

## Project Planning Phase

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

|               |                                    |
|---------------|------------------------------------|
| Date          | 06 November 2023                   |
| Team ID       | NM2023TMID08426                    |
| Project Name  | Project -Project planning Template |
| 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     | 4            |
| Sprint-1 |                               | USN-2             | As a user, I will receive confirmation email once I have registered for the application                   | 1            | High     | 4            |
| Sprint-2 |                               | USN-3             | As a user, I can register for the application through Facebook  | 2            | Low      | 4            |
| Sprint-1 |                               | USN-4             | As a user, I can register for the application through Gmail   | 2            | Medium   | 4            |
| Sprint-1 | Login                         | USN-5             | As a user, I can log into the application by entering email & password                                    | 1            | High     | 4            |
|          | Dashboard                     |                   |   |              |          |              |
|          |                               |                   |   |              |          |              |
|          |                               |                   |   |              |          |              |

### Project Tracker, Velocity & Burndown Chart: (4 Marks)

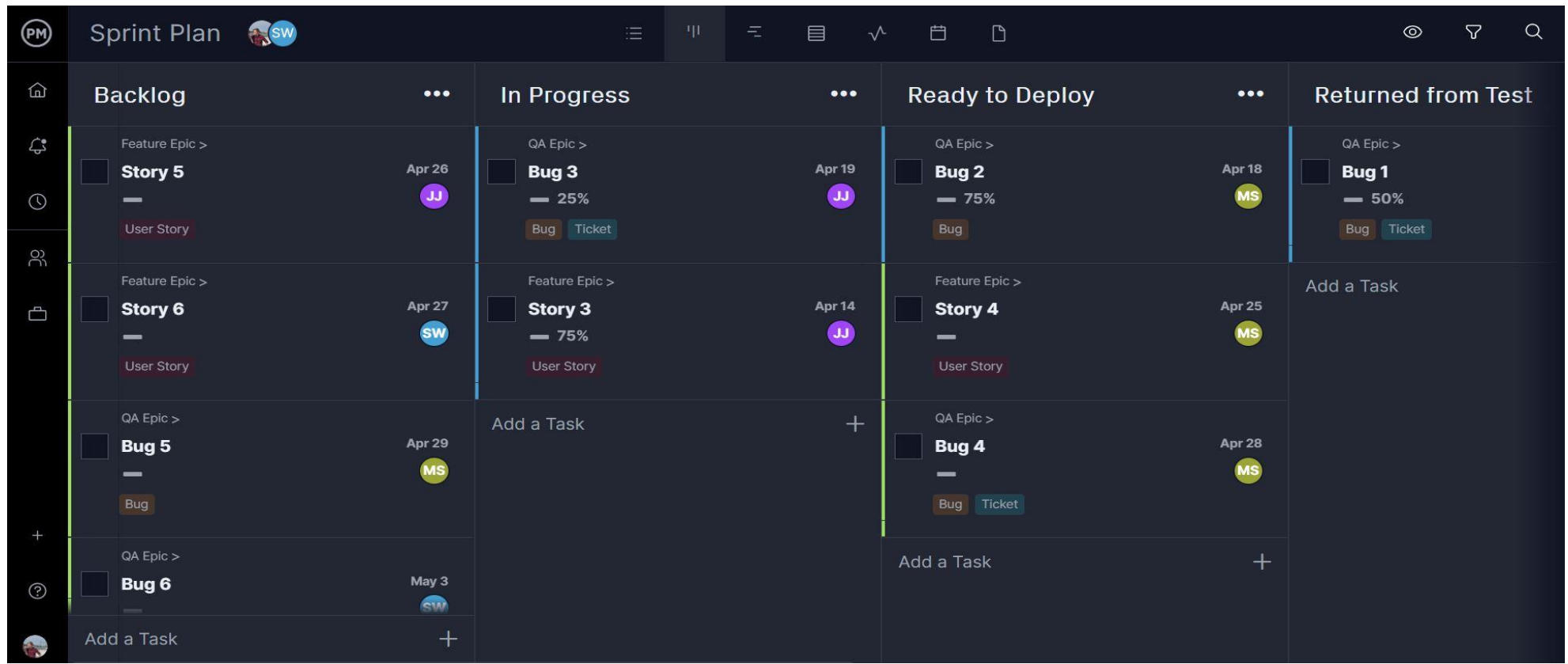
| Sprint   | Total Story Points | Duration | Sprint Start Date | Sprint End Date(Planned) | Story Points Completed (as on Planned End Date) | Sprint Release Date(Actual) |
|----------|--------------------|----------|-------------------|--------------------------|---|-----------------------------|
| Sprint-1 | 20                 | 6 Days   | 24 Oct 2022       | 29 Oct 2023              | 20  | 29 Oct 2023                 |
| Sprint-2 | 20                 | 6 Days   | 31 Oct 2022       | 05 Nov 2023              | 20  | 31 Oct 2023                 |
| Sprint-3 | 20                 | 6 Days   | 07 Nov 2022       | 12 Nov 2023              | 20  | 12 Nov 2023                 |
| Sprint-4 | 20                 | 6 Days   | 14 Nov 2022       | 19 Nov 2023              | 20  | 14 Nov 2023                 |
|          |                    |          |                   |                          |   |                             |
|          |                    |          |                   |                          |   |                             |
|          |                    |          |                   |                          |   |                             |
|          |                    |          |                   |                          |   |                             |

### Product backlog:

The product backlog is a list that compiles all the tasks and user stories that must be done to complete the whole project. But it's not just a simple task list. An effective product backlog breaks down each of the backlog items into a series of steps that help the development team.

The product backlog is very important for [product management](#), the implementation of agile and it's also one of the seven scrum artifacts, which shape the scrum methodology. But even if it's been planned out, the product backlog is not set in stone. Like most aspects of agile project management, there are going to change. Flexibility is crucial.

Example:



### Sprint planning:

Sprint planning is an event in scrum that kicks off the sprint. The purpose of sprint planning is to define what can be delivered in the sprint and how that work will be achieved. Sprint planning is done in collaboration with the whole scrum team.

## Diagram:



## Velocity:

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

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).

## Burndown Chart:

A burndown chart shows the amount of work that has been completed in an epic or sprint, and the total work remaining. Burndown charts are used to predict your team's likelihood of completing their work in the time available. They're also great for keeping the team aware of any scope creep that occurs.

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.

