Project Planning Phase

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	IBM Watson IOT platform	USN-1	Creating devices and board and generating data	1	medium	Thangam T Teena sherin R Sujitha k Yogeshwari A
Sprint-2	Storing Data using node-red	USN-2	Storing the data in IBM Cloud DB through node -red functions	2	High	Thangam T Teena sherin R Sujitha k Yogeshwari A
Sprint-3	Frontend in App	USN-3	Creating the frontend for users to use the medicine reminder app in MIT App inventor	1	High	Thangam T Teena sherin R Sujitha k Yogeshwari A
Sprint-3	Backend in App	USN-4	Designing the block of backend for the app in MIT App inventor	2	Low	Thangam T Teena sherin R Sujitha k Yogeshwari A
Sprint-4	User login	USN-5	As a user, I can register for the application through Gmail and login in to the app	2	Medium	Thangam T Teena sherin R Sujitha k Yogeshwari A

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Sprint-1	IBM Watson IOT platform	USN-1	Creating devices and board and generating data	1	medium	Thangam T Teena sherin R Sujitha k Yogeshwari A

Sprint-4	Reminder(TTS)	USN-5	Getting the speech reminder to users to take their tablet	1	High	Thangam T Teena sherin R Sujitha k Yogeshwari A

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

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

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.

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