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.

Technologies Used

Front-end

Back-end

UI/UX Designs

REACTJS

Router

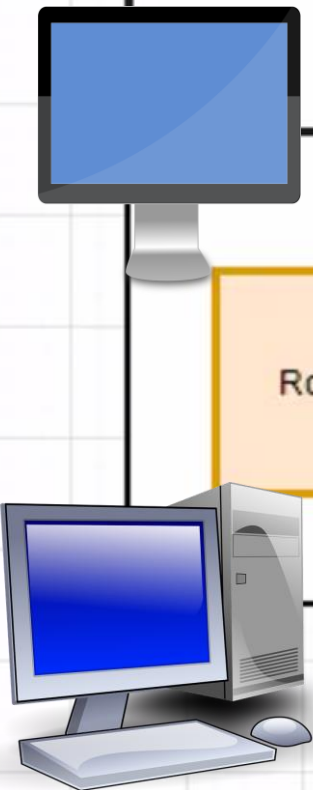Components

Service

JSON files

DJANGO

REST API FRAMEWORKS

URL Patterns

Serializers

Views

Models

SQLite

User Stories and Acceptance Criteria

User story 1: Registration

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

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

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

<u>Acceptance Criteria:</u> 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

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

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

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

<u>Acceptance Criteria:</u> 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

a.   As a manager: I should be able to create project and assign tasks to team member, delete or update tasks .

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

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

Acceptance Criteria: 1. The team members 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 be able to create a new project and should have a separate function under project where (s)he can add task to the members based on the project.

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

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

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

User Stories and Acceptance Criteria

User story 5 : Timelines

As a manager: I should be able to add timelines to the tasks assigned to team members.

Acceptance Criteria: Manager should be able to give the end-date to a task to keep track of the deadlines.

User story 6 : Repository

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

b. As a Team Member: I should be able to see and download 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 view,edit or update the documents present in the repository.

User Stories and Acceptance Criteria

User story 7 : Dashboard

a.   As a manager: I should be able to add/update projects and task and have access to different modules present on the dashboard.

b.   As a team member: I should be able to view and complete tasks assigned to me and have access to different modules present on the dashboard.

c.   As a client : I should be able to view the project and tasks and some selective modules present on it

Acceptance Criteria: 1.The users should have a complete access to the dashboard according to their roles so that they can check their own project , tasks and update them when completed.

2.The tasks assigned will in tabular format specific to their role.It will have access to other modules like chat, repository, calendar etc.
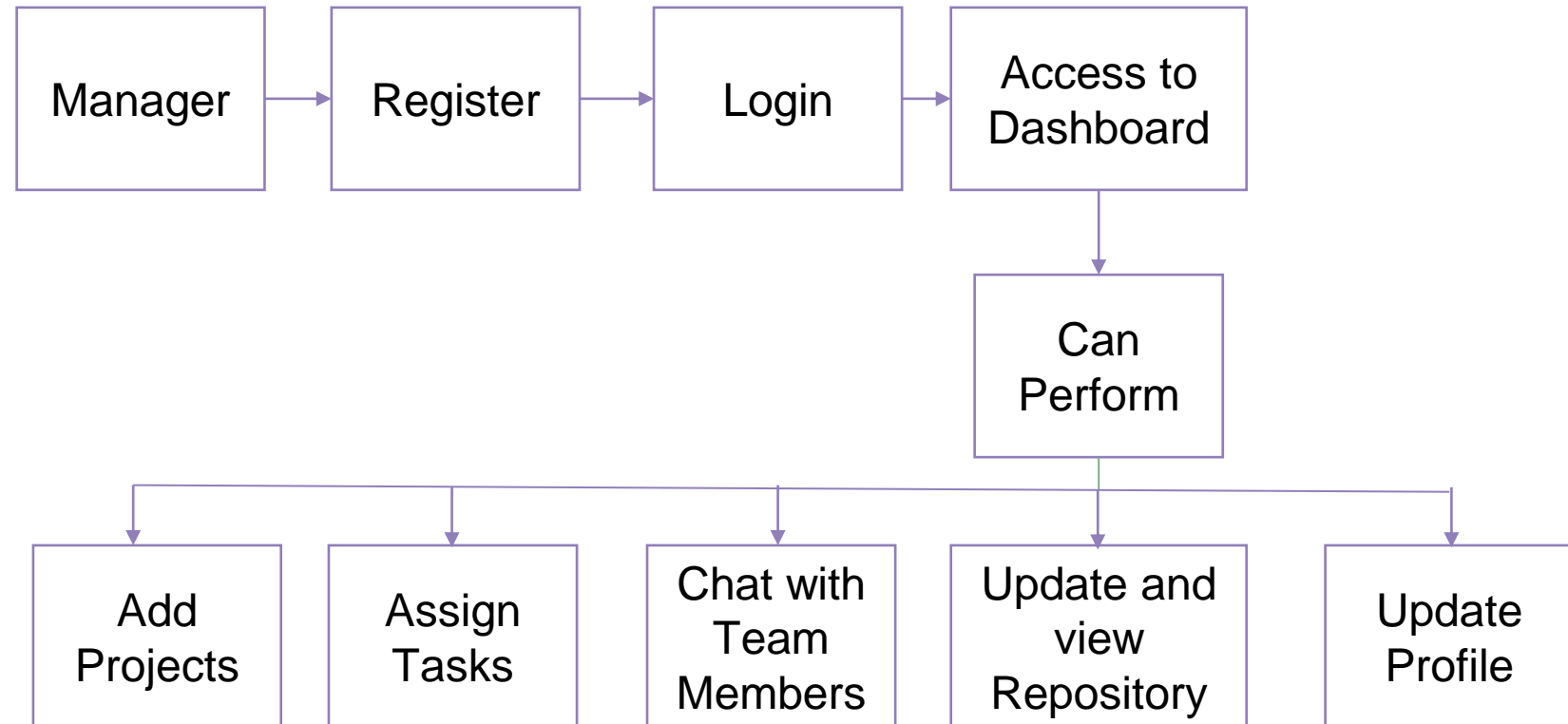
User story 8 : Calendar

a.   As a manager: I should be able to access the calendar and add events to it.

b.   As a team member: I should be able to access the calendar and add events to it.

Acceptance Criteria: 1.The users should have a access to the calendar, so that they can check and add events or set reminders for the tasks assigned to them.
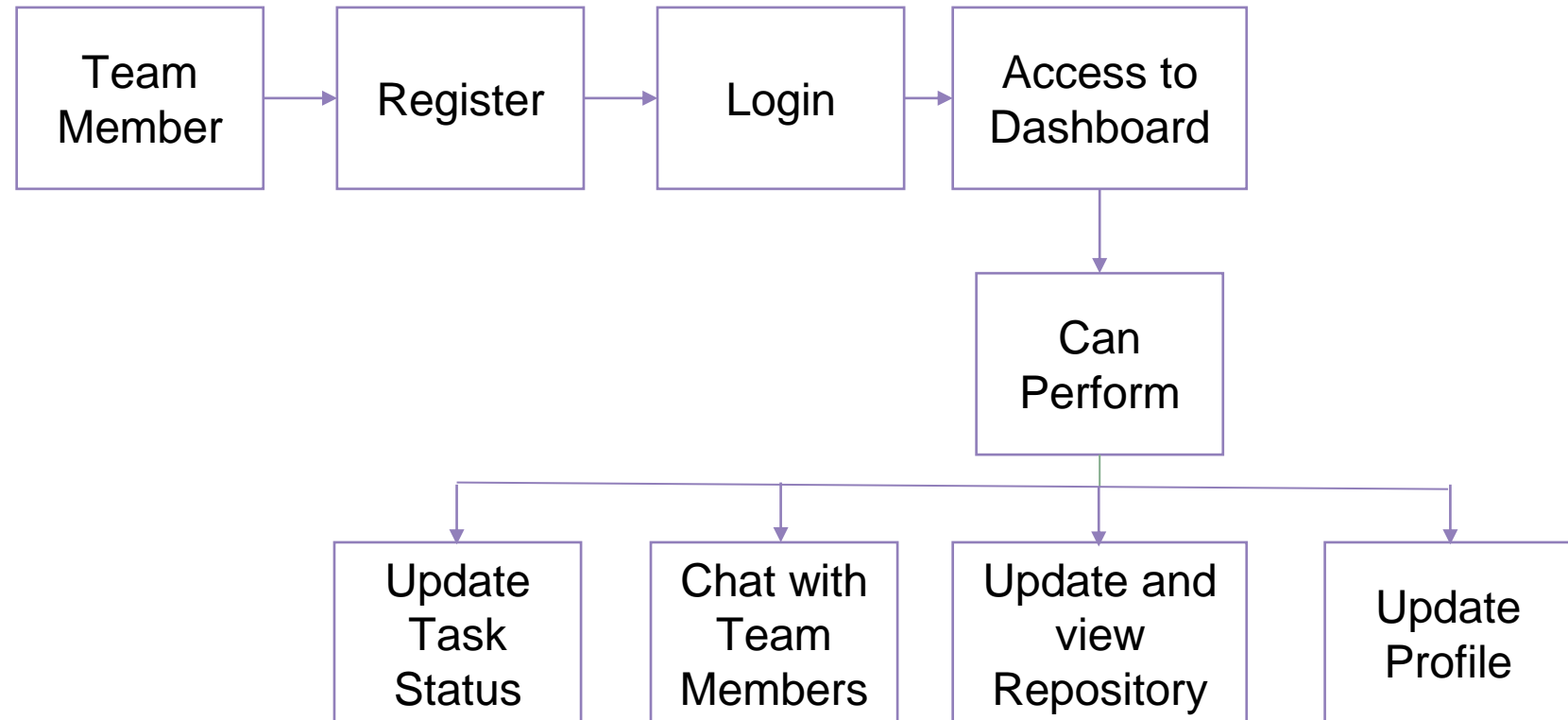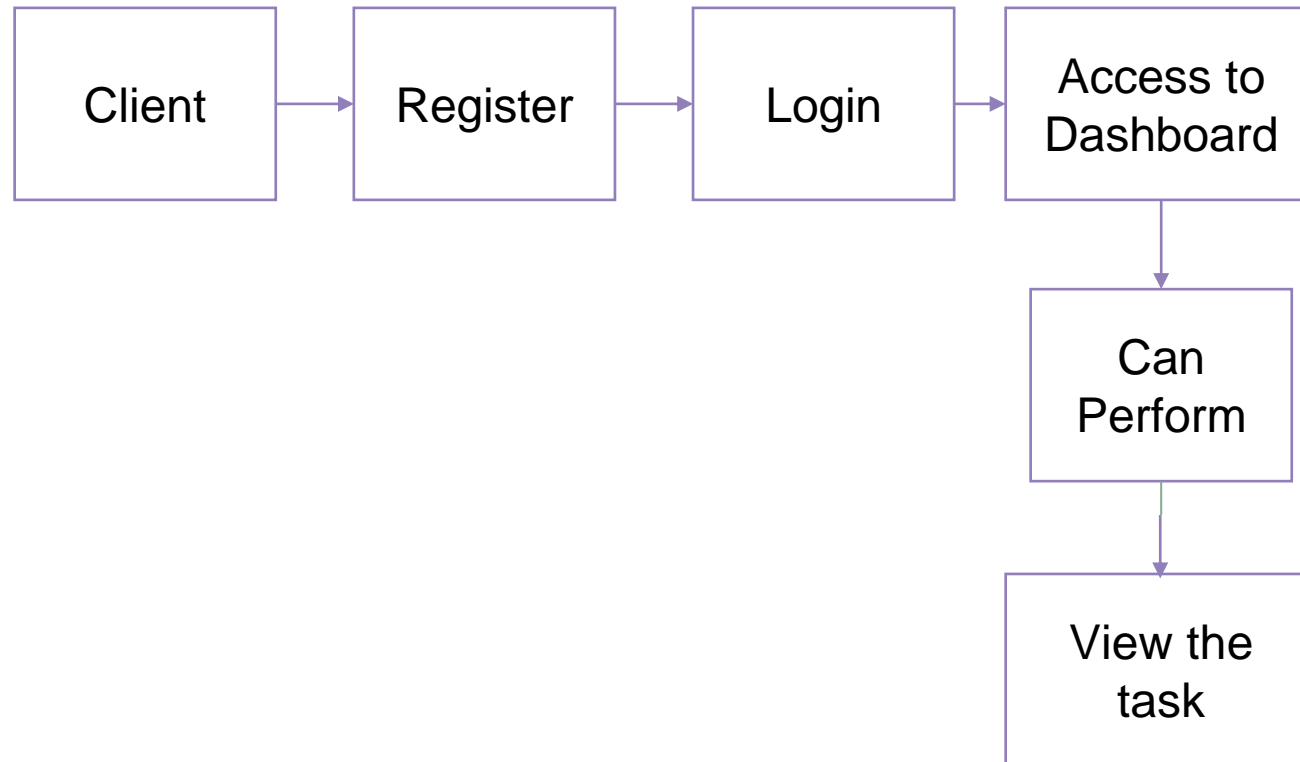
PROJECT FLOW DIAGRAM

- FOR MANAGERS:

PROJECT FLOW DIAGRAM

- FOR TEAM-MEMBERS:

PROJECT FLOW DIAGRAM

- FOR CLIENTS:

Product Backlog

User Story ID	User Story	As a... (Persona)	I want to be able to	So That	Priority	Sprint	Status
1 a	Registration	Manager	Register as Manager	I can register with my details and my user role as Manager to have access to the modules as manager	High	1	Done
1 b	Registration	Team members	Sign-up as a team-member	I can register with my details and m user role as team member to have access to the team members functionality	High	2	Done
1 c	Registration	Client	Sign-up as a Client	I can register myself as a viewer of that Project	High	2	Done
2 a	Login	Manager	Fill-up login details as an Manager	I can be successfully Logged in as a Manager	High	1	Done
2 b	Login	Team members	Fill-up login details as a Team Member	I can be able to login with my credentials as team member	High	1	Done
2 c	Login Page	Client	Login successfully as a Client	I can view the overall Progress of the Project	High	4	Done
3 a	Task and Project	Manager	Create Project Details	I can be able to create a new project as per requirement	High	2	Done
3 a	Tasks and Project	Manager	Define project details	I can assign project to the team members of the project.	High	3	Done
3 a	Tasks and Project	Manager	Define the task	I can assign different task of the project to the team members	High	4	Done
3 b	Tasks and Project	Team members	View the tasks assigned by manager	I can be able to check the tasks that are assigned to me and update once the task is completed..	High	4	Done

Product Backlog

User story ID	User Story	As a... (Persona)	I want to be able to	So That	Priority	Sprint	Status
6 b	Repository	Manager	Get access to the repository	I can upload , download, share and edit the files in the repository	High	5	Done
6 b	Repository	Team members	Get access to the repository	I can upload download or view the repository uploaded by other team members	High	5	Done
4 a	Chat Function	Manager	chat with anyone	I can chat with team members and the client	High	6	In Progress
4 b	Chat Function	Team members	Chat with team member and manager	I can discuss about the project with the team members and manager	High	TBD	to be made
4 c	Chat Function	Client	chat with Manager	I can know the what's progress of the project	High	TBD	to be made
8 a	Calendar	Manager	Access, add events and set reminders	I can set priorities and deadlines for the project and tasks	High	5	In Progress
8 b	Calendar	Team members	Access, add events and set reminders	I can complete my task, keep track of the deadlines and have a schedule	High	6	to be made
7 b	Dashboard	Team members	Update my status on tasks	I can show my progress and that I have completed the task assigned	Moderate	TBD	to be made
7 a	Dashboard	Manager	Able to see the progress	I can view the overall progress of Project, teams and team members	Moderate	5	Done
7 c	Dashboard	All User	change my Profile	I can customize my page and my account	low	TBD	to be made

Test Cases

User Stories	Scenario	Test Cases	Expected Result	PASS/FAIL	Test Data	Sprint
1.Registration a. Manager b. Team members c. Client	Create account	Sign up with username, email ,roles and password	User should be able to sign up successfully	PASS	username:xxxx email: vsxxxx@pace.edu Role:Manager/ Role:Team member/ Role :Client	Sprint 1
		Error message if password is not as per validations	Proper error message should be displayed	PASS		
		emails should be correct	Only Valid Email should be able to sign-up	PASS		
		Error message for invalid email	Proper error message should be displayed for invalid emails	PASS		
		All the user details should be persisted in the user table except password	User details email, username should be saved in the SQLite database	PASS		
2.Login a. Manager b. Team members c. Client	Login Page	Sign in with valid email id and password	User should be able to login with email and password without any errors	PASS	User = vsxxxx@pace.edu Password: 123456m	Sprint 2
		Reach the dashboard page	User should be redirected to the dashboard page after successful login User with Role:manager ,is directed to dashboard wherein he can add Projects updates tasks User with Role:Team Member is directed to dashboard wherein he can view his tasks and update status User with Role:client, directed to dashboard wherein he can view the tasks assigned	PASS		
		Error message for invalid email or password	User should be see proper error message for invalid email or password	PASS		
7.Dashboard a. Manager b. Team members c. Client	Project Page	Update the work done	User team members can be able to update their tasks when completed	PASS		Sprint 3
		View the progress	User team members and Manager can be able to view the progress of the tasks for the project	PASS		

Test Cases Continued

User Story	Scenario	Test Cases	Expected Result	PASS/FAIL	Test Data	Sprint
3.**Task and Project** a. Manager b. Team Members c. Client	Dashboard or Home Page	Navigate to different Pages	User should be able to navigate to Projects, Tasks, Repository, Calendar and FAQ's	PASS		Sprint 4
		Create and Assign projects and tasks as Manager	User Manager should be able to create, assign, view, add tasks or projects to teams and team members.	PASS		
		View and Update Tasks as team member	User team member should be able to view their assigned tasks and project and also update their work status.	PASS		
		View Project as Client	User Client should only view the progress of the Project	PASS		
6.**Repository** a. Manager b. Team Member	Repository Page	Upload the work done	user team member and Manager should be able to upload any documents etc in the repository	PASS		Sprint 5
		View the Project wok	user team member and Manager should be able to view any documents uploaded by other team members	PASS		
		Download the files	User team member and Managers should be able to download files and documents available in the repository	PASS		
4.**Chat function** a. Manager b. Team Member c. Client	Messages	chat function	All team members , manager and client should be able to chat and discuss with each other	To be tested in next sprint		Sprint 6
8.**Calendar** a. Manager b. Team Member	Calendar Page	Access the calendar	User should be able to access and view the calendar	To be tested in next sprint		Sprint 6
		Set reminders and add events	User should be able to add events and set reminders for the specific tasks assigned to them	To be tested in next sprint		
7.**Dashboard** a. Manager b. Team Member c. Clients	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		Sprint 7
		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		
			Redirect to change password page to enter new password	To be tested in next sprint		

Sprint 1 Backlog

User Story	As a... (Persona)	I want to be able to	So That	Priority
Registration	Manager	Register as Manager	I can register with my details and my user role as Manager to have access to the modules as manager	High
Login	Manager	Fill-up login details as an Manager	I can be successfully Logged in as a Manager	High
Login	Team members	Fill-up login details as a Team Member	I can be able to login with my credentials	High

Sprint 2 Backlog

User Story	As a... (Persona)	I want to be able to	So That	Priority
Tasks and Project	Manager	Create Project Details	I can be able to make project teams	High
Registration	Team members	Sign-up as a team-member	I can register with my details and my user role as Team Member to have access to the modules as Team Member	High
Registration	Client	Sign-up as a Client	I can register with my details and my user role as Client to have access to the modules as Client	High

Sprint 3 Backlog

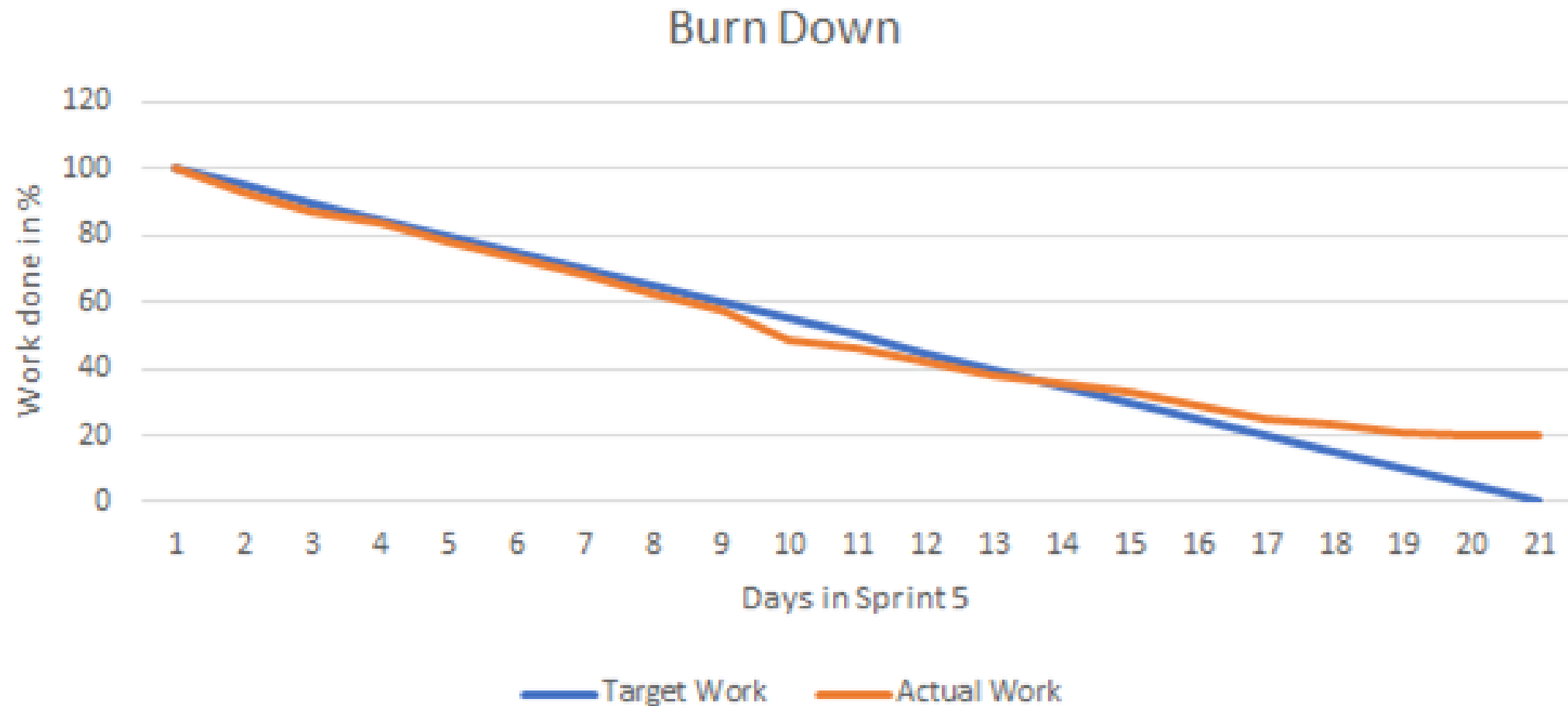| User Story	As a... (Persona)	I want to be able to	So That	Priority
Tasks and Project	Manager	Define project details	I can give the name of the project along with members of the project.	High

Sprint 4 Backlog

User Story	As a... (Persona)	I want to be able to	So That	Priority
Tasks and Project	Manager	Define the task	I can assign different task of the project to team members	High
Tasks and Project	Team members	View the tasks assigned by manager	I can be able to check the tasks that are assigned to me.	High
Login	Client	Login successfully as a Client	I can view the overall Progress of the Project	High

Sprint 5 Backlog

User Story	As a... (Persona)	I want to be able to	So That	Priority
Repository	Member	Get access to the repository	I can able to upload and edit the files in the repository	High
Repository	Team members	Get access to the repository	I can be able to upload or view the repository uploaded by other team members	High
Dashboard	Manager	Able to see the progress	I can view the overall progress of Project, teams and team members	Moderate
Tasks	**User Story**	**I want to be able to**	**So That**	**Priority**
Calendar Back end functionality	Calendar	Access, add events and seeing events	I can set priorities and deadlines for the project	High

Burn Down Chart

Future Scope

- Adding the timelines along with the task, so that the priorities can be set and tracked.

- Making a cloud repository.

- Adding setting page to customize the account.

- Sending Email validation to confirm the user account.

Retrospectives

What went well?

It was good, sharing ideas as everyone learnt something new from each other

The division of works into separate ones made everyone work at their own paces and complete each modules

Every team member contributed to the presentation along the major changes and went smoothly

What needs improvement?

The integration of individual works into project needed a lot of meetings

All team members should have the basic knowledge of different technologies used not only on the once they are working

Next steps

We will go with individual tasks that are mostly integrated on the main ones to avoid major time on those.

Share the technical details of every individual team member.

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