

## Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID21513
Project Name	Estimate the crop yield using Data Analytics
Maximum Marks	8 Marks

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

Sprints	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.	1	High	Gnana Dheepika G G
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	2	High	Marieswari M
Sprint-2		USN-3	As a user, I can register for the application through Google Sign-on	2	Low	Roshika B
Sprint-1		USN-4	As a user, I can register for the application through Gmail	1	Medium	Logeshavan R
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Gnana Dheepika G G
Sprint-1	Dashboard	USN-6	As a user, I can use the methods provided in the dashboard	2	Medium	Roshika B
Sprint-3		USN-7	As a user, I can view the previous results of predictions done by me	2	Low	Marieswari M
Sprint-2	Prediction	USN-8	As a user, with the results obtained, I can determine whether profit or loss is made	2	High	Logeshavan R
Sprint-1	Accessing the resources	USN-9	As a user, I can Identify my account with set of unique credentials	2	High	Gnana Dheepika G G

Sprints	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Data Maintenance	USN-10	As a administrator, I can collect Data and maintain it and update whenever necessary	1	Medium	Marieswari M
Sprint-2	Tools	USN-11	As a user, I use cognos analytics to perform data analysis on the collected dataset	1	High	Logeshavan 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)

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

### **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>