Project Design Phase-II
Data Flow Diagram & User Stories

Team ID	PNT2022TMID37954
Project Name	Project –Smart Solutions for Railways

Data Flow Diagrams:

Railways Reservation system data flow diagrams is often used as preliminary step to create an overview of the Railway reservation without into great detail. Which can later be elaborated. It normally consists of overall application dataflow and process of the Railway reservation process. It contains all of the user flow and their entities such all the flow of Train, Ticket booking, Train schedule and Customer.

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┌──────────────────────────┐                    ┌──────────────────────────┐
│ Inquire transport details│───────────────────▶│   Route information and  │
└──────────────────────────┘                    │      train delay         │
        │                                        └──────────────────────────┘
        │                                                   │
        ▼                                                   │
┌──────────────────┐      ┌──────────────────┐              │
│  Ticket booking  │◀─────│ Payment methods  │              │
└──────────────────┘      └──────────────────┘              │
        │                         │                         │
        │                         ▼                         ▼
        │                  ┌──────────────┐       ┌──────────────────────┐
        │                  │     USER     │──────▶│ Railway live stastics│
        │                  └──────────────┘       └──────────────────────┘
        ▼
┌──────────────┐
│   QR Code    │
└──────────────┘
        │
        │        ┌────────────────────────┐      ┌──────────────────────────┐
        └───────▶│ Passengers information │─────▶│   Check passengers       │
                 └────────────────────────┘      │ information with the     │
                                                 │ generate QR code         │
                                                 └──────────────────────────┘
```
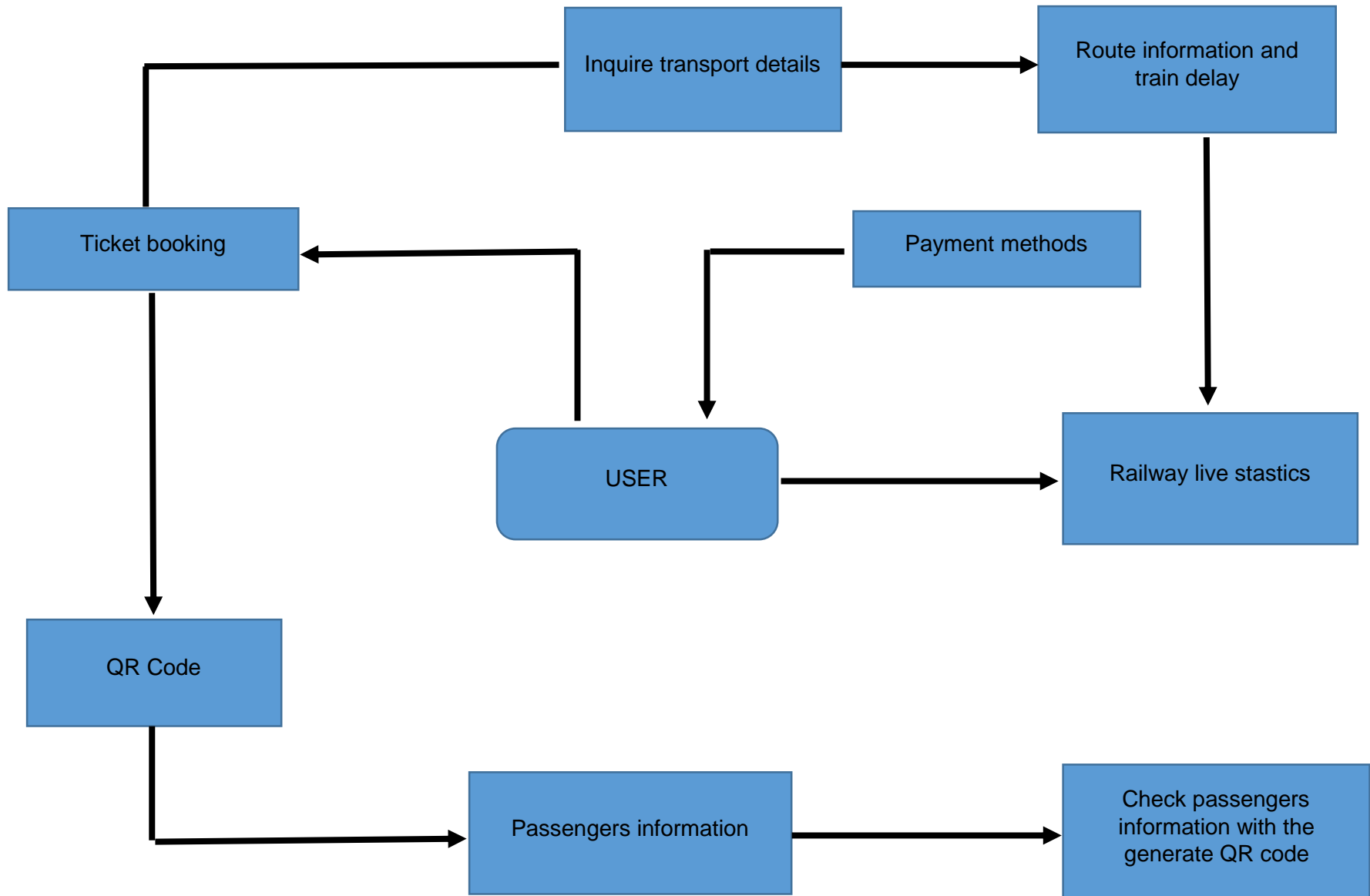
User Type	Functional Requirement	User Story	User Story / Task	Acceptance criteria	Priority	Release
Passengers (Mobile Users)	Ticket booking	USN-1	The user can book ticket with the help of travel agency by providing the necessary details	Once ticket is booked successfully the booked ticket will be sent through Whatsapp or mail	High	Sprint-1
		USN-2	Ticket booking can be done through mobile app by entering the required details	Booking will be done after the payment and confirmation will be received through email	High	Sprint-1
Passengers	Ticket booking	USN-3	Passenger can login to the website with their email and password and can book ticket	Ticket booking confirmation will be received through email	High	Sprint-1
Customer care Executive	Helping the passengers		Dealing with passenger issues	They can directly handling the passengers complaints	Medium	Sprint-1
Railway Executive	To generate the QR code		They have to develop the code to generate the QR code	The generated QR code will be used by the ticket collector to check the booking details of passengers without hard copy of the documents	High	Sprint -II
Technologist	Development of mobile application to track the train location		Mobile application has to be developed using cloud network and by using GPS system in the train to track its location	The mobile app will be used to know the live train status which will be help us to the passenger and their relatives and friends	High	Sprint -III
Technologist	To test the developed system		The entire railway ticket reservation system has to be tested whether it is functioning properly	The system acceptance rate is high if it works accurately	High	Sprint -IV