

PROJECT DESIGN PHASE – I

Solution Architecture

Date	01 October 2022
Team ID	PNT2022TMID08702
Project Name	Smart Solutions for Railways
Maximum Marks	4 marks

SOLUTION ARCHITECTURE

The customer interacts with the system through the front-end by making requests which are processed through the PHP, which is the middle tier. The system is executed on a central server and all clients communicate with it. A client handles customer interface while server handle's function and operations of relevant components. All data is resident on the system server, which has the ability to interact with several clients at the same time by running several processes concurrently. Some of the processing undertaken includes verification, validations, manipulations, request processing.

TICKET BOOKING

The system offers a seat reservation system for the user where the user can choose the particular section or seat where he/she wants to reserve the seats and shows the already reserved seats.

GENERATION OF QR CODE

After the reserving the seats and successful transaction, QR code will generated to the user which contains the unique ID.

SCANNING OF QR CODE

The generated QR code is scanned by the ticket collector at the time of boarding onto the train to confirm the reservation and to access their previous journey details.

SOLUTION ARCHITECTURE DIAGRAM

