Project Planning Phase

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

Date	22 October 2022
Team ID	PNT2022TMID46406
Project Title	Signs With Smart Connectivity for Better Road Safety
Maximum Marks	8 Marks

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

Sprint	Functional Requirement (Epic)	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Resources Initialization	Create and initialize accounts in various public APIs like Open Weather API.	13	Low	S. Gobika, K. Narmatha,
Sprint-1	Resources Initialization	Create IBM Watson IOT Platform& Node-Red Services in IBM cloud.	5	Low	M. Srija, S. Subhikshaa
Sprint-2	Push the server/software to cloud	Develop a python script to retrieve data from API.Push the code from Sprint 1 to cloud so it can be accessed from anywhere.	10	Low	S. Gobika, S. Subhikshaa

Sprint-2	Sending data to cloud	Delevop a web using Node Red service for display weather data, by accessing the data from IBM Watson.	20	Medium	S.Gobika, K.Narmatha, M.Srija, S.Subhikshaa
Sprint-3	GPS module interconnection	Using GPS module, hospitals& schools areas are tracked and data is gathered then it's execute in a web user interface.	20	High	S.Gobika, K.Narmatha, M.Srija, S.Subhikshaa
Sprint-4	Collection of Data	Information about Traffic around the area is gathered as a data. And the data is further encoded.	20	Medium	S.Gobika, K.Narmatha, M.Srija, S.Subhikshaa
Sprint-4	Setup	Data collected from sprint 2 & sprint 3 is deployed in Node-Red service to link API.	20	High	S.Gobika, K.Narmatha, M.Srija, S.Subhikshaa
	Service and Debugging	Better user experience		High	S.Gobika, K.Narmatha, M.Srija, S.Subhikshaa

Project Tracker, Velocity & Burn down 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	02 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	09 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	17 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)

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

Given: Sprint duration = 6 Days   velocity = 20   AV = 6/20 = 0.3

AV = 0.3

Burndown chart :

Sprint burndown

7 points done, 19 points to go   ✔ On track

100%
80%
60%
40%
20%
0%
Jun 3   Jun 21

● Remaining work ● Guideline