

Project Planning Phase

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

Date	1 st November 2022
Team ID	PNT2022TMID18981
Project Name	Smart Farming-IOT Enabled Smart Farming Application
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

WEEK -1

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.	2	High	Lokeshvar Poornisha Priyanka Thanish
Sprint-1	Registration	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	
Sprint-2	Registration	USN-3	As a user, I can register for the application through link	2	Low	
Sprint-1	Registration	USN-4	As a user, I can register for the application through Gmail	2	Medium	
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	

WEEK (2-4)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Priority	Team Members
Sprint-1	Literature Survey	USN-1	Literature survey on the selected project and information gathering	High	Poornisha
Sprint-2	Empathy Map	USN-2	Prepare Empathy Map Canvas to capture the user Pains and gains and also prepare the list of problem statement	High	Priyanka
Sprint -3	Ideation	USN-2	List the ideas by organizing the brainstorming session	High	Lokeshvar and Thanish

WEEK 5-6 (Project Design Phase -I)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Priority	Team Members
Sprint-1	Proposed Solution	USN-1	Prepare the proposed solution document, which includes the novelty, feasibility of idea, business model, social impact, scalability of solution, etc.	High	Poornisha
Sprint-2	Problem- Solution Fit	USN-2	Prepare problem - solution fit document	High	Priyanka
Sprint -3	Solution Architecture	USN-2	Prepare problem - solution architecture	High	Thanish

WEEK 7-8 (Project Design Phase -II)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Priority	Team Members
Sprint-1	Requirement Analysis	USN-1	Prepare the requirement analysis	High	Poornisha
Sprint-2	Customer Journey	USN-2	Prepare the customer journey maps to understand the user interactions & experiences with the application (entry to exit)	High	Lokeshvar
Sprint -3	Data Flow Daigrams	USN-2	prepare the Functional Requirement Document & Data Flow Daigrams	High	Thanish

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

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.

<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>

<https://www.atlassian.com/agile/tutorials/burndown-charts>

Reference:

<https://www.atlassian.com/agile/project-management>

<https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software>

<https://www.atlassian.com/agile/tutorials/epics>

<https://www.atlassian.com/agile/tutorials/sprints>

<https://www.atlassian.com/agile/project-management/estimation>

<https://www.atlassian.com/agile/tutorials/burndown-charts>