

Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID34083
Project Name	Project -IoT Enabled Smart farming Applications
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	Hardware	SFIEFA-1	Create a python code.	5	High	Aiswarya Abarnaa Akshaya AriyaKrishna
Sprint-1	Hardware	SFIEFA-7	Set the sensors and wifi module	5	High	Aiswarya Abarnaa Akshaya AriyaKrishna
Sprint-1	Hardware	SFIEFA-6	Configure sensors and wi-fi module with python code.	10	High	Aiswarya Abarnaa Akshaya AriyaKrishna

Sprint-2	Software	SFIEFA-2	IBM Watson IoT platform, workflows for IoT scenarios using Node-red.	5	High	Aiswarya Abarnaa Akshaya AriyaKrishna
Sprint-2	Software	SFIEFA-10	Create IBM Watson IoT Platform	5	High	Aiswarya Abarnaa Akshaya AriyaKrishna
Sprint-2	Software	SFIEFA-11	Create a device & configure the IBM IoT Platform	3	Medium	Aiswarya Abarnaa Akshaya AriyaKrishna
Sprint-2	Software	SFIEFA-12	Create Node-RED service	2	Medium	Aiswarya Abarnaa Akshaya AriyaKrishna
Sprint-2	Software	SFIEFA-13	Create a database in cloudant DB to store all the sensor parameters	1	Low	Aiswarya Abarnaa Akshaya AriyaKrishna
Sprint 3	MIT app	SFIEFA-3	To develop an mobile application using MIT,	20	High	Aiswarya Abarnaa Akshaya AriyaKrishna
Sprint-4	Web UI	SFIEFA-4	To make the user to interact with the software.	4	High	Aiswarya

						Abarnaa Akshaya AriyaKrishna
Sprint-4	Registration	SFIEFA-16	As a user, I can register for the application by entering my Gmail, email then you can received the OTP or Verification Code.	6	Medium	Aiswarya Abarnaa Akshaya AriyaKrishna
Sprint-4	Registration	SFIEFA-17	As a user, I will receive confirmation Gmail or email once I have registered for the application.	1	Low	Aiswarya Abarnaa Akshaya AriyaKrishna
Sprint-4	Registration	SFIEFA-18	As a user, I can register for the application through Gmail and phone number.	2	Low	Aiswarya Abarnaa Akshaya AriyaKrishna
Sprint-4	Login	SFIEFA-19	As a user, I can log into the application by entering email & password	1	Meduim	Aiswarya Abarnaa Akshaya AriyaKrishna

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Login	SFIEFA-20	Once confirmation message received after login the system and Check Credentials Once check the credentials after go to the Manage modules.	2	High	Aiswarya Abarnaa Akshaya AriyaKrishna
Sprint-4	Web UI	SFIEFA-21	In this manage modules described the below functions like Manage System Admins Manage Roles of User Manage User permission and etc..	2	Medium	Aiswarya Abarnaa Akshaya AriyaKrishna
Sprint-4	Web UI	SFIEFA-22	Then check Temperature, humidity and moisture after then logout or exist the application.	2	High	Aiswarya Abarnaa Akshaya AriyaKrishna

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	11 Nov 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	13 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	16 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)

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

Burndown Chart:

	NOV					NOV					NOV										
	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Sprints	SFIEFA Sprint 1					SFIEFA...	SFIEFA Sprint 3					SFIEFA Sprint 4									
▼ SFIEFA-6 Hardware																					
SFIEFA-7 Create a python co... DONE 11 - AISW...																					
SFIEFA-8 Set the sensors an... DONE 11 - AISW...																					
SFIEFA-4 Configure sensors... DONE 11 - AISW...																					
▼ SFIEFA-9 Software																					
SFIEFA-2 IBM Watson IoT... DONE ABARNAAV...																					
SFIEFA-10 Create IBM Wat... DONE ABARNAAV...																					
SFIEFA-11 Create a device... DONE ABARNAAV...																					
SFIEFA-12 Create Node-RE... DONE ABARNAAV...																					
SFIEFA-13 Create a databa... DONE ABARNAAV...																					
▼ SFIEFA-14 MIT app																					
SFIEFA-3 To develop an mobile applicatio... DONE																					
▼ SFIEFA-15 Web UI																					
SFIEFA-4 To make the user t... DONE AKSHAYA...																					
SFIEFA-21 In this manage... DONE ARIYAKRISH...																					
SFIEFA-22 Then check Tem... DONE ABARNAAV...																					
▼ SFIEFA-23 Registration																					
SFIEFA-16 As a user, I can r... DONE 11 - AISW...																					
SFIEFA-17 As a user, I will re... DONE AKSHAYA...																					
SFIEFA-18 As a user, I can... DONE ARIYAKRISH...																					
▼ SFIEFA-24 Login																					
SFIEFA-19 As a user, I can... DONE ARIYAKRISH...																					
SFIEFA-20 Once confirmatio... DONE AKSHAYA...																					

