

Project Planning Phase

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

Date	23 October 2022
Team ID	PNT2022TMID04269
Project Name	Project – Personal Expense Tracker
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 , new password and confirming the same password.	2	High	Jeyakrishna Amit
		USN -2	As a user , I will receive confirmation email once I have registered for the application.	1	Low	
	Login	USN -3	As a user , I can log into the application by entering email and password / Google OAuth.	2	High	Aslam Jassim
	Dashboard	USN -4	Logging in takes the user to their dashboard.	1	Low	
Sprint - 2	Workspace	USN -5	As a user ,I will update my salary at the start of each month.	1	Medium	Kishore
		USN -6	As a user , I will set a limit to keep track of my expenditure.	1	Medium	Jassim
		USN -7	Workplace for personal expense tracking	1	Medium	Aslam
	Charts	USN -8	Graphs to show weekly and everyday expenditure	2	High	Jeyakrishna

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint - 3	IBM DB2	USN -9	Linking database with dashboard	2	High	Amit
		USN -10	Making dashboard interactive with JS	2	High	Jassim
	Watson Assistant	USN -11	Embedding Chatbot to clarify user's queries.	1	Low	Kishore
	SendGrid	USN -12	Using SendGrid to send mail to the user. (To alert or remind)	1	Medium	Aslam
Sprint - 4	Integration	USN -13	Integrating frontend and backend.	2	High	Amit
	Docker	USN -14	Creating Docker image of web app.	2	High	Jeyakrishna
	Cloud Registry	USN -15	Uploading docker image to IBM cloud registry.	2	High	Kishore
	Kubernetes	USN -16	Creating container using docker and hosting the webapp.	2	High	Jassim
	Exposing Deployment	USN -17	Exposing IP/Ports for the site.	1	Medium	Aslam

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	2 Nov 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	15	4 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	14 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	18 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)

$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{20}{10} = 2$$

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.

