Project Planning Phase

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

Date	19 October 2022
Team ID	PNT2022TMID51293
Project Name	IOT Based smart crop protection system for agriculture
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	Registration	USN-3	Create the IBM cloud services which are being used in this project.	6	High	Jesu sherly Ruba Sajitha Starlin Subisha
Sprint-1		USN-4	Configure the IBM cloud services which are being used in completing this project.	4	Medium	Jesu sherly Ruba Sajitha Starlin Subisha
Sprint-2		USN-1	IBM Watson IoT platform acts as the mediator to connect the web application to IoT devices, so create the IBM Watson IOT platform	5	High	Jesu sherly Ruba Sajitha Starlin Subisha
Sprint-2		USN-2	In order to connect the IOT device to the IBM cloud ,create a device in the IBM Watson IOT platform and get the device credential	5	Medium	Jesu sherly Ruba Sajitha Starlin Subisha
Sprint-3	Login	USN-1	Configure the connection security and create API key that are used in the Node-Red service for accessing the IBM IOT platforms	10	High	Jesu sherly Ruba Sajitha Starlin Subisha

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprints-3	Dashboard	US-2	Create a NODE-RED service	10	High	Jesu sherly Ruba Sajitha Starlin Subisha
Sprints-4		US-1	Create Web UI IN NODE-RED	10	High	Jesu sherly Ruba Sajitha Starlin Subisha
Sprints-4		US-2	Configure he Node-RED flow to receive data from the IBM IO T platforms and also use cloudant DB nodes to store the received sensor data in the cloudant DB	10	High	Jesu sherly Ruba Sajitha Starlin Subisha

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	05 Nov2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	14 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	21 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)

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