**Project Planning Phase**

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

|  |  |
| --- | --- |
| Date | 24.09.2022 |
| Team ID | PNT2022TMID41917 |
| Project Name | Smart Solution for Railways |
| Maximum Marks | 8 Marks |

## Product Backlog, Sprint Schedule, and Estimation (4 Marks)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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. | 10 | High | Dinesh kumar.M  Sabarinathan.R |
| Sprint-1 |  | USN-2 | As a user, I will receive confirmation email once I have registered for the application and can login to the application | 10 | High | Prabhakaran.P  Mythili.S |
| Sprint-2 | Ticket Reservation and tracking | USN-3 | As a user I can enter my details and book tickets. | 15 | High | Alaguraja.R  Dinesh kumar.M |
| Sprint-2 |  | USN-4 | As a user, I can track the exact location of the train | 5 | Medium | Sabarinathan.R  Prabhakaran.P |
| Sprint-3 | Connection with service provider | USN-5 | As a User , I can utilize the services like payment gateways by receiving OTPs | 10 | High | Mythili.S  Alaguraja.R |
| Sprint-3 | Queue Clearance | USN-6 | As a user, I can use the automatic waiting list clearance | 10 | Medium | Dinesh kumar.M  Sabarinathan.R |
| Sprint-4 | QR code generation | USN-7 | As a user , I am able to get a QR code for ticket verification | 20 | High | Mythili.S  Alaguraja.R  Dinesh kumar.M  Sabarinathan.R  Prabhakaran.P |

**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 |  |  |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 |  |  |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 |  |  |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 |  |  |

**Velocity:**

We have a 6-day sprint duration, and the velocity of the team is 20 (points per sprint). The team’s average velocity (AV) per iteration unit (story points per day)

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**Burndown Chart:**

