Metrorail Management System Document:

Project Structure:

MetroRailManagementSystem/

├── frontend/

│ ├── user/

│ │ ├── signup.html # User Signup Page

│ │ ├── login.html # User Login Page

│ │ ├── profile.html # User Profile Page

│ ├── train/

│ │ ├── trainDetails.html # Train Details Page

│ ├── ticketing/

│ │ ├── booking.html # Ticket Booking Page

│ │ ├── ticketHistory.html # Ticket History Page

│ ├── route/

│ │ ├── routeDetails.html # Route Details Page

│ ├── employee/

│ │ ├── admin.html # Administrator Page

│ ├── styles/

│ │ ├── styles.css # Shared CSS Styles

│ ├── scripts/

│ ├── user.js # User Module JS

│ ├── train.js # Train Module JS

│ ├── ticketing.js # Ticketing Module JS

│ ├── route.js # Route Module JS

│ ├── employee.js # Employee Module JS

├── backend/

│ ├── db/

│ │ ├── connection.php # Database Connection File

│ ├── user/

│ │ ├── register.php # User Registration Logic

│ │ ├── login.php # User Login Logic

│ │ ├── profile.php # Fetch and Update Profile Logic

│ ├── train/

│ │ ├── addTrain.php # Add Train Logic

│ │ ├── updateTrain.php # Update Train Logic

│ │ ├── viewTrain.php # View Train Details Logic

│ ├── ticketing/

│ │ ├── bookTicket.php # Ticket Booking Logic

│ │ ├── viewTicket.php # View Ticket History Logic

│ │ ├── cancelTicket.php # Cancel Ticket Logic

│ ├── route/

│ │ ├── addRoute.php # Add Route Logic

│ │ ├── updateRoute.php # Update Route Logic

│ │ ├── viewRoute.php # View Route Details Logic

│ ├── employee/

│ │ ├── assignEmployee.php # Assign Employee Logic

│ │ ├── viewEmployee.php # View Employee Details Logic

├── database/

│ ├── schema.sql # Database Schema

│ ├── data.sql # Sample Data

│ ├── sequences.sql # Sequences for Auto-Increment

Sign Up table:

1. From Validation with java script.

2. Username, Email, Phone number, Password.

3. Requirements of front-end:

Username: Must be unique, use number

Email: Must be use valid email like (@gmail.com, @yahoo.com etc)

Phone number: Must start with +8801 and also be 14 digits.   
 Password: Must be used strong or medium password or without can’t create account.

4. Then creating Backend with php and Database: Oracle 10g.

5. Database name: METRO Password: PROJECT

5. Table create first in Database. Then use sequence for increment primary key. Lastly use trigger for automatically increase primary key.

Employee Table Name: employees

Users Table Name: USERS

Train Table Name: trains

Admin Table: ADMIN\_LOGIN.

Tickets Table: TICKETS