Project Planning Phase
Project Planning Template

Date	03 November 2022
Team ID	PNT2022TMID32996
Project Name	Project –IoT Based Smart Crop Protection 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	IBM Cloud Services	USN-1	Create a Cloud Account in IBM	10	High	Whole team
Sprint-1	Software	USN-2	Install the Python IDE	5	Medium	Leenasri S
Sprint-1	Clarifai	USN-3	Create an Account in Clarifai (To detect the animals and birds we are using an open-source platform Clarifai.)	5	High	Dharani R
Sprint-2	IBM Watson Platform	USN-4	Create IBM Watson IoT Platform and Device (It acts as the mediator to connect the web application to IoT device)	5	High	Kaviya R
Sprint-2	Node Red Services	USN-5	Create Node Red Services (To Create a Web Application)	5	High	Praveena V
Sprint-2	Cloudant DB	USN-6	Create a Database in Cloudant DB (To Store the Image URL, Launch the Cloudant DB)	5	High	Leenasri S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Cloud Object Storage	USN-7	Create a Cloud Object Storage Service	5	High	Dharani R
Sprint-4	Python Code	USN-8	Develop a Python Script	20	High	Kaviya R

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

$$AV = \text{Sprint Duration} / \text{Velocity} = 24/20 = 1.2$$

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.