Parvesh Tyagi
Roll No. 197933

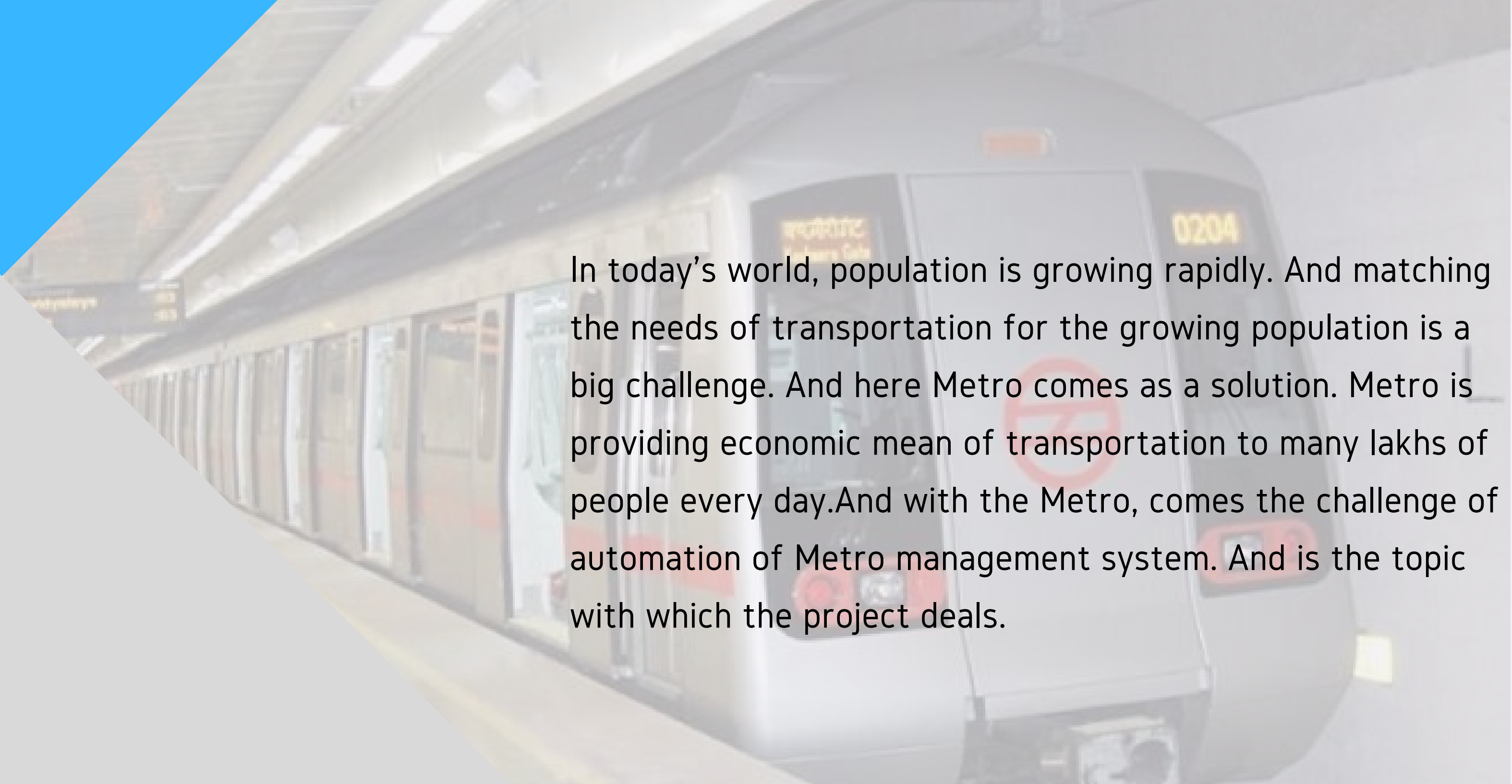THE METRO MANAGEMENT SYSTEM

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.
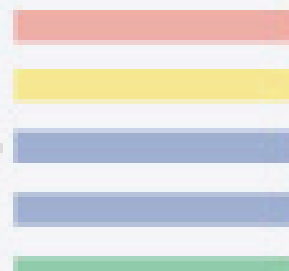
THE ADMINISTRATOR MODE

TASKS

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

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 Emplyee
- 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
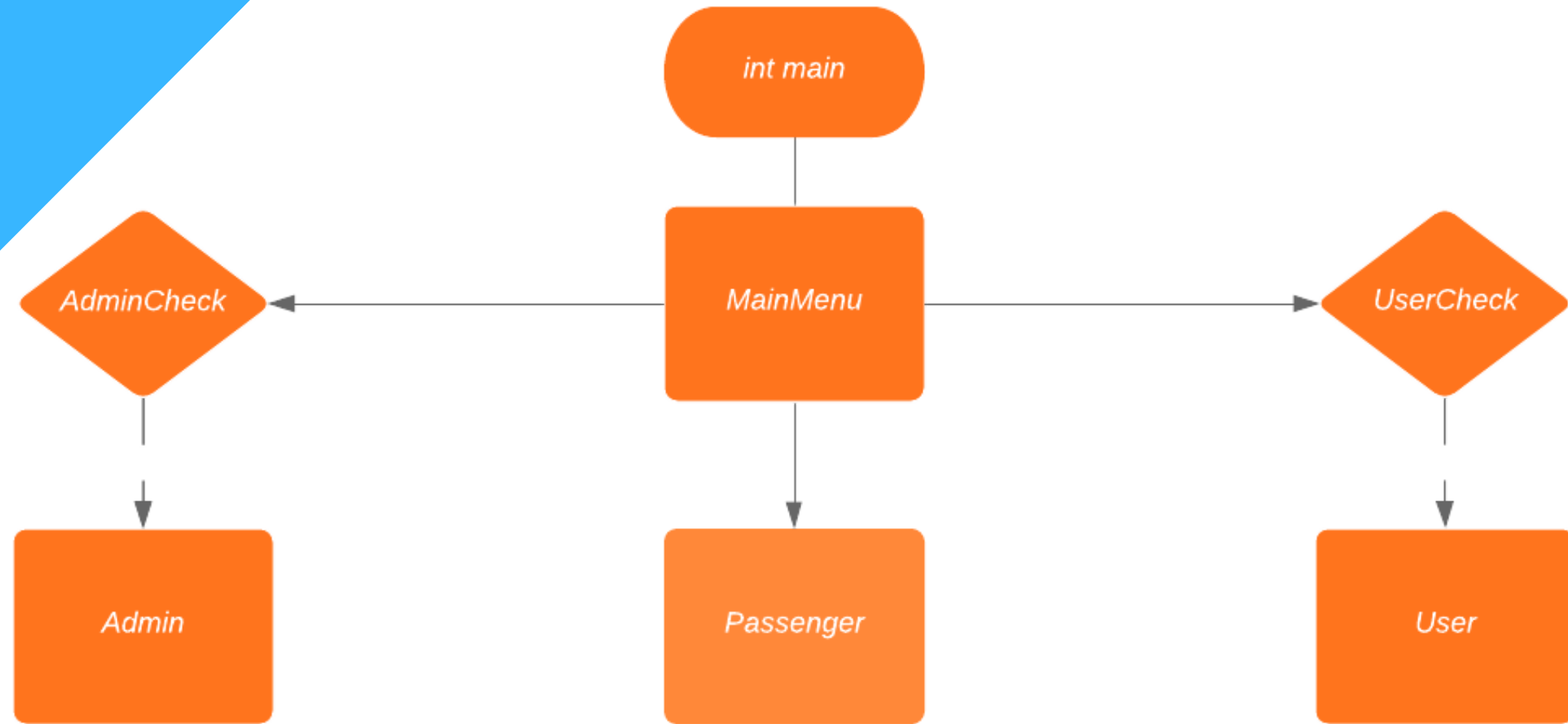- Train_Num(): Returns the Train number

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
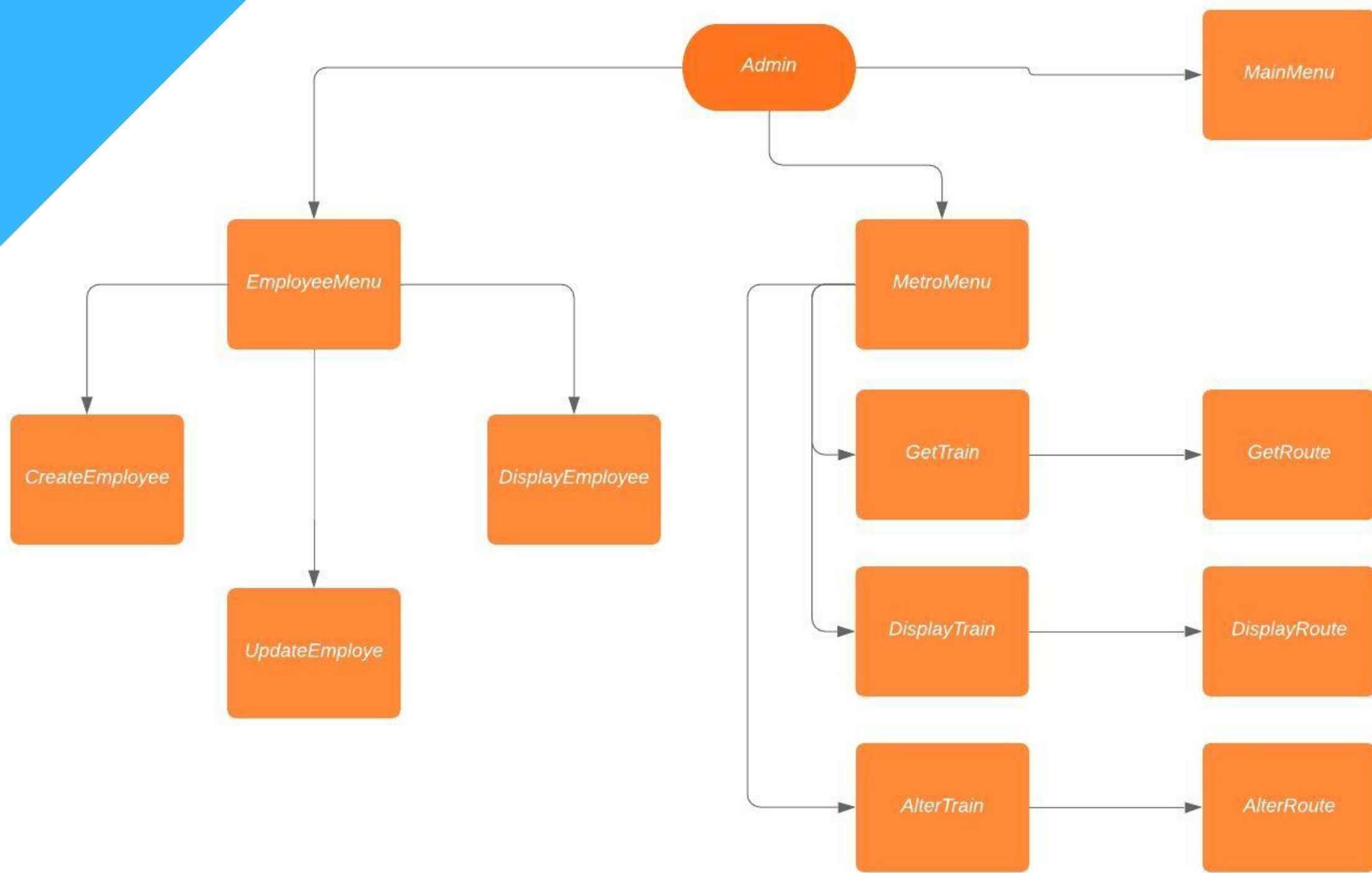- -= and += operators: Helps in updating the balance
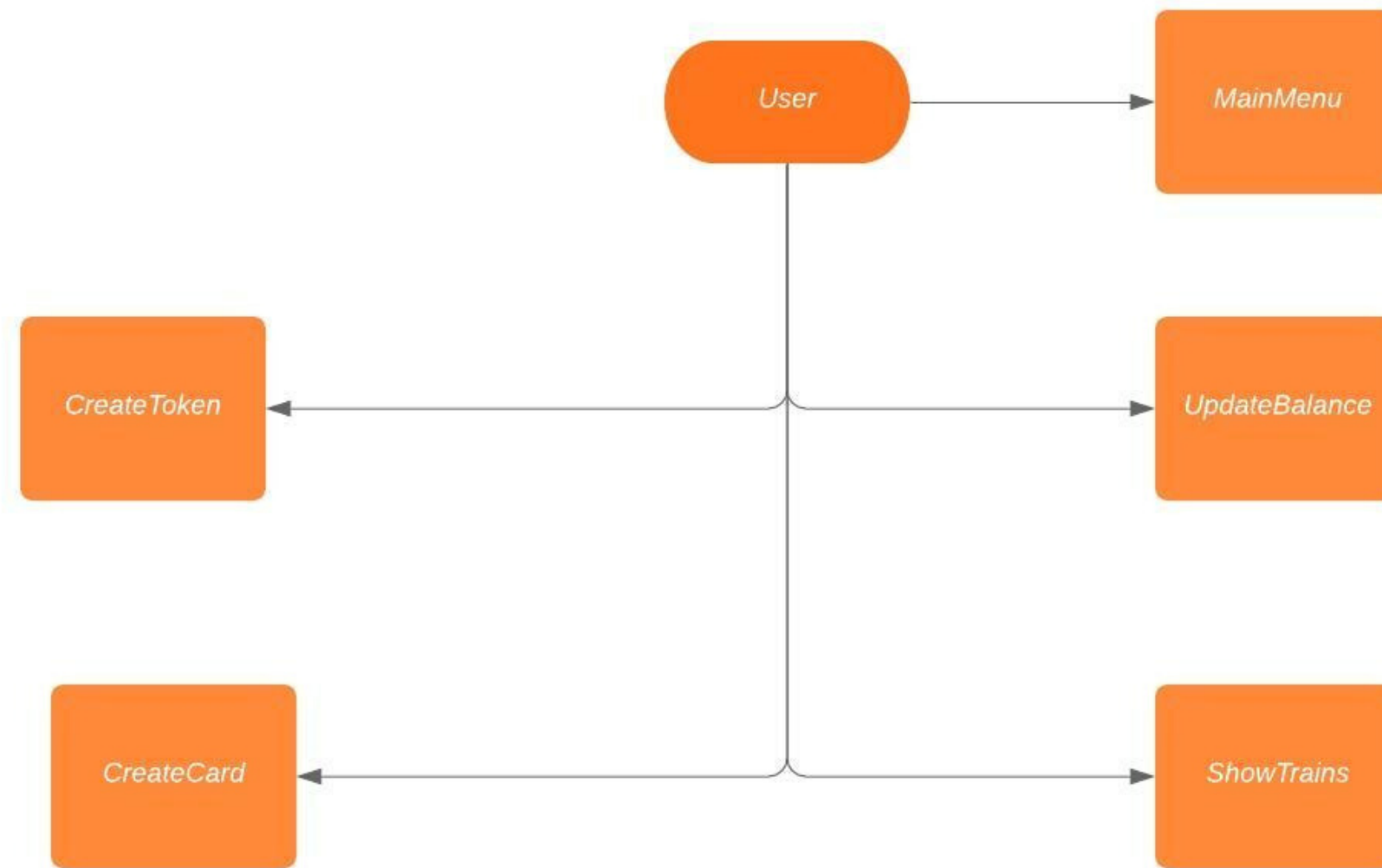
Delhi Metro

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Admin Menu

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User Menu

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Passenger Menu

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