***Project Planning Phase***

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

|  |  |
| --- | --- |
| ***Date*** | 06 November 2022 |
| ***Team ID*** | PNT2022TMID26022 |
| ***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 | R.Makesh Raaj |
| ***Sprint-1*** |  | USN-2 | As a Passenger, I will receive confirmation email once I have registered for the application | 7 | High | J.Nithin Jerontius |
| ***Sprint-1*** | ***Login*** | USN-3 | As a Passenger, I can log into the application by entering email & password | 6 | High | R.Makesh Raaj ,  E.Raghul |
| ***Sprint-2*** | ***Books Ticket*** | USN-4 | I can select the Train and the train route to be travelled. | 4 | Medium | J.Nithin Jerontius ,  E.Raghul |
| ***Sprint-2*** |  | USN-5 | I provide the basic details such as name, age, mobile number, etc. | 6 | High | R.Makesh Raaj,  S.Mohammed Muzammil |
| ***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 | S.Mohammed Muzammil,  E.Raghul |
| ***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 | J.Nithin Jerontius ,  S.Mohammed Muzammil |
| ***Sprint-4*** | ***Tracking the location of Train*** | USN-8 | As a Passenger, I can track the exact current location of the train. | 13 | Medium | R.Makesh Raaj ,  J.Nithin Jerontius ,  E.Raghul ,  S.Mohammed Muzammil |  |  |  |  |  |  |
| ***Sprint-3*** | ***Login*** | USN-9 | As a Administrator, I can log into the application by entering email & password | 6 | Medium | J.Nithin Jerontius ,  E.Raghul ,  S.Mohammed Muzammil |  |  |  |  |  |  |
| ***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 | R.Makesh Raaj ,  J.Nithin Jerontius ,  E.Raghul ,  S.Mohammed Muzammil |  |  |  |  |  |  |
| ***Sprint-3*** | ***TTR Verifies the Passenger*** | USN-11 | As a Ticket Checker, I can scan the QR Code shown by the passenger. | 7 | High | R.Makesh Raaj ,  J.Nithin Jerontius ,  S.Mohammed Muzammil |  |  |  |  |  |  |
| ***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 | R.Makesh Raaj ,  J.Nithin Jerontius ,  E.Raghul ,  S.Mohammed Muzammil |  |  |  |  |  |  |

| ***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 |

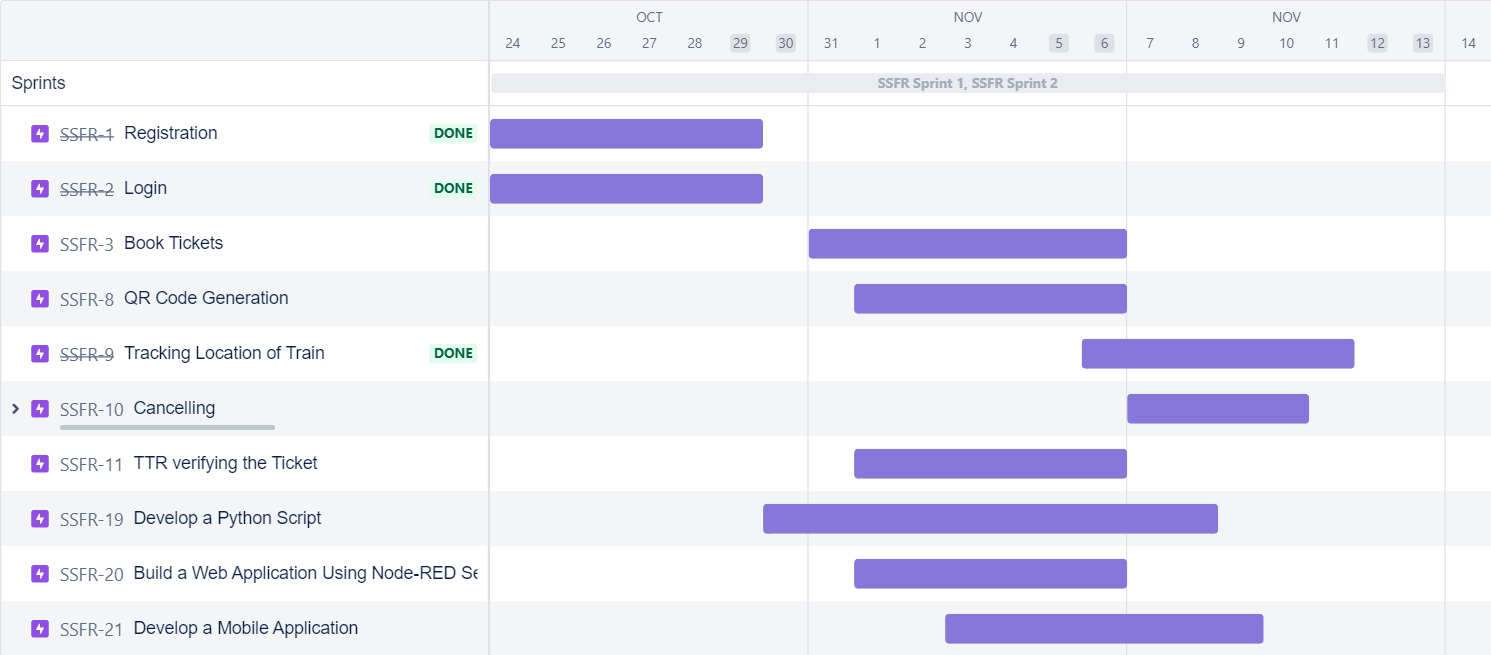
***Project Tracker, Velocity & Burn down Chart: (4 Marks )***

**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** |

**Roadmap Chart:**

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