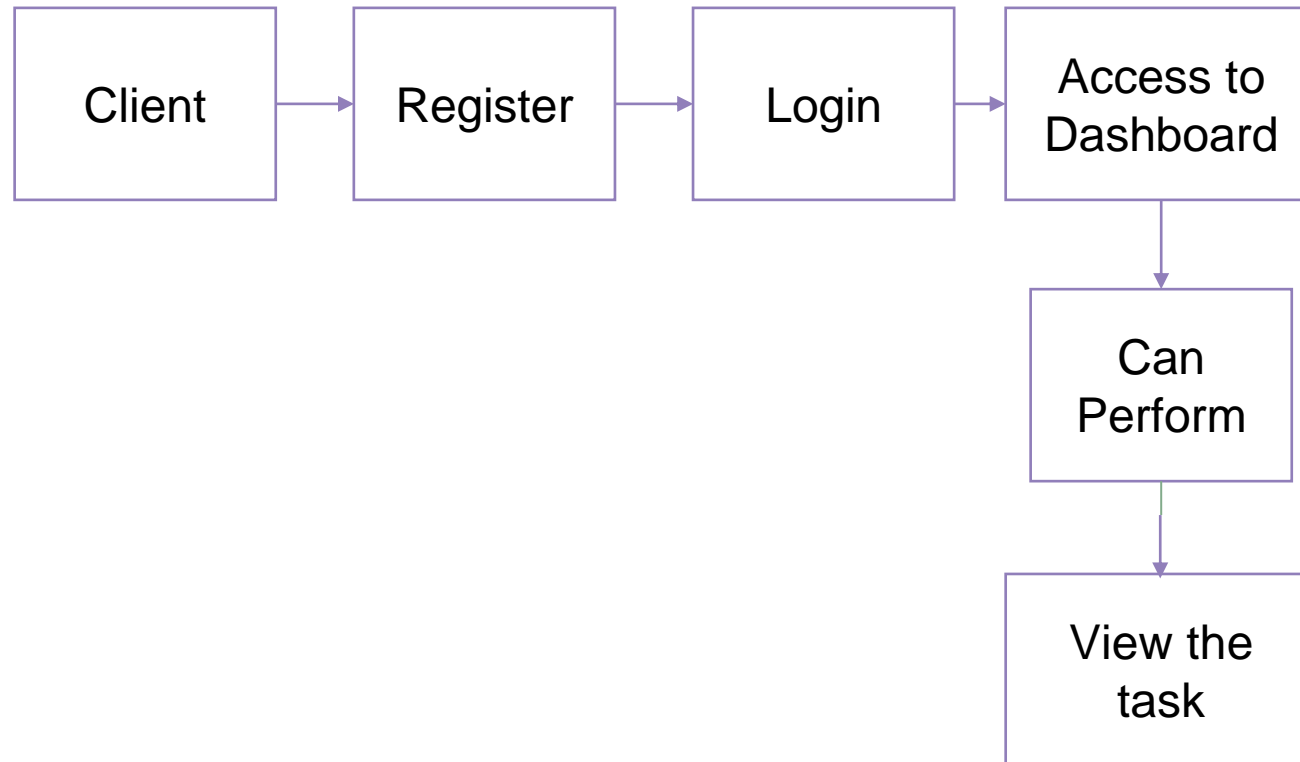
PROJECT FLOW DIAGRAM

- FOR TEAM-MEMBERS:



PROJECT FLOW DIAGRAM

- FOR CLIENTS:



Product Backlog

ID	For Feature	As a...	I want to be able to	So That	Priority	Sprint	Status
1	Login Page	Manager	Register as Manager	I can get the register with details of the user and Give user role as Manager	High	1	Done
2	Login Page	Manager	Fill-up login details as an Manager	I can be successfully Logged in as a Manager	High	1	Done
3	Home Page	Manager	Create Project Details	I can be able to make project teams	High	2	Done
4	Home Page	Manager	Define project details	I can give the name of the project along with members of the project.	High	3	Done
5	Home Page	Manager	Define the task	I can assign different task of the project to team members	High	4	Done
6	Login Page	Team members	Signup as a team-member	I can get the register with details of the user and Give user role as team member	High	2	Done
7	Login Page	Team members	Fill-up login details as a Team Member	I can be able to login with my credentials	High	1	Done
8	Home Page	Team members	View the tasks assigned by manager	I can be able to check the tasks that are assigned to me.	High	4	Done
9	Login Page	Client	Sign-up as a Client	to register my self as a viewer of that Project	High	2	Done
10	Login Page	Client	Login Successfully as a Client	I can view the overall Progress of the Project	High	4	Done
11	Home Page	Manager	Able to see the progress	I can view the overall progress of Project, teams and team members	Moderate	TBD	To be made
12	Repository Page	Member	Get access to the repository	I can able to upload and edit the files in the repository	High	TBD	To be made
13	Chat Page	Manager	chat with anyone	I can chat with team members and the client	High	TBD	to be made
14	Dashboard	Team members	Edit the progress	I can be able to show that I have completed the task assigned	High	TBD	to be made
15	Chat Page	Team members	Chat with team member and manager	I can give information about the project with team members and discuss progress with manager	High	TBD	to be made
16	Repository Page	Team members	Get access to the repository	I can be able to upload or view the repository uploaded by other team members	High	TBD	to be made
17	Chat Page	Client	chat with Manager	I can know the what's progress of the project	High	TBD	to be made
18	Settings page	User	change my Profile	I can customize my page and my account	low	TBD	to be made
19	Dashboard	Manager	specifying the deadline	the team member can work based on the priority set	Moderate	TBD	To be made

Test Cases

Scenario	Test Cases	Test Data	Expected Result	PASS/FAIL
Create account	Sign up with username, email ,roles and password	username:xxxx	User should be able to sign up successfully	PASS
	Error message if password is not as per validations		Proper error message should be displayed	PASS
	emails should be correct	email: vsxxxx@pace.edu	Valid Email should be able to signup	PASS
	Error message for invalid email	Role:Manager/	Proper error message should be displayed for invalid emails	PASS
	All the user details should be persisted in the user table except password	Role:Team member/	User details email, username should be saved in the SQLite database	PASS
		Role :Client	User with Role:manager ,directed dashboard wherein he can add Projects updates tasks User with Role:Team Member directed dashboard wherein he can view his tasks and update status User with Role:client, directed dashboard wherein he can view the tasks assigned	PASS
Login	Sign in with valid email id and password	User = vsxxxx@pace.edu Password: 123456m	User should be able to login with email and password without any errors	PASS
	Reach the dashboard page		User should be redirected to the dashboard page after successful login	PASS
	Error message for invalid email or password		User should be see proper error message for invalid email or password	PASS
Dashboard or Home	Navigate to different Pages		User should be able to navigate to Projects, Tasks, Repository, Calendar and FAQ's	PASS
	Create and Assign projects and tasks		User Manager can be able to create, assign, view, add tasks or projects to teams and team members.	PASS
	View and Update		User team member can be able to view their assigned tasks and project and also update their work status. User Client can only view the progress of the Project	PASS

Test Cases Continued

Scenario	Test Cases	Test Data	Expected Result	PASS/FAIL
Team Page	Update the work done		User team members can be able to update their tasks when completed	To be tested in next sprint
	View the progress		User team members and Manager can be able to view the progress of the tasks in the project	To be tested in next sprint
				To be tested in next sprint
Repository	Upload the work done		user team member and Manager can be able to upload the project and task work in the repository	To be tested in next sprint
	View the Project wok		user team member and Manager can be able to view the project and task work of other team members	To be tested in next sprint
	Download the files		User team member and Managers can be able to download files available in the repository	To be tested in next sprint
Messages	chat function		All User can be able to chat or message with each other	To be tested in next sprint
User Details	Update firstname		User should be able to update first name and it should reflect on the account page	To be tested in next sprint
	Update last name		User should be able to update last name and it should reflect on the account page	To be tested in next sprint
	Update password		Redirect to change password page to enter new password and then redirect to login page	To be tested in next sprint

Sprint 1 Backlog

Sprint Task	Module	Priority	Action Items	Status
Sprint 1 : Task 1	Brainstorming ideas	High	Brainstorming the project ideas	Done
Sprint 1 : Task 2	Requirement gathering	High	Requirement gathering relating to the selected Project	Done
Sprint 1: Task 3	Deciding modules, phases and technologies	High	Deciding each modules and phases and technologies used in the project	Done

Sprint 2 Backlog

Sprint Task	Module	Priority	Action Items	Status
Sprint 2: Task 1	Home Page	High	User Interface development was done and pages were developed	Done
Sprint 2: Task 2	Linking backend API's with the User Interface.	High	Database modeling and integrating the API's with User Interface.	Done

Sprint 3 Backlog

Sprint Task	Module	Priority	Action Items	Status
Sprint -3 Task1	UI development	High	Creating the UI for the frontend, including Dashboard and other pages	Done
Sprint -3 Task2	Login and Session Maintenance	High	Integration of the login page with the database for maintenance of sessions	Done
Sprint -3 Task3	Integrating Backend	High	Integration of the task table with the backend for inserting and pulling values from database	Done

Sprint 4 Backlog

Sprint Task	Module	Priority	Action Items	Status
Sprint 4 Task -1	UI Styling	High	Design the style of the User Interface	Done
Sprint 4 task 2	Data Pushing in database	High	Pushing input data from users to the backend database for storage	Done
Sprint 4 task 3	API display	High	Displaying Data from database sent to API on the Frontend	Done
Sprint 4 task 4	Frontend and Backend Integration	High	Integration of react and Django framework for data transfer	Done

PROJECT DEMO

<https://www.youtube.com/watch?v=MnaSmDZXss4&feature=youtu.be>

Future Scope

- Adding the timelines along with the task, so that the priorities can be set and tracked.
- Adding a repository where the documents etc. can be uploaded or viewed
- Adding a chat function, so that communication with the team is possible
- Adding setting page to customize the account.
- Sending Email validation to confirm the user account.

Retrospectives

What went well?

Collaboration between the team regarding work assignments and availability for discussion

The feature modifications were all made agreeable by the team members

The communication between the group during integration was improved a lot

What needs improvement?

Making sure everyone starts their tasks at timely manner

Waiting for the last day to do the QA of the deliverable

Making changes to the styling details at the end of deliverable

Next steps

Put up weekly meetings to start working on the extra features

Discuss the working and design of the extra features

GitHub Links



- Project Link:

For Frontend: https://github.com/Vamshi399/cs691_project_management_tool/

For Backend:

<https://github.com/saijeevan54/django>

- WiKi Page:

https://github.com/Vamshi399/cs691_project_management_tool/wiki

THANK YOU

