
System Requirements Specification

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For

**Train Information Management
System App**

Version 1.0

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FRONTEND-ANGULAR SPA

1 PROBLEM STATEMENT

Train Information Management System is SPA (Single Page Application), it allows to manage the trains with functionalities to create a new train, update an existing train, get detailed information, and search any particular train.

2. PROPOSED Train Information Management System WIREFRAME

2. 1 HOME PAGE

Train Information Management System App

Create Train

Number

Name

Departure Station

Departure Time

Arrival Station

Arrival Time

Duration

Distance (in Kms)

Fare

Seats Available

Train List

Number	Name	Departure Station	Departure Time	Arrival Station	Arrival Time	Duration	Distance	Fare	Seats Available	Actions
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Search Train

Search By Number

Search By Name

Search By SeatsAvailable

AFTER CREATING or ADDING THE TRAINS:

Train Information Management System App

Create Train

Number

Name

Departure Station

Departure Time

Arrival Station

Arrival Time

Duration

Distance (in Kms)

Fare

Seats Available

Create

Train List

Number	Name	Departure Station	Departure Time	Arrival Station	Arrival Time	Duration	Distance	Fare	Seats Available	Actions
2546	Train2	Chennai		Hyderabad		4	900	800	15	<div>EditDelete</div>
1234	Train1	Baglore		Hyderabad		5	800	750	10	<div>EditDelete</div>

Search Train

Search By Number

Search

Search By Name

Search

Search By SeatsAvailable

Search

ON CLICK UPDATE BUTTON:

Train Information Management System App

Create Train

Number

Name

Departure Station

Departure Time

Arrival Station

Arrival Time

Duration

Distance (in Kms)

Fare

Seats Available

Update

Train List

Number	Name	Departure Station	Departure Time	Arrival Station	Arrival Time	Duration	Distance	Fare	Seats Available	Actions
2546	Train2	Chennai		Hyderabad		4	900	800	15	<div>EditDelete</div>
1234	Train1	Baglore		Hyderabad		5	800	750	10	<div>EditDelete</div>

Search Train

Search By Number

Search

Search By Name

Search

Search By SeatsAvailable

Search

3. BUSINESS-REQUIREMENT:

As an application developer, develop the Train Information Management System App (Single Page App) with below guidelines:

User Story #	User Story Name	User Story
US_01	Home Page	As a user I should be able to visit the home page as default page. Where I can see a form to create or update the train, list of all trains with options to edit and delete any train and in last there should be a form to search any train on its number, name, and seat available criteria.
US_01	Home Page	<p>As a user I should be able to see the homepage and perform all operations:</p> <p>Acceptance criteria:</p> <ol style="list-style-type: none">As a user I should be able to furnish following details at the time of add or creating the train.<ol style="list-style-type: none">NumberNameDeparture StationDeparture TimeArrival StationArrival TimeDurationDistanceFareSeats AvailableCreate button should be disabled until all fields are validated.Update button should be displayed when you click on Edit button.Name field min length is 3 and max length 100.The fields, number, name, departureStation, departureTime, arrivalStation, arrivalTime, duration, distance are mandatory. If any field is missing or if any constraint is not satisfied then must show a message.Form control names should be case sensitive and they should be like as follows:

		<p>id</p> <p>number</p> <p>name</p> <p>departureStation</p> <p>departureTime</p> <p>arrivalStation</p> <p>arrivalTime</p> <p>duration</p> <p>distance</p> <p>fare</p> <p>seatsAvailable</p> <p>7. Form control names for 3 search operations should be case sensitive and they should be like as follows:</p> <p>number</p> <p>name</p> <p>seats</p> <p>8. While searching by seats available, it should return all records whose seats are greater than or equal to given number.</p>

4. EXECUTION STEPS TO FOLLOW FOR FRONTEND

1. All actions like build, compile, running application, running test cases will be through Command Terminal.
2. To open the command terminal the test takers, need to go to Application menu (Three horizontal lines at left top) -> Terminal ->New Terminal.
3. This is a web-based application, to run the application on a browser, use the internal browser in the environment.
4. You can follow series of command to setup Angular environment once you are in your project-name folder:

- a. `npm install` -> Will install all dependencies -> takes 10 to 15 min
 - b. `npm run start` -> To compile and deploy the project in browser. You can press `<Ctrl>` key while clicking on `localhost:4200` to open project in browser -> takes 2 to 3 min
 - c. `npm run test` -> to run all test cases. **It is mandatory to run this command before submission of workspace** -> takes 5 to 6 min
5. You need to use **CTRL+Shift+B** - command compulsorily on code IDE, before final submission as well. This will push or save the updated contents in the internal git/repository, and will be used to evaluate the code quality.