Project Planning Phase

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

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| **Date** | **18 October 2022** |
| **Team ID** | **PNT2022TMID03711** |
| **Project Name** | **Smart Solutions For Railways** |
| **Maximum Marks** | **8 Marks** |

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

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| **Sprint** | **Functional**  **Requirement (Epic)** | **User Story**  **Number** | **User Story / Task** | **Story Points** | **Priority** |
| **SPRINT 1** | | | | | |
| **Sprint-1** | **Login** | **USN-1** | **As a Developer, I can create the login page with email & password using Node-Red App.** | **2** | **Medium** |
| **Sprint-1** | **Dashboard** | **USN-2** | **As a Developer, I can create a search box for the**  **trains and seat availability.** | **6** | **High** |
| **Sprint-1** | **Booking the Tickets** | **USN-3** | **As a Developer, I can provide a facility to book the train ticket according to user preference.** | **6** | **High** |
| **Sprint-1** | **QR code Generation** | **USN-4** | **As a Developer, I can write a code to view and**  **download the QR code for the Booked Ticket.** | **6** | **High** |
| **SPRINT 2** | | | | | |
| **Sprint-2** | **Login for TTE** | **USN-1** | **As a Developer,I can create the login page for TTE with email and password using the Node-red app.** | **6** | **High** |
| **Sprint-2** | **Dashboard** | **USN-2** | **As a Developer,I can create a drop down box for the number of passengers on boarded and**  **remaining number of passengers yet to be boarded** | **6** | **High** |

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| **Sprint** | **Functional**  **Requirement (Epic)** | **User Story**  **Number** | **User Story / Task** | **Story Points** | **Priority** |
| **Sprint-2** | **Passenger Details** | **USN-3** | **As a developer,I can provide a feature to view the passenger details which are stored in the Cloud**  **and are retrieved and displayed in the webpage.** | **2** | **Medium** |
| **Sprint-2** | **Ticket verification** | **USN-4** | **As a developer,I can provide a verification mechanism to check the integrity of QR code and the passenger details.** | **6** | **High** |
| **SPRINT 3** | | | | | |
| **Sprint-3** | **Collaboration** | **USN-1** | **As a developer, I will provide a smooth way to book the ticket through a website and also to refund if the passenger cancels the ticket.** | **6** | **High** |
| **Sprint-3** | **Verifying the passenger details** | **USN-2** | **As a developer, I will check whether the passenger is taking his/her journey with a proper confirmed**  **ticket.** | **6** | **High** |
| **Sprint-3** | **Identification of the passenger** | **USN-3** | **As a developer, I will make sure that the**  **on-boarded passenger is not involved in any travel fraudulently.** | **2** | **Medium** |
| **Sprint-3** | **Verifying the tickets** | **USN-4** | **As a developer, I will scan the QR code generated**  **by python code to extract and verify the passenger details.** | **6** | **High** |
| **SPRINT 4** | | | | | |
| **Sprint-4** | **Tracking webpage** | **USN-1** | **As a developer , I can create web page to view train status using Node RED** | **6** | **High** |
| **Sprint-4** | **Live location details** | **USN-2** | **As a developer I can extract details from IoT**  **device using python code and IBM watson.** | **6** | **High** |
| **Sprint-4** | **Retrieving from cloud** | **USN-3** | **As a developer, I can upload the details to cloud and display it to user by connecting it with Node RED application.** | **6** | **High** |

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| **Sprint** | **Functional**  **Requirement (Epic)** | **User Story**  **Number** | **User Story / Task** | **Story Points** | **Priority** |
| **Sprint-4** | **Sending updates** | **USN-4** | **As a passenger ,I would like to receive updates over my train status during my journey via fast SMS or App notification.** | **2** | **Medium** |

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** |
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