Project Planning Phase

Project Planning Template (Product Backlog, Sprint Planning, Stories, Storypoints)

Date	06 November 2022
Team ID	PNT2022TMID01100
Project Name	**Project –Signs with smart connectivity for better road safety.**
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	Creating resources	USN-1	Keep the resources ready in order to start the project. Resources like crating account in IBM cloud and open weather API etc.…	1	Low	1.Pappu venkatasai kumar 2.Praneeash 3.Prathiyunan 4.Ragavan
Sprint-1	Simulation Creation	USN-2	Connect sensors to the Arduino or esp. in orderto create simulation	2	Medium	1.Pappu venkatasai kumar 2.Praneeash 3.Prathiyunan 4.Ragavan
Sprint-1	Code Script	USN-3	Write python script to get values from Arduino oresp.	2	High	1.Pappu venkatasai kumar 2.Praneeash 3.Prathiyunan 4.Ragavan

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Cloud	USN-4	Create a cloud account . open account in IBM Watson IoT platform, and create node red services .	2	Medium	1.Pappu venkatasai kumar 2.Praneeash 3.Prathiyunan 4.Ragavan
Sprint-2	Connect IBM cloudand python script.	USN-5	Connect connection between python script and IBM Watson IoT platform. Publish and subscribe the data between script and IoT platform.	2	High	1.Pappu venkatasai kumar 2.Praneeash 3.Prathiyunan 4.Ragavan
Sprint-3	MIT app inventor	USN-6	Using MIT app inventor developing the application.	2	High	1.Pappu venkatasai kumar 2.Praneeash 3.Prathiyunan 4.Ragavan
Sprint-3	Testing	USN-7	Testing the Application	2	Medium	1.Pappu venkatasai kumar 2.Praneeash 3.Prathiyunan 4.Ragavan
Sprint-4	Web ui	USN-8	User interface with the software.	2	High	1.Pappu venkatasai kumar 2.Praneeash 3.Prathiyunan 4.Ragavan

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	15	6 Days	24 Oct 2022	29 Oct 2022	15	29 Oct 2022
Sprint-2	15	6 Days	31 Oct 2022	05 Nov 2022	15	05 Nov 2022
Sprint-3	15	6 Days	07 Nov 2022	12 Nov 2022	15	12 Nov 2022
Sprint-4	15	6 Days	14 Nov 2022	19 Nov 2022	15	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)

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

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