RAILWAY RESERVATION SYSTEM DOCUMENTATION

MODELS:

1. USER – [UserID], UserName, Email, PhoneNumer ,Address, Gender, Age and disability status
2. ADMIN – [AdminID], Name, Email, PhoneNumber,Gender, disability status, Address
3. TRAIN – [TrainID], TrainName, TrainNumber, StartingPoint, EndingPoint, TrainDate, ArrivalDate, DepartureTime, TotalSeats, PricePerKm
4. TRAINROUTES – [RouteID], RouteDate, ArrivalTime, DepartureTime, StopNumber, KilometerDistance, TrainID, StationID
5. STATION – [StationID], StationName
6. TRAINCLASS – [ClassID], ClassName, ClassPrice, SeatforClass, TrainID
7. RESERVATION – [ReservationID], ReservationDate, StartingPoint, EndingPoint, TrainDate,

SeatNumbers, Amount, Status, UserID, TrainID

1. RESERVATIONCANCEL – [ReservationCancelID], ReservationCancelReason, SeatNumbers, RefundAmount, UserID, ReservationID
2. PAYMENT – [PaymentID], PaymentDate, Amount, PaymentMethod, Status, ReservationID
3. REFUND – [RefundID], RefundAmount, ReservationCancelID, UserID
4. REWARDS – [RewardID], RewardPoints, UserId.
5. SEAT – [SeatID] ,SeatNumber ,ReservationID

REPOSITORIES:

1. UserRepository to Add User Details(Create, Update, Read(Fetch), Delete)
2. AdminRepository to Add Admin Details(Create, Update, Read(Fetch), Delete)
3. TrainRepository to Add Repository Details(Create, Update, Read(Fetch), Delete)
4. TrainRouteRepository to Add Train Routes for a Particular Train by Admin(Create, Update, Read(Fetch), Delete)
5. TrainClassRepository to Add Train Classes for a Particular Train by Admin(Create, Update, Read(Fetch), Delete)
6. StationRepository to Add Station Details by Admin(Create, Update, Read(Fetch), Delete)
7. ReservationRepository to Add Reservation Details once Reservation is Done by any User(Create, Update, Read(Fetch), Delete)
8. ReservationCancelRepository to Add Reservation Cancel Details if user cancels the Reservation(Create, Update, Read(Fetch), Delete)
9. PaymentRepository to Add Payments once payment is done by user for a particular Reservation(Create, Update, Read(Fetch), Delete)
10. RefundRepository to Add Refund Details once Reservation is cancelled and Refund is Processed(Create, Update, Read(Fetch), Delete)
11. RewardRepository to Add Rewards for a User once a Reservation is Done
12. SeatRepository to Add Seats once Reservation is Done

ADMIN ENDPOINTS:

1. To Add Trains with particular Date and Time with starting point and ending point
2. To Add Train Classes with Price
3. To Add Train Routes with stations
4. To Add new Stations in the Railway System
5. To Refund Amount once a Reservation is Cancelled
6. Can see total train details in the control
7. Cancel a Train in case of some sudden failures
8. Edit Train Routes, Train classes and particular Train Details
9. Admin can Register, Login and Logout

USER ENDPOINTS:

1. User can Register and Login
2. User can Reserve a Train
3. User can search for a train using Date, Starting point and Ending Point
4. User can make a Payment for particular Reservation
5. User can Cancel a Reservation
6. User can select the needful seats during Reservation
7. User can Logout