

Project Planning Phase

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

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| Date | 25 October 2023 |
| Team ID | NM2023TMID07251 |
| Project Name | Aquatic Insights: Cognos -Powered Water Portability Analysis |
| 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 | |
| Sprint-2 | | USN-2 | As a user, I will receive confirmation email once I have registered for the application | 1 | High | |
| Sprint-3 | | USN-3 | As a user, I can register for the application through SmartInternz | 2 | Low | |
| Sprint-3 | | USN-4 | As a user, I can register for the application through SmartInternz provided email id. | 2 | Medium | |
| Sprint-4 | Login | USN-5 | As a user, I can log into the application by entering email & password | 1 | High | |
| Sprint-4 | Dashboard | | | | | |
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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 | 1 Days | 16 Oct 2023 | 16 Oct 2023 | 16 Oct 2023 | 16 Oct 2023 |
| Sprint-2 | 20 | 1 Days | 17 Oct 2023 | 17 Oct 2023 | 17 Oct 2023 | 17 Oct 2023 |
| Sprint-3 | 20 | 1 Days | 18 Oct 2023 | 18 Oct 2023 | 18 Oct 2023 | 18 Oct 2023 |
| Sprint-4 | 20 | 1 Days | 19 Oct 2023 | 19 Oct 2023 | 19 Oct 2023 | 19 Oct 2023 |
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Velocity:

Imagine we have a 6-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)

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{6} = 3.4$$

Burndown Chart:

A burn down chart is a graphical representation of the amount of work remaining versus the amount of time available. It's frequently used in agile software development approaches like Scrum. Burn down charts, on the other hand, can be applied to any project with verifiable progress over time.

Reference:

<https://www.kaggle.com/code/khsamaha/potable-water-prediction-0-798-with-caret-rf-r/input>