

## Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID27262
Project Name	<b>Project</b> - Smart Farmer - IoT Enabled Smart Farming Application
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 (Farmer Mobile App user)	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Team Leader (MathanKumar)
Sprint-1	Login	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Team Member 1 (R. Balaji)
Sprint-2	User Interface	USN-3	As a user, I can register for the application through Facebook	2	Low	Team Member 2 (Pozhilaran)
Sprint-1	Data Integration	USN-4	As a user, I can register for the application through Gmail	2	Medium	Team Member 3 (Priyan)
Sprint-1	Registration (Chemical Manufacture-Web user)	USN-1	As a new user, I want to first register using my organization email and create a password for the account for the whole organization. So that important representatives can access it.	2	High	Team Member 1 (R. Balaji)

<b>Sprint</b>	<b>Functional Requirement (Epic)</b>	<b>User Story Number</b>	<b>User Story / Task</b>	<b>Story Points</b>	<b>Priority</b>	<b>Team Members</b>
Sprint-4	Login	USN-2	As a registered user, I need to easily log in using the registered account via the web Page, so that web page should be user interactive and easy to use	3	High	Team Leader (MathanKumar)
Sprint 3	Web UI	USN-3	As a user, I need to have a user-friendly interface to easily view and access the Resources, the UI should be easy and user interactive	3	Medium	Team Member 2 (Pozhilan)
Sprint-3	Registration (Farmer-Web User)	USN-1	As a user, I can log into the application by entering email and password I can create account using my Gmail, Facebook etc..	3	High	Team Leader (MathanKumar)
Sprint - 2	Login	USN-2	As a registered user, I need to easily login log into my registered account via the web page in minimum time	3	Medium	Team Member 3 (Priyan)
Sprint-4	Web Ui	USN-3	As a user, I need to have a friendly user interface to easily view and access the resources	3	Medium	Team Member 1 (R. Balaji)
Sprint-1	Registration (Chemical Manufacturer - Mobile User)	USN-1	As a user, I want to first register using my email and create a password for the account.	1	High	Team Member 3 (Priyan)
Sprint-1	Login	USN-2	As a registered user, I need to easily log in to the application	2	Low	Team Member 2 (Pozhilan)

### 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	18	6 Days	24 Oct 2022	29 Oct 2022	18	29 Oct 2022
Sprint-2	10	6 Days	31 Oct 2022	05 Nov 2022	10	01 Nov 2022
Sprint-3	6	6 Days	07 Nov 2022	12 Nov 2022	6	10 Nov 2022
Sprint-4	6	6 Days	14 Nov 2022	19 Nov 2022	6	16 Nov 22

#### 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)

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

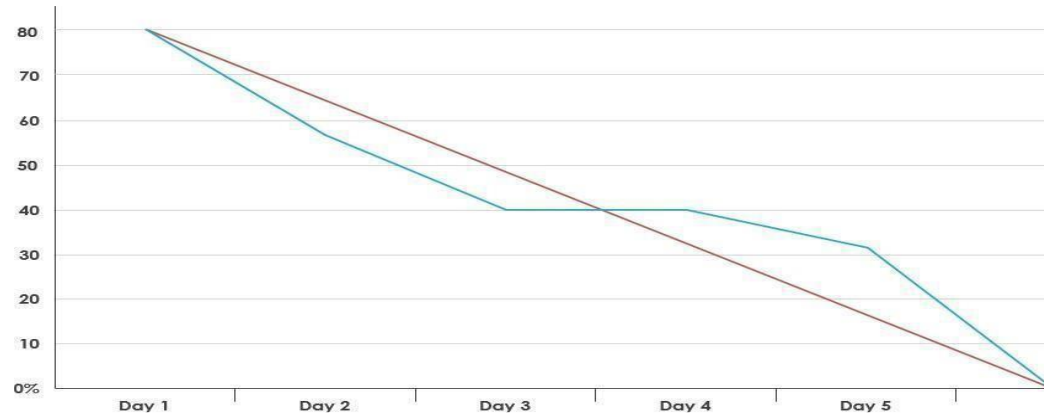
AV for sprint 1= Sprint Duration/Velocity=18/6=3

AV for sprint 2= Sprint Duration/Velocity=6/6=1

AV for Sprint 3=Sprint Duration/Velocity=6/6=1

AV for Sprint 4=Sprint Duration/Velocity=6/6=1

### Burndown Chart:



### 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>