

Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID48662
Project Name	Personal Expense Tracker Application
Maximum Marks	8 Marks

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

Use the below template to create product backlog and sprint schedule

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	Balaji M
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Manoj Kumar S
Sprint-1	Login	USN-3	As a user, I can register for the application through Gmail	1	High	Muthu Moorthy M
Sprint-1	Dashboard	USN-4	As a user, I can log into the application by entering email & password	2	High	Tharunkumar M
Sprint-2	Workspace	USN-1	Workspace for personal expense tracking	2	High	Balaji M
Sprint-2	Charts	USN-2	Creating various graphs and statistics of customer's data	1	Medium	Manoj Kumar S
Sprint-2	Connecting to IBM DB2	USN-3	Linking database with dashboard	2	High	Muthu Moorthy M
Sprint-2		USN-4	Making dashboard interactive with JS	2	High	Tharunkumar M
Sprint-3		USN-1	Wrapping up the server side works of frontend	1	Medium	Balaji M
Sprint-3	Watson Assistant	USN-2	Creating Chatbot for expense tracking and for clarifying user's query	1	Medium	Manoj Kumar S
Sprint-3	SendGrid	USN-3	Using SendGrid to send mail to the user about their expenses	1	Low	Muthu Moorthy M

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3		USN-4	Integrating both frontend and backend	2	High	Tharunkumar M
Sprint-4	Docker	USN-1	Creating image of website using docker	2	High	Balaji M
Sprint-4	Cloud Registry	USN-2	Uploading docker image to IBM Cloud registry	2	High	Manoj Kumar S
Sprint-4	Kubernetes	USN-3	Create container using the docker image and hosting the site	2	High	Muthu Moorthy M
Sprint-4	Exposing	USN-4	Exposing IP/Ports for the site	2	High	Tharunkumar 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	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

Velocity:

Imagine we have a 10-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)

$$AV = \text{Sprint Duration} / \text{Velocity} = 20/6 = 3.33$$

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.

<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>

<https://www.atlassian.com/agile/tutorials/burndown-charts>

Reference:

<https://www.atlassian.com/agile/project-management>

<https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software>

<https://www.atlassian.com/agile/tutorials/epics>

<https://www.atlassian.com/agile/tutorials/sprints>

<https://www.atlassian.com/agile/project-management/estimation>

<https://www.atlassian.com/agile/tutorials/burndown-charts>