Project Planning Phase

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

Date	26-10-2022
Team ID	PNT2022TMID49709
Project Name	GAS MONITERING AND ALERTING SYSTEM FOR INDUSTRIES
Maximum Marks	8 Marks

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

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, password, and confirming my password.	3	High	G Subaitha
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	2	High	G Subaitha
Sprint-2	Cloud Service	USN-3	As a user, I can register for the application through OTP & Gmail verification	1	Low	Gayathri
Sprint-4		USN-4	As a user, I can register for the application through Gmail / web service	2	Medium	Tamil Selvi
Sprint-3	Login	USN-5	As a user, I can log into the application by entering email & password	4	High	Sakthi Priya R
Sprint-2	Preprocessing	USN-6	The user must be able to find the system easy to access so the Prep-processes and another task must be perfect	3	High	Gayathri
Sprint-1	Collecting Dataset	USN-7	To collect various sources of Gas leakage and keep developing a dataset using Clarifies.	3	Medium	G Subaitha
Sprint-4	Integrating	USN-8	To integrate the available dataset and keep improving the accuracy of finding Gas leakage	2	Medium	Tamil Selvi
Sprint-3		USN-9	To find and use appropriate compiler to run and test the data so that we can implement our program	1	Low	Sakthi Priya R
Sprint-2		USN-10	Request AVS Engineering College to deploy the project in our campus and test	1	Low	Gayathri

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Training	USN-11	As programmer, we need to train our data perfectly so that the program runs smoothly	3	High	G Subaitha
Sprint-3		USN-12	Train the data using out available service and IBM dataset from server and improve that	2	Medium	Sakthi Priya R
Sprint-4	Coding	USN-13	To modify the code according to our program and improve the efficiency of that code	4	High	Tamil Selvi
Sprint-2		USN-13	To improve performance	1	Low	Gayathri
Sprint-2	Record	USN-5	To record the data and plot the graph to show the characteristics officially	4	Medium	Sakthi Priya R
Sprint-1	Planning	USN-4	Plan the programming language and feasibility	3	High	G Subaitha
Sprint-4		USN-14	Demonstrate the working and improve accuracy overall	2	Low	Tamil Selvi

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	20Oct 2022	24 Oct 2022	20	21 Oct 2022
Sprint-2	20	6 Days	25 Oct 2022	29 Oct 2022	20	27 Oct 2022
Sprint-3	20	6 Days	31 Oct 2022	4 Nov 2022	20	2 Nov 2022
Sprint-4	20	6 Days	5 Nov 2022	11 Nov 2022	20	8 Nov 2022

Velocity:

We have a 23-day sprint duration, and the velocity of the team is 20(points per sprint).

TO FIND: Calculate the team's average velocity (AV) per iteration unit (Story points per day).

$$AV = \frac{sprint\ duration}{velocity} = \frac{23}{20} = 1.15$$

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

Project: IoT Based Smart Crop Protection System for Agriculture