

## Project Planning Phase

### Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

Date	20 October 2022
Team ID	PNT2022TMID19849
Project Name	Project – Personal Expense Tracker Application
Maximum Marks	8 Marks

### Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	KAVHYA C M
		USN-2	As a user, I will receive confirmation email once I have registered for the application.	1	High	MIRUDHULA M R
Sprint-1	Login	USN-3	As a user, I can log into the application by entering email & password.	1	High	LOGANAYAKI K
Sprint-1	Dashboard	USN-4	Login takes to the dashboard of the user.	2	High	ABHISHEK G
Sprint-2	Workspace	USN-1	As a user, I can track my personal expense in workspace.	2	High	GUHAN SARAVANAN M

<b>Sprint</b>	<b>Functional Requirement (Epic)</b>	<b>User Story Number</b>	<b>User Story / Task</b>	<b>Story Points</b>	<b>Priority</b>	<b>Team Members</b>
Sprint-2	Graphs	USN-2	As a user, I can view my monthly expenses in graphs.	1	Medium	KAVHYA C M
Sprint-2	Connecting to IBM DB2	USN-3	As an admin, Linking database with dashboard.	2	High	MIRUDHULA M R
Sprint-2		USN-4	As an admin, Making dashboard interactive with JS.	2	High	LOGANAYAKI K
Sprint-3		USN-1	As an admin, wrapping up the server side works of frontend.	1	Medium	ABHISHEK G
Sprint-3	Watson assistant	USN-2	Creating Chatbot for clarifying user's query.	1	Medium	GUHAN SARAVANAN M
Sprint-3	SendGrid	USN-3	Sending alert mail to users about their expenses using SendGrid.	1	Low	KAVHYA C M
Sprint-3		USN-4	Integrating both frontend and backend.	2	High	MIRUDHULA M R
Sprint-4	Docker	USN-1	Creating image for website using docker.	2	High	LOGANAYAKI K
Sprint-4	Cloud Registry	USN-2	Uploading docker image to IBM Cloud registry.	2	High	ABHISHEK G
Sprint-4	Kubernetes	USN-3	Creating container using the docker image and hosting the site.	2	High	GUHAN SARAVANAN M
Sprint-4	Exposing	USN-4	Exposing IP/Ports for the site	2	High	KAVHYA C M

**Project Tracker, Velocity & Burndown Chart: (4 Marks)**

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	14 Oct 2022	20 Oct 2022	20	21 Oct 2022
Sprint-2	20	6 Days	22 Oct 2022	28 Oct 2022	20	29 Oct 2022
Sprint-3	20	6 Days	30 Oct 2022	05 Nov 2022	20	06 Nov 2022
Sprint-4	20	6 Days	7 Nov 2022	13 Nov 2022	20	14 Nov 2022

**Velocity:**

Imagine we have a 6-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \text{sprint duration} / \text{velocity} = 20/6 = 3.3$$

### Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

