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The background image shows the interior of a modern metro train. It features rows of blue upholstered seats, overhead handrails with black loops, and large windows. The train is moving, as evidenced by the blurred view outside the windows. A blue geometric shape is overlaid on the top left corner of the image.

THE METRO MANAGEMENT SYSTEM

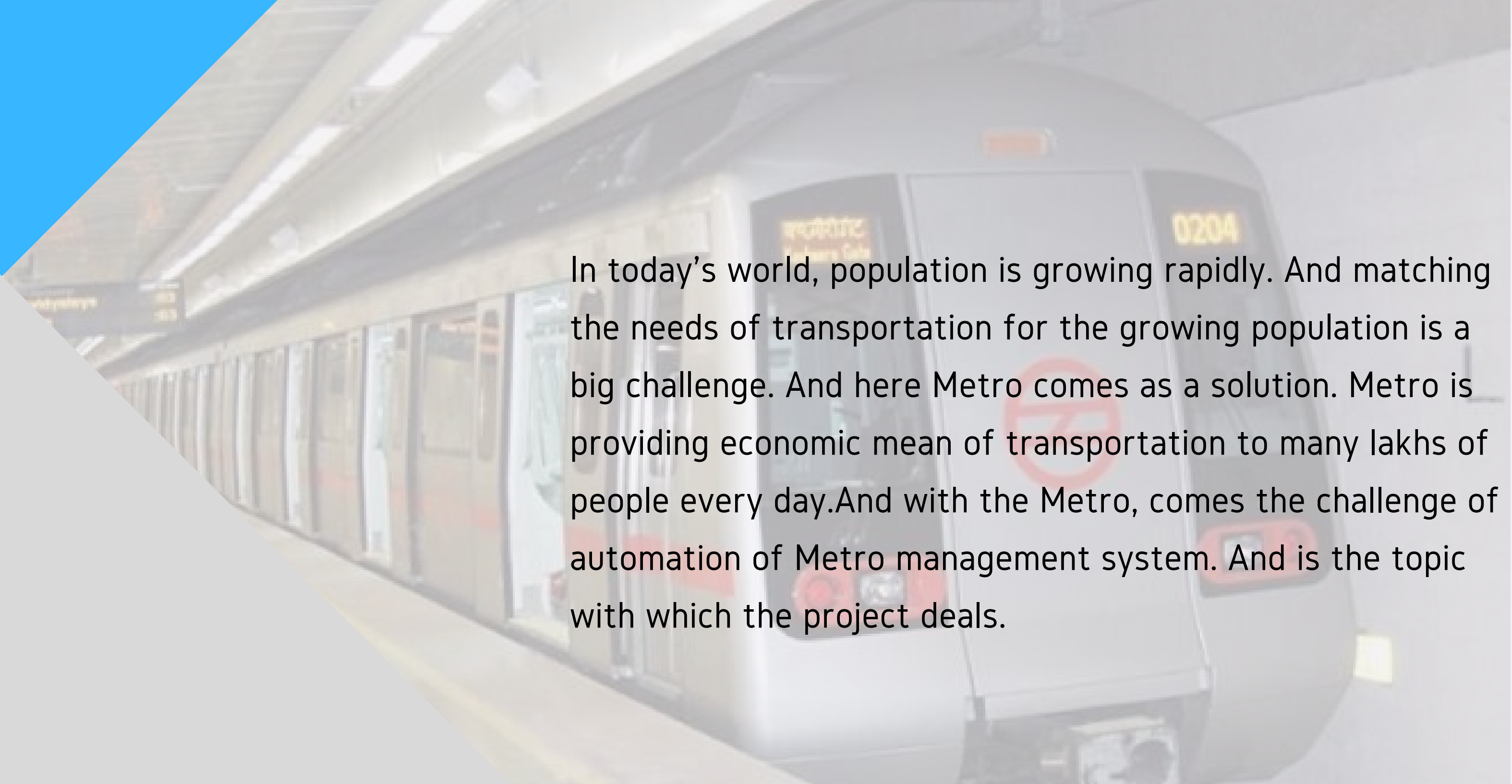
MANAGEMENT MODES

ADMINISTRATOR MODE

USER MODE

PASSENGER MODE

INTRODUCTION



In today's world, population is growing rapidly. And matching the needs of transportation for the growing population is a big challenge. And here Metro comes as a solution. Metro is providing economic mean of transportation to many lakhs of people every day. And with the Metro, comes the challenge of automation of Metro management system. And is the topic with which the project deals.

THE ADMINISTRATOR MODE

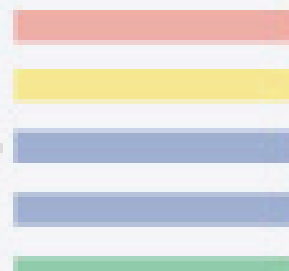
TASKS

- Add new metro train and routes.
- Manage employees.
- Display list of Metro train and their routes.

LEGEND

Line-1 (Dilshad Garden to Rithala)
Line-2 (Huda City Centre to Jahangirpuri)
Line-3 (Noida City Centre to Dwarka Sector 21)
Line-4 (Yamuna Bank to Anand Vihar ISBT)
Line-5 (Inder Lok to Mundka)

Operational Network



Interchange
Stations



EMPLOYEE MODE

TASKS

- Book tickets.
- Manage passenger database.
- Display list of Metro train and their routes.
- Manage passenger Metro cards.



THE PASSENGER MODE

TASKS

- Use Metro service using their Metro card.
- Check balance in their Metro card.
- Display list of Metro train and their routes.

FUNCTIONING

THE PROJECT WORKS AROUND

- Class
- Functions
- Menu (switch cases)



CLASS

THERE ARE 4 CLASSES

- Employee
- MetroRoute (Friend class of MetroCard)
- MetroTrain (Child class of MetroRoute)
- MetroCard

EMPLOYEE

The employee class keeps the data of employees

The Functions used by class Employee are:

- CreateEmployee(): Get the details of employee
- DisplayEmployee(): Display the details of Employee
- AlterEmployee(): Update the details of Employee
- Employee_Num: Returns the employee number
- Employee_Pwd: Returns the employee password

METROROUTE

The MetroRoute class keeps the data of Train's route

The Functions used by class MetroRoute are:

- GetRoute(): Get the details of Routes
- DisplayRoute(): Display the details of Route
- AlterRoute(): Update the details of Route
- Fare(): Returns the Route's fare



METROTRAIN

The MetroTrain class keeps the data of Trains

The Functions used by class MetroRoute are:

- GetTrain(): Get the details of Metro Train
- DisplayTrain(): Display the details of Metro Train
- AlterTrain(): Update the details of Metro Train
- Train_Num(): Returns the Train number

METROCARD

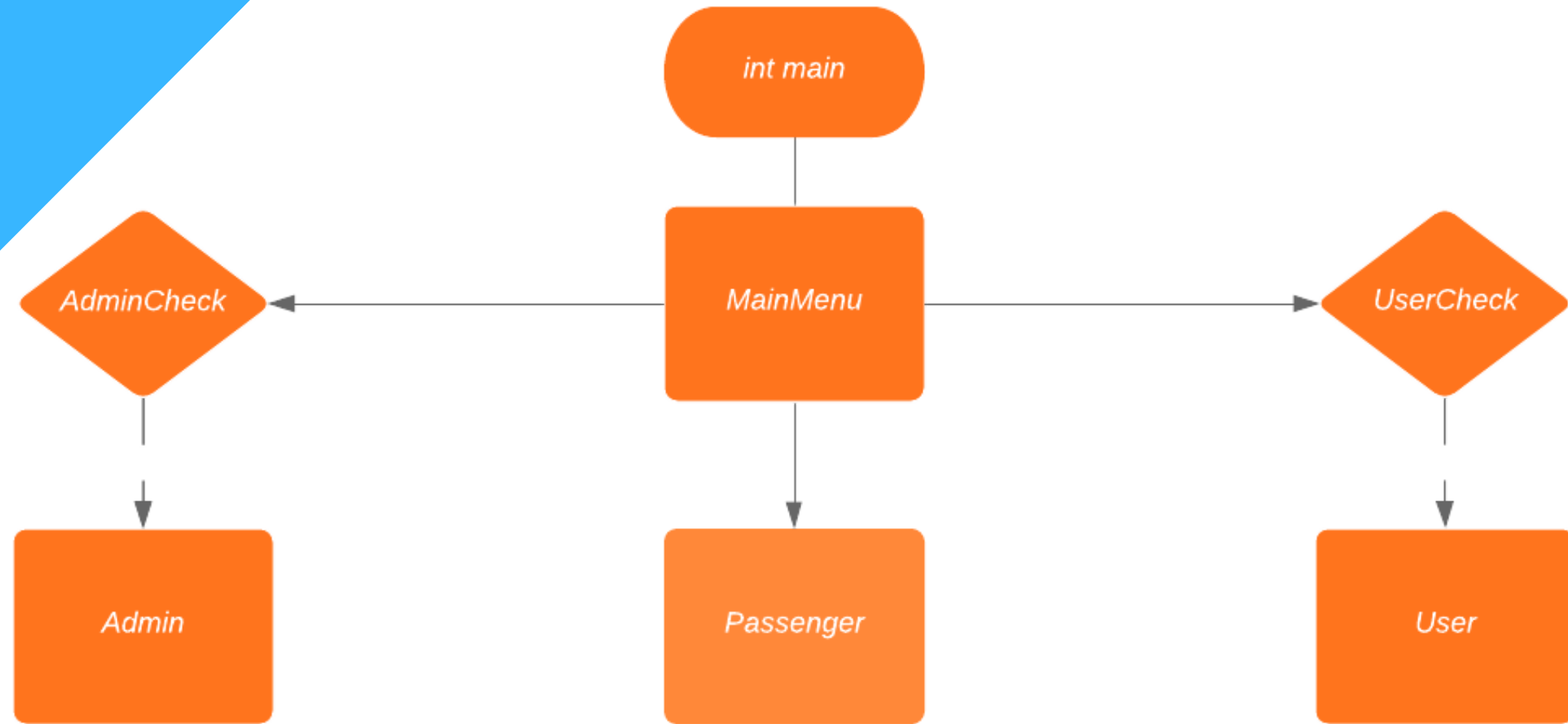
The MetroCard class keeps the data of Passenger's Card

The Functions used by class MetroRoute are:

- CreateCard(): Get the details of Metro Card
- DisplayCard(): Display the details of Metro Card
- Balance(): Returns the balance in Metro Card
- Card_No.(): Returns the Card number
- -= and += operators: Helps in updating the balance

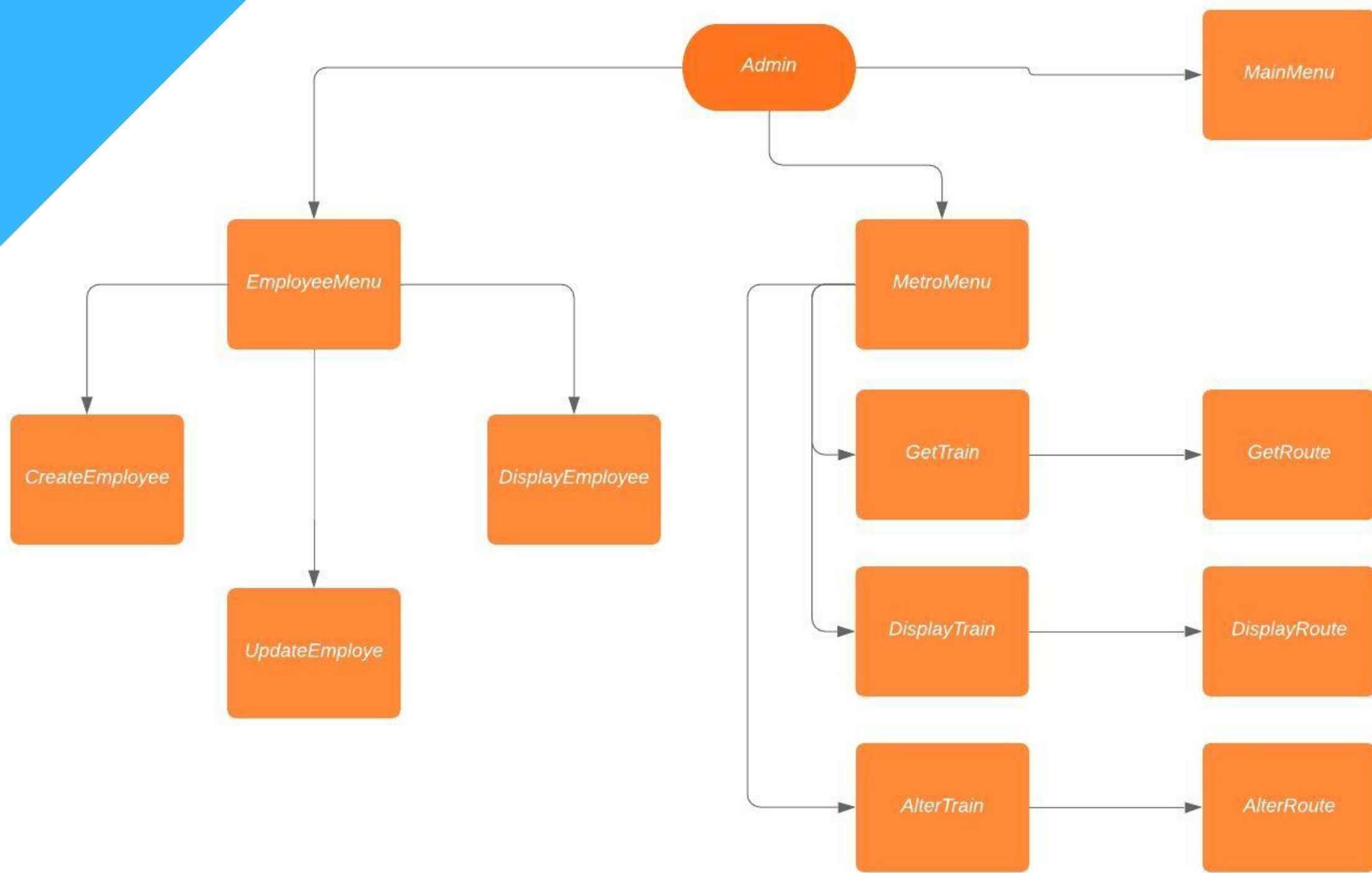
Delhi Metro

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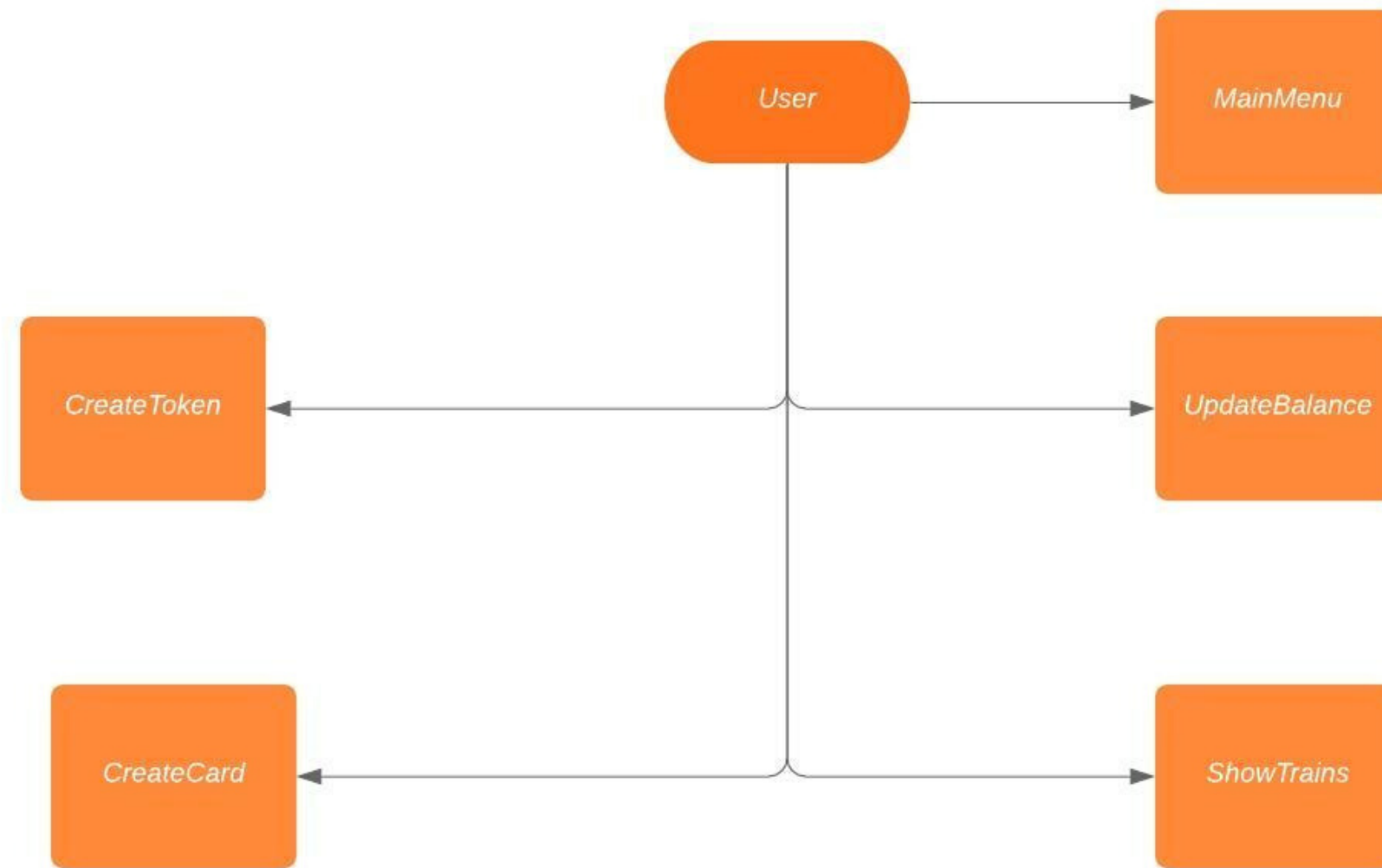
Admin Menu

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User Menu

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Passenger Menu

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