PROJECT PLANNING PHASE

Date	02 November 2022			
Team ID	PNT2022TMID52099			
Project Name	Project - IoT Based Smart Crop Protection System for			
	Agriculture			
Maximum	8 Marks			
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 Poin		Priority	Team Members
Sprint- 1		US-1	Create the IBM Cloud 6 High services which are being used in this project.		Noorjahan beevi Nisha Rajeswari Murugan	
Sprint- 1		US-2	Configure the IBM Cloud services which are being used in completing this project.	4 Medium		Noorjahan beevi Nisha Rajeswari Murugan
Sprint- 2		US-3	IBM Watson IoT platform acts as the mediator to connect the web application to IoT devices, so create the IBM Watson IoT platform.	5 Medium		Noorjahan beevi Nisha Rajeswari Murugan
Sprint- 2		US-4	In order to connect the IoT device to the IBM cloud, create a device in the IBM Watson IoT platform and get the device credentials.	5	High	Noorjahan beevi Nisha Rajeswari Murugan

Sprint-3	US-1	Configure the connection security and create API keys that are used in the Node-RED service for accessing the IBM IoT Platform.		Noorjahan beevi Nisha Rajeswari Murugan	
Sprint-	US-2	Create a Node-RED service. 10		High	Noorjahan beevi Nisha Rajeswari Murugan
Sprint- 3	US-1	Develop a python script to publish random sensor data such as temperature, moisture, soil and humidity to the IBM IoT platform	7	High	Noorjahan beevi Nisha Rajeswari Murugan
Sprint-3	US-2	After developing python code, commands are received just print the statements which represent the control of the devices.	5	Medium	Noorjahan beevi Nisha Rajeswari Murugan
Sprint- 4	US-3	Publish Data to The IBM Cloud	8	High	Noorjahan beevi Nisha Rajeswari Murugan
Sprint- 4	US-1	Create Web UI in Node- Red	10	High	Noorjahan beevi Nisha Rajeswari Murugan
Sprint- 4	US-2	Configure the Node-RED flow to receive data from the IBM IoT platform and also use Cloudant DB nodes to store the received sensor data in the cloudant DB	10	High	Noorjahan beevi Nisha Rajeswari Murugan

Project Tracker, Velocity & Burndown Chart: (4 Marks):

Sprint	Total	Duration	Sprint Start	Sprint End	Story Points	Sprint Release Date
	Story		Date	Date (Planned)	Completed (as	(Actual)
	Points				on Planned End	
					Date)	
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)

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

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.

