**Project Design Phase-II**

**Data Flow Diagram & User Stories**

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| Date | 16 October 2022 |
| Team ID | PNT2022TMID47580 |
| Project Name | Smart Solutions for Railways |
| Maximum Marks | 4 Marks |

**Data Flow Diagrams:**

Select the Seat Number

Registration

Passenger

Provide the Required Information

Select the Train

Login

Administrator

Database

Generates the QR Code

Retrieve and verify the passenger information

Scans the QR Code

Cancel the Ticket

Ticket Checker

**User Stories**

| **User Type** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Acceptance criteria** | **Priority** | **Release** |
| --- | --- | --- | --- | --- | --- | --- |
| Passenger | Registration | USN-1 | As a Passenger, I can register for the application by entering my email, password, and confirming my password. | I can access my account / dashboard | High | Sprint-1 |
|  |  | USN-2 | As a Passenger, I will receive confirmation email once I have registered for the application | I can receive confirmation email & click confirm | High | Sprint-1 |
|  | Login | USN-3 | As a Passenger, I can log into the application by entering email & password | I can access my account / dashboard | High | Sprint-1 |
|  | Books Ticket | USN-4 | I can select the Train and the train route to be travelled. | I can see the Train Name and Its route in the form. | Medium | Sprint-2 |
|  |  | USN-5 | I provide the basic details such as name, age, mobile number, etc. | I can see the Basic Information in the form. | High | 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. | I can see that the seat is selected for booking. | Medium | 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. | I can receive the QR Code which I can be screenshotted. | High | Sprint-2 |
|  | Tracking the location of Train | USN-8 | As a Passenger, I can track the exact current location of the train. | I can view the exact location of the train. | Medium | Sprint-4 |
| Administrator | Login | USN-9 | As a Administrator, I can log into the application by entering email & password | I can access my account/ dashboard | Medium | Sprint-3 |
|  | Cancel the Booking | USN-10 | As a Administrator, I can Cancel the Ticket if the information of the passenger is inappropriate. | I can receive confirmation message about the cancellation of the ticket. | Low | Sprint-4 |
| Ticket Checker | TTR Verifies the Passenger | USN-11 | As a Ticket Checker, I can scan the QR Code shown by the passenger. | I can see the passenger information in application. | High | Sprint-3 |
|  |  | USN-12 | As a Ticket Checker, I can verify the passenger using the information that displayed after scanning the QR Code. | I can verify that the passenger information is matching with the information shown by the QR Code. | High | Sprint-3 |