

Project Planning Phase

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

Date	29-10-2022
Team ID	PNT2022TMID22332
Project Name	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	Muthu Subramanian, Pradesh, Vignesh, Sreeprakash
		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	Muthu Subramanian, Pradesh, Vignesh, Sreeprakash
	Dashboard	USN -4	Logging in takes the user to their dashboard.	1	Low	

Sprint - 2		USN -5	As a user, I will update my salary at the start of each month.	1	Medium	Muthu Subramanian, Pradesh, Vignesh, Sreeprakash
		USN -6	As a user, I will set a target/limit to keep track of my expenditure.	1	Medium	Muthu Subramanian, Pradesh, Vignesh, Sreeprakash
	Workspace	USN -7	Workplace for personal expense tracking	1	Medium	Muthu Subramanian, Pradesh, Vignesh, Sreeprakash
	Charts	USN -8	Graphs to show weekly and everyday expenditure	2	High	Muthu Subramanian, Pradesh, Vignesh, Sreeprakash
		USN -9	As a user, I can export raw data as csv file.	1	Medium	Muthu Subramanian, Pradesh, Vignesh, Sreeprakash

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint - 3	IBM DB2	USN -10	Linking database with dashboard	2	High	Muthu Subramanian, Pradesh, Vignesh, Sreeprakash
		USN -11	Making dashboard interactive with JS	2	High	Muthu Subramanian, Pradesh, Vignesh, Sreeprakash
	Watson Assistant	USN -12	Embedding Chatbot to clarify user's queries.	1	Low	Muthu Subramanian, Pradesh, Vignesh, Sreeprakash
	SendGrid	USN -13	Using SendGrid to send mail to the user. (To alert or remind)	1	Medium	Muthu Subramanian, Pradesh, Vignesh, Sreeprakash
Sprint - 4	Integration	USN -14	Integrating frontend and backend.	2	High	Muthu Subramanian, Pradesh, Vignesh, Sreeprakash
	Docker	USN -15	Creating Docker image of web app.	2	High	Muthu Subramanian, Pradesh,

					Vignesh, Sreeprakash
Cloud Registry	USN -16	Uploading docker image to IBM cloud registry.	2	High	Muthu Subramanian, Pradesh, Vignesh, Sreeprakash
Kubernetes	USN -17	Creating container using docker and hosting the webapp.	2	High	Muthu Subramanian, Pradesh, Vignesh, Sreeprakash
Exposing Deployment	USN -18	Exposing IP/Ports for the site.	1	Medium	Muthu Subramanian, Pradesh, Vignesh, Sreeprakash

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)
Sprint1	20	6 Days	24-10-2022	29-10-2022	20	30-10-2022
Sprint2	20	6 Days	31-10-2022	05-11-2022	20	06-11-2022
Sprint3	20	6 Days	07-11-2022	12-11-2022	20	13-11-2022
Sprint4	20	6 Days	14-11-2022	19-11-2022	20	19-11-2022

Velocity:

Imagine we have 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).

$$\text{AV} = \text{Sprint duration} / \text{Velocity}$$

$$\text{AV} = 20 / 6 = 3.33$$

Burndown Chart:

A Burndown 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.

