**Project Planning Phase**

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

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| --- | --- |
| Date | 28 October 2022 |
| Team ID | PNT2022TMID47580 |
| Project Name | Smart Solutions 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 Passenger, I can register for the application by entering my email, password, and confirming my password. | 7 | High | S.Ramakrishnan, |
| Sprint-1 |  | USN-2 | As a Passenger, I will receive confirmation email once I have registered for the application | 7 | High | M.Vishnu |
| Sprint-1 | Login | USN-3 | As a Passenger, I can log into the application by entering email & password | 6 | High | S.Ramakrishnan, M.Vishnu |
| Sprint-2 | Books Ticket | USN-4 | I can select the Train and the train route to be travelled. | 4 | Medium | G.Suriyakrishna, T.Sabarinathan |
| Sprint-2 |  | USN-5 | I provide the basic details such as name, age, mobile number, etc. | 6 | High | G.Suriyakrishna, T.Sabarinathan |
| Sprint-2 | Selecting the Seat | USN-6 | After providing the basic information, I can select the desired seat I wanted if it is in available state. | 4 | Medium | G.Suriyakrishna, T.Sabarinathan |
| Sprint-2 | QR Code Generation | USN-7 | At last the QR Code is generated which contains the unique id through which the passenger information can be retrieved. | 6 | High | G.Suriyakrishna, T.Sabarinathan |
| Sprint-4 | Tracking the location of Train | USN-8 | As a Passenger, I can track the exact current location of the train. | 13 | Medium | G.Suriyakrishna, T.Sabarinathan  M.Vishnu  S.Ramakrishnan |  |  |  |  |  |  |
| Sprint-3 | Login | USN-9 | As a Administrator, I can log into the application by entering email & password | 6 | Medium | G.Suriyakrishna, T.Sabarinathan  M.Vishnu |  |  |  |  |  |  |
| Sprint-4 | Cancel the Booking | USN-10 | As a Administrator, I can Cancel the Ticket if the information of the passenger is inappropriate. | 7 | Low | G.Suriyakrishna, T.Sabarinathan  M.Vishnu  S.Ramakrishnan |  |  |  |  |  |  |
| Sprint-3 | TTR Verifies the Passenger | USN-11 | As a Ticket Checker, I can scan the QR Code shown by the passenger. | 7 | High | G.Suriyakrishna, T.Sabarinathan  M.Vishnu |  |  |  |  |  |  |
| Sprint-3 |  | USN-12 | As a Ticket Checker, I can verify the passenger using the information that displayed after scanning the QR Code. | 7 | High | G.Suriyakrishna, T.Sabarinathan  M.Vishnu |  |  |  |  |  |  |

| **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 | 30Oct 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 20 | 06 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 20 | 13 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 20 | 20 Nov 2022 |

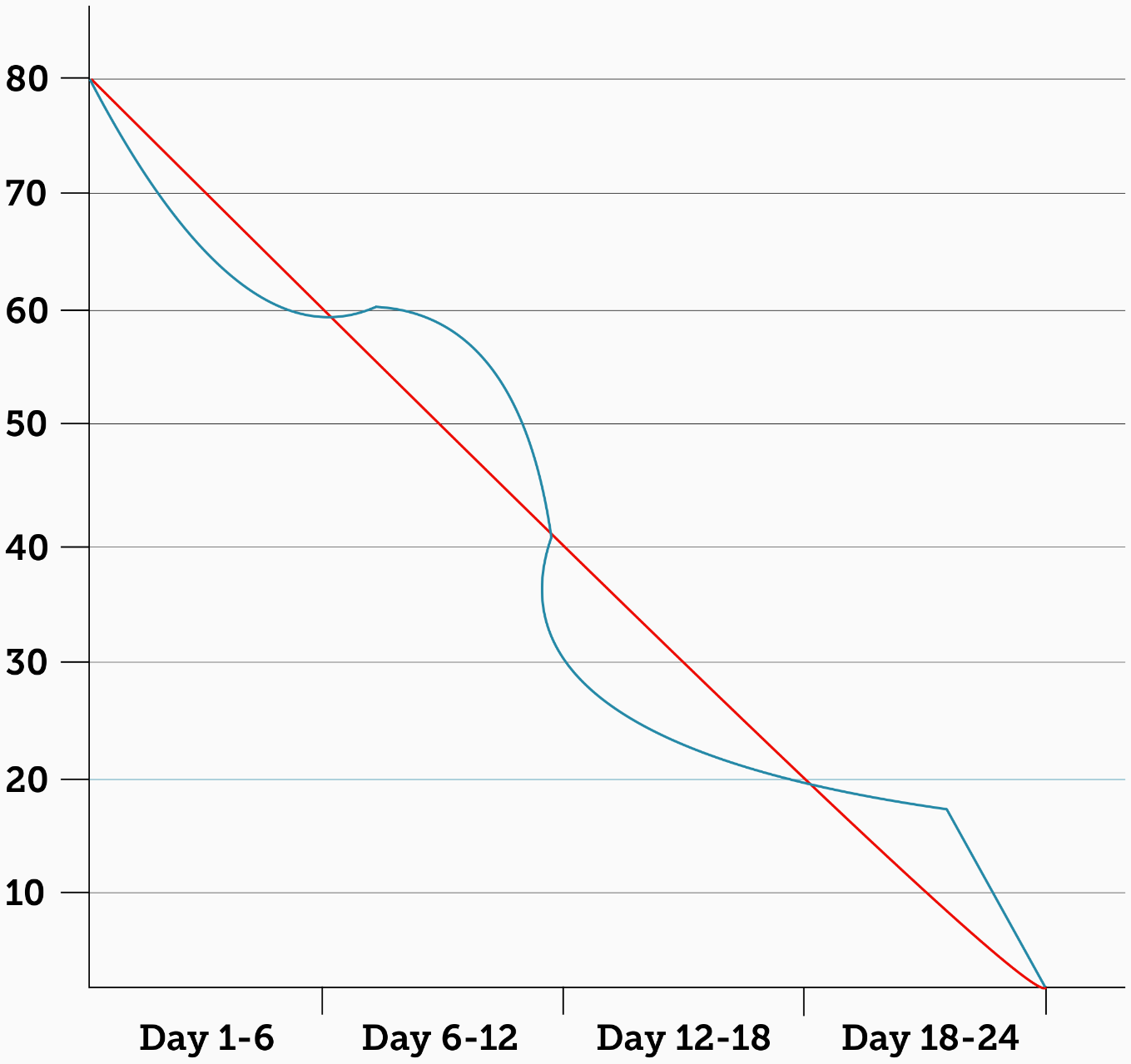
**Project Tracker, Velocity & Burndown Chart: (4 Marks )**

**Burndown Chart:**

**Final Dataset:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Points** | **Day 1** | **Day 2** | **Day 3** | **Day 4** | **Day 5** | **Day 6** | **Total** |
| **1** | **20** | **7** | | **7** | | **6** | | **20** |
| **2** | **20** | **6** | | **4** | **6** | | **4** | **20** |
| **3** | **20** | **6** | | **7** | | **7** | | **20** |
| **4** | **20** | **7** | | | **13** | | | **20** |

**Chart:**

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