

Project Planning Phase

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

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|---------------|--|
| Date | 18 October 2022 |
| Team ID | PNT2022TMID23348 |
| 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 & Login | USN-1 | As a user, I can register for the application by entering my email, password, and confirming my password. | 2 | High | Mahalakshmi V Mahalakshmi L Keerthana C Ramya V S |
| Sprint-1 | Working with dataset (Removal of outliers etc) | USN-2 | Providing dataset with all the required components. | 2 | High | Mahalakshmi V Mahalakshmi L Keerthana C Ramya V S |
| Sprint-1 | Visualizing the data (Top 10 states with most area) | USN-3 | Ensuring that the required fields for visualizing the given dataset are provided by us. | 1 | High | Mahalakshmi V Mahalakshmi L Keerthana C Ramya V S |
| Sprint-2 | Dashboard creation | USN-4 | Make use of the dashboard to see the results of the crop production in respective areas. | 2 | Low | Mahalakshmi V Mahalakshmi L Keerthana C Ramya V S |
| Sprint-1 | Export the analytics | USN-5 | The dashboard is shared as mail or link or pdf such that crop production results can be displayed to others. | 2 | Medium | Mahalakshmi V Mahalakshmi L Keerthana C Ramya V S |

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 | 10 | 29 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 10 | 05 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 10 | 12 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 10 | 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)

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

