# Project Planning Phase

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

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|---|---|
| Date | 07 November 2022 |
| Team ID | PNT2022TMID03011 |
| 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 | Working with the data set | USN-1 | Understanding the data set . | 10 | Medium | Sneha |
| Sprint-1 | Working with the data set | USN-2 | Loading the data set. | 10 | High | Sindhuja |
| Sprint-2 | Prepare the data | USN-3 | Convert the data into required format | 10 | Medium | Sree Nandini |
| Sprint-2 | Data exploration | USN-4 | Explore the data's which is uploaded in the IBM cognos | 10 | Medium | Shrinithi |
| Sprint-3 | Data visualization | USN-5 | Creating the data visualization chart | 10 | High | Sindhuja |
| Sprint-3 | Dashboard | USN-6 | Creating a dashboard | 10 | High | Sree Nandini |
| Sprint-3 | Visualization | USN-7 | Visualization using python | 10 | High | Sree Nandini |
| Sprint-4 | Report | USN-8 | Creating the report | 10 | High | Shrinithi |
| Sprint-4 | Export | USN-9 | Export the report to the Github | 20 | High | Sneha |

**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 | 4 Days | 01 Nov 2022 | 04 Nov 2022 | 20 | 08 - 09 Nov 2022 |
| Sprint-2 | 20 | 5 Days | 05 Nov 2022 | 10 Nov 2022 | 20 | 10 - 13 Nov 2022 |
| Sprint-3 | 20 | 4 Days | 11 Nov 2022 | 14 Nov 2022 | 20 | 14 - 16 Nov 2022 |
| Sprint-4 | 20 | 4 Days | 15 Nov 2022 | 19 Nov 2022 | 20 | 17 - 19 Nov 2022 |

**Velocity:**
Imagine we have a 4-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)

Total sprint points=90

Total sprint=4

Average velocity=90/4=22.5