Project Planning Phase

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

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| --- | --- |
| Date | 19 November 2022 |
| Team ID | PNT2022TMID23524 |
| Project Name | Smart Solutions for Railways |
| 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 passenger, I want to create a login credentials so I can securely access myself service online account. | 15 | High | Kaviya sree M, Niranjanaa D S, Shakthi C, Varshini Bala B |
| Sprint-1 | Ticket Conformation | USN-2 | As a passenger, I want to check my ticket whether it is conformed or not. | 5 | Medium | Kaviya sree M, Niranjanaa D S, Shakthi C, Varshini Bala B |
| Sprint-2 | Payment | USN-3 | As a passenger, I want to pay my ticket cost in online payment | 15 | High | Kaviya sree M, Niranjanaa D S, Shakthi C, Varshini Bala B |
| Sprint-3 | Booking Status | USN-4 | As a passenger, I want to check my ticket once it is conformed. | 5 | Medium | Kaviya sree M, Niranjanaa D S, Shakthi C, Varshini Bala B |
| Sprint-4 | Updating Train Information | USN-5 | As an admin, I want to check the trains details like when will train reach stations and update Train information. | 10 | Medium | Kaviya sree M, Niranjanaa D S, Shakthi C, Varshini Bala B |

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| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint-3 | Verifying Tickets | USN-6 | As a TC, I want to check the users whether he/she have tickets or not with scanning the QR Code | 15 | High | Kaviya sree M, Niranjanaa D S, Shakthi C, Varshini Bala B |
| Sprint-2 | Knowing Current Location details | USN-7 | As a passenger, I want to know the train current location. | 5 | Low | Kaviya sree M, Niranjanaa D S, Shakthi C, Varshini Bala B |
| Sprint-4 | Raise a compliant | USN-8 | As a user, I should able to raise a ticket if something is wrong | 10 | Medium | Kaviya sree M, Niranjanaa D S, Shakthi C, Varshini Bala B |

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

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| --- | --- | --- | --- | --- | --- | --- |
| **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)



# 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](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.

