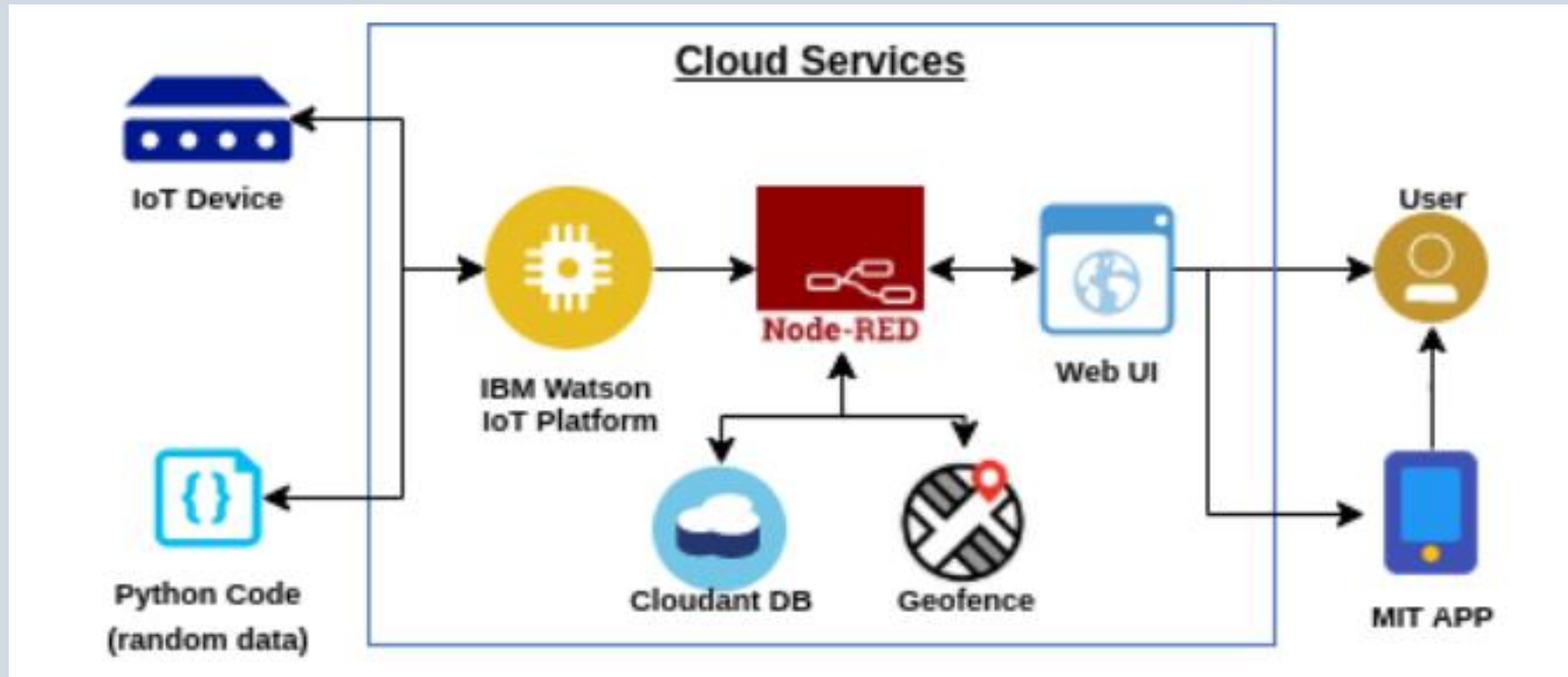
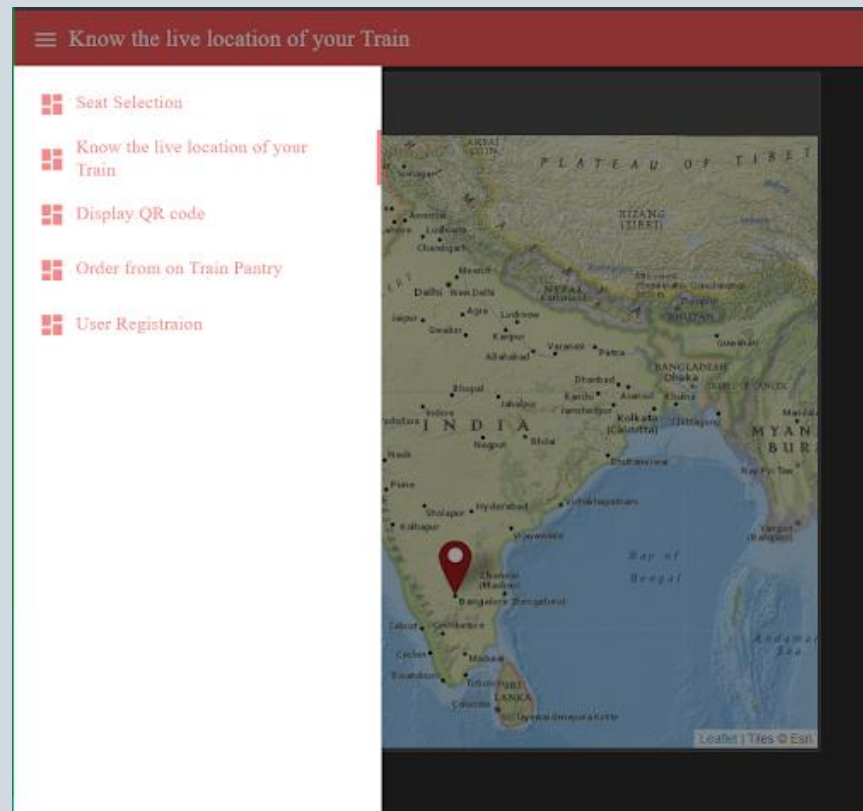

Smart Solutions For Railways Based On IoT

Work Flow of the project



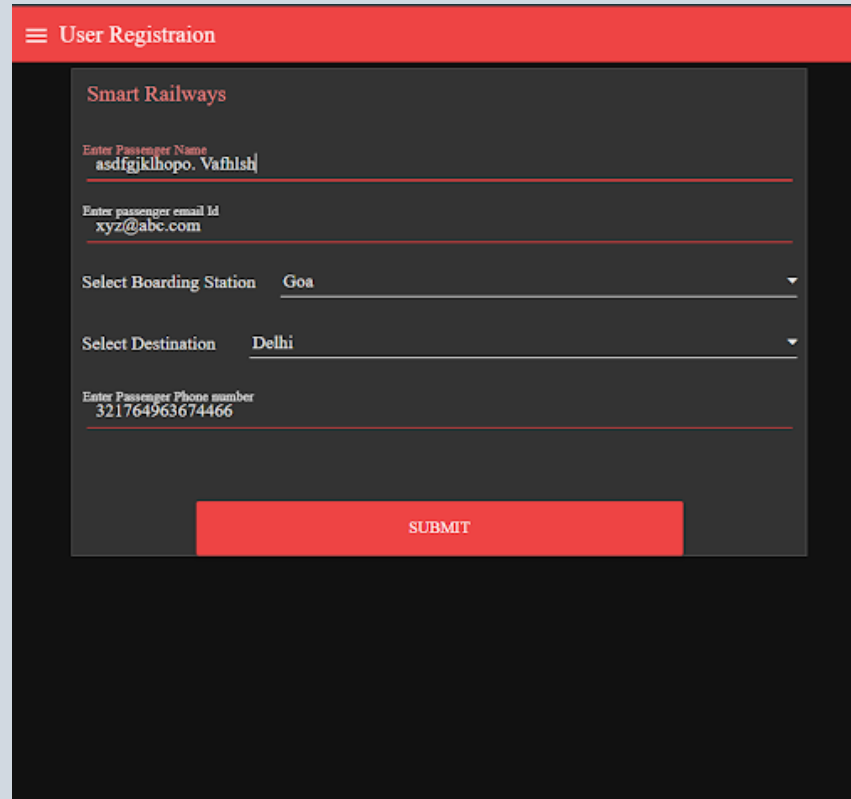
Web app Interface

- Interface contains options like user registration, Display QR code, tracking, order from pantry etc.



User Registration

- User can register a booking by providing information like mail, mobile number, boarding and destination stations.
- These details are converted into sting format using node red flows

A screenshot of a web application titled "User Registration" with a red header bar. The main content area has a dark gray background. At the top, it says "Smart Railways" in red. Below this, there are five input fields with red borders. The first field is labeled "Enter Passenger Name" and contains the text "asdfgijklhopo. Vafhlsh". The second field is labeled "Enter passenger email Id" and contains "xyz@abc.com". The third field is labeled "Select Boarding Station" and has a dropdown menu showing "Goa". The fourth field is labeled "Select Destination" and has a dropdown menu showing "Delhi". The fifth field is labeled "Enter Passenger Phone number" and contains "321764963674466". At the bottom right of the form, there is a red button with the text "SUBMIT" in white capital letters.

≡ User Registraion

Smart Railways

Enter Passenger Name
asdfgijklhopo. Vafhlsh

Enter passenger email Id
xyz@abc.com

Select Boarding Station Goa

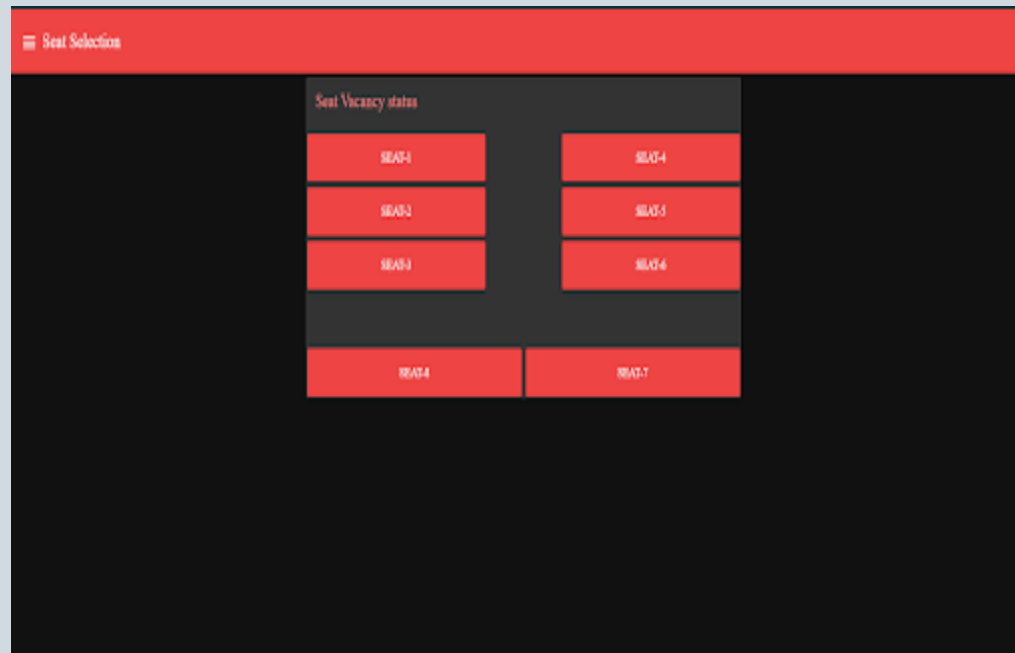
Select Destination Delhi

Enter Passenger Phone number
321764963674466

SUBMIT

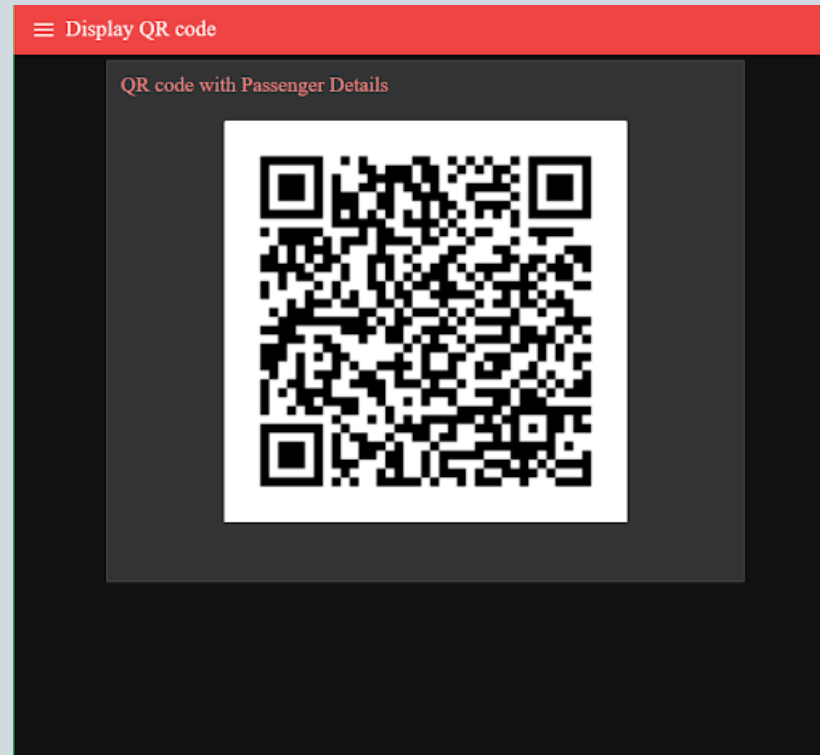
Seat Selection

- User can select any seat they want, by seeing the remaining slots.



Generating QR Code after registration

- The user details are converted into string formats and using this string a QR code is generated after every registration.
- This QR code is used to verify details of a passenger.




Verification of passenger details

- Using a node red flow a scanner is created for scanning QR code.
- Details of passenger is verified by scanning QR code.

Passenger Details Verification

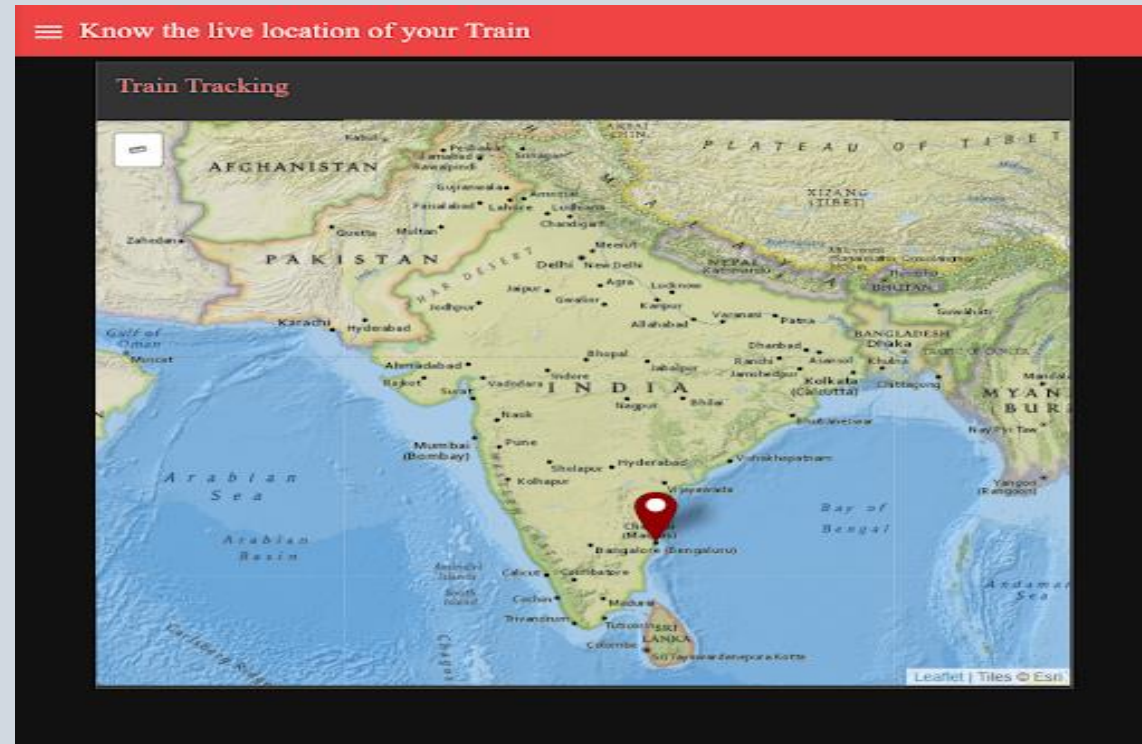
Smart Railways



Passenger Name	Sai Prathyusha.Nim
Passenger Email	fhsllhgshglh@sdlsjg.co
Boarding Station	Vijayawada
Destination station	Banglore
Phone number	45156654654747541

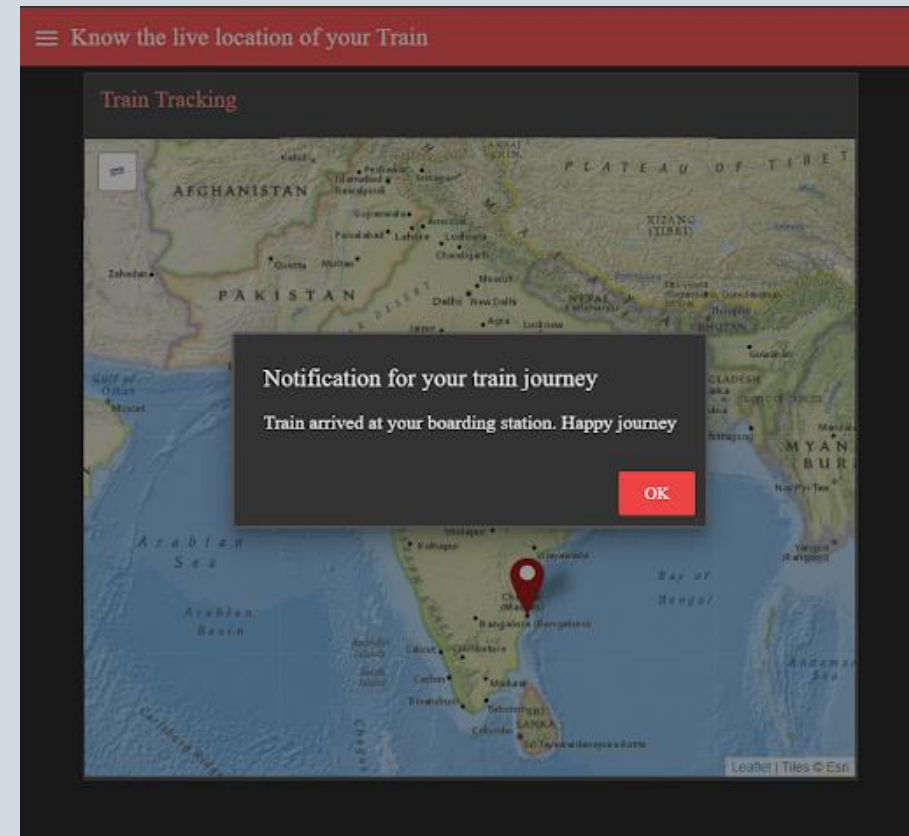
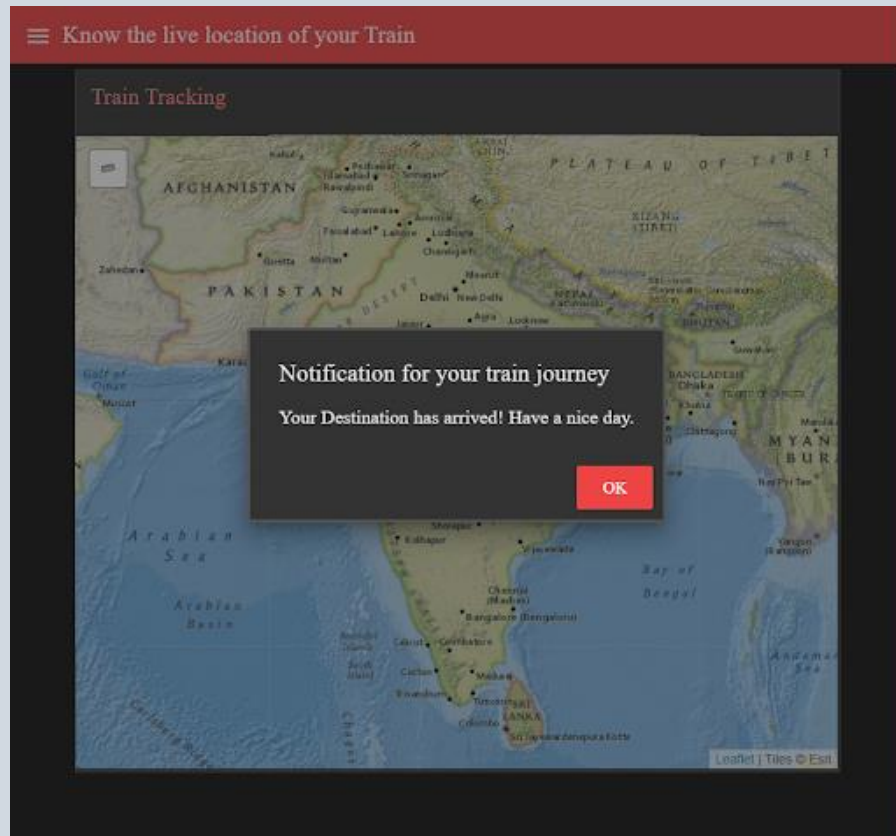
Live Location Tracking

- Live location of train is tracked using geofence node.
- Location of train is indicated by a red colour mark.



Real time notifications on train location

- Both the arrival at boarding and destination stations are notified.



Order food from pantry

- User/Passenger also can order pantry items using order from on train pantry option on the interface of node red web app.

Order from on Train Pantry

Pantry orders

Select option

Select option

Select option

Order from on Train Pantry

Pantry orders

Chips , Cakes , Popcorn

Select option

Select option

OrderRecieved

OK

Thank you!
