

Project Planning Phase

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

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|---------------|---|
| Date | 18 November 2022 |
| Team ID | PNT2022TMID19924 |
| Project Name | Estimation of 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 | user can register for the application by entering my email and password | 1 | High | SRINITHI M |
| Sprint-1 | Registration | USN-2 | User will receive email if the registration is successful. That the registration has conformed | 1 | High | SRINITHI M |
| Sprint-2 | Registration | USN-3 | As a user, I can register by any browser. | 2 | Low | ASHOK KUMAR E |
| Sprint-1 | Data extract | USN-4 | As a user, I can extract data | 1 | Medium | HARIPRAKASH B |
| Sprint-1 | Login | USN-5 | As a user, I can log into the application by entering email & password | 2 | High | ASHOK KUMAR E |
| Sprint-2 | Dashboard | USN-6 | I can access the dashboard of mine. | 1 | Medium | HARIPRAKASH B |
| Sprint-1 | Activity | USN-7 | I can register for the application through any web browser. | 1 | low | ASHOK KUMAR E |
| Sprint-1 | Access resources | USN-8 | I can use my credentials For accessing my resources. | 1 | high | SRINITHI M |

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|----------|------------|--------|---|---|------|------------|
| Sprint-2 | Set events | USN-9 | As, a user I can schedule events and set events. | 1 | high | PRABHARAN |
| Sprint-3 | Tools | USN-10 | I can perform analysis by tools(cognos and with ML) | 1 | high | PRABAHARAN |

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.

