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

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|---|---|
| Date | 18 October 2022 |
| Team ID | PNT2022TMID51723 |
| Project Name | Estimate the crop yield using data analytics |
| 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 | USN-1 | As a user, I can register for the application by entering my email, password, and confirming my password. | 2 | High | Esther Baby |
| Sprint-1 | | USN-2 | As a user, I will receive confirmation email once I have registered for the application | 1 | High | Mishma s |
| Sprint-1 | | USN-3 | As a user, I can register for the application through Gmail or any kind of mail or Facebook | 2 | Medium | Anu Mol |
| Sprint-1 | Login | USN-4 | As a user, I can log into the application by entering email & password | 1 | High | Sharon Hepsi Bella |
| Sprint-1 | Analysis and estimation (Working and loading the dataset) | USN-5 | As a user, I can view the resource i.e.,dataset that is being uploaded or loaded in a platform called IBM Cognos Analytics with Watson services to view and analyse the data. | 14 | High | Esther Baby |
| Sprint-2 | Analysis and estimation (Data Visualization Charts) | USN-6 | As a user, I can visualize a the data of crop production to know the insights where average crop production by seasons, the yearly usuage of area in crop production, top 10 states in crop yield production by area, the crop production by state and the states with seasonal crop production can be known | 20 | High | Mishma s |

| Sprint -3 | Dashboard | USN-7 | As a user, I can use Cognos Analytics with Watson Services,An interactive dashboard must be created and viewed. | 20 | High | Anumol |
| Sprint-4 | Analysis and estimation(Exportation / export the analytics) | USN-8 | As a user, I can view the dashboard and visulaization of crop production that is being exported either through email/link/pdf. | 20 | High | Sharon Hepsi Bella |

## 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)

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

**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.