# Project Planning Phase

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

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| --- | --- |
| Date | 15 September 2022 |
| Team ID | PNT2022TMID28314 |
| Project Name | Project - TRIP BASED FUEL CONSUMPTION PREDICTION |
| 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 using email and password | 4 | High | Serene gladya G |
| Sprint-2 |  | USN - 2 | As a user, I can register using Gmail | 2 | Medium | Sneka A |
| Sprint-1 |  | USN - 3 | As a user, I will receive conﬁrmation email once I have  registered for the application | 1 | Low | Serene gladya G |
| Login | USN - 4 | As a user, I can login to my dashboard through email id and password | 2 | High | SherylPricilla J |
| Dashboard | USN - 5 | I can access my account details on dashboard | 1 | Low | Sneka A |
| Sprint-2 | Prediction Model | USN - 6 | Once I enter the dashboard I can input values for a  single sample prediction | 8 | High | Sneka A |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint-3 |  | USN - 7 | I can input values via excel sheet for multiple sample  prediction as per the template and perform prediction | 6 | Medium | Sneka A |
|  | USN - 8 | As a user I can get visual representation of the  prediction | 4 | Medium | Sharmila Devi K |
| Report Generation | USN - 9 | As a user I can view the detailed report of my prediction | 3 | High | Swethaa R |
| Sprint-4 | RestAPI | USN - 10 | As a developer, I can use API Token to send request to  the server | 3 | Low | Sheryl Priscilla J |
| Documentation | USN - 11 | As a user I can refer to the documentation and user  manual for support and guidance | 4 | High | Sharmila Devi K |
|  | USN - 12 | As a developer, I can refer to technical Documentation for understanding the application ﬂow | 6 | Medium | Swethaa R |

## 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 | 8 | 6 Days | 24 Oct 2022 | 29 Oct 2022 |  |  |
| Sprint-2 | 10 | 6 Days | 31 Oct 2022 | 05 Nov 2022 |  |  |
| Sprint-3 | 13 | 6 Days | 07 Nov 2022 | 12 Nov 2022 |  |  |
| Sprint-4 | 13 | 6 Days | 14 Nov 2022 | 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 = Velocity / Sprint duration**

|  |  |
| --- | --- |
| Sprint | Average Velocity |
| Sprint 1 | 1.33 |
| Sprint 2 | 1.67 |
| Sprint 3 | 2.17 |
| Sprint 4 | 2.17 |

**Total Average Velocity = 1.83**

# Burndown Chart:

A burndown chart is a graphical representation of work left to do versus time. It is often used in agile [software](https://www.visual-paradigm.com/scrum/what-is-agile-software-development/)

[development](https://www.visual-paradigm.com/scrum/what-is-agile-software-development/) methodologies such as [Scrum](https://www.visual-paradigm.com/scrum/scrum-in-3-minutes/). However, burn down charts can be applied to any project containing measurable progress over time.

