Class description

Package com.CabBooking.Controller

Launcher
1. Main method to create main frame for application

SignInPanel
1. Allow user to login

SignUpPanel
1. Allow user to create a new account

UserPanel
1. Make Coordination between MenuPanel and ControlPanel

MenuPanel
1. Provides different operations to user

ProfilePanel
1. Shows user Info

EditProfilePanel
1. Allow user to change their details

CabBookingPanel
1. Allow user to book cab
2. Check if source and destination are valid
3. Find nearest driver for valid locations
4. Show driver and trip details – fare, time etc.
5. Update user and driver status on trip start

CabBookedPanel
1. Provide animation until trip ends
2. Allow user to give rating to driver
3. Asking user to make payment

WalletPanel
1. Shows current balance
2. Allow user to add amount

Package com.CabBooking.View

BackgroundPanel
1. Provides custom background design to all panels

MainFrame
1. creates main JFrame of the application

Button, TextField, TextLabel, PasswordField
1. Provides custom design to respective views

Package com.CabBooking.Model

CommonConstants
1. Contains constants frequently used in code

Customer
1. Contains all info of the user
   eg - name, mobile, wallet balance, trip status etc.

DriverReshuffler
1. Find location with highest number of drivers and move half of them to current empty location

IntermediatePoint
1. Show intermediate locations during trip animation (CabBooked UI)

Package com.CabBooking.Model.mapgraphutilities

Driver
1. Contains all info of the driver
   eg – name, mobile, vehicle ID, rating.

MapBuilder
1. Build and store graph in database
2. Sending drivers to random locations
3. Store drivers in database

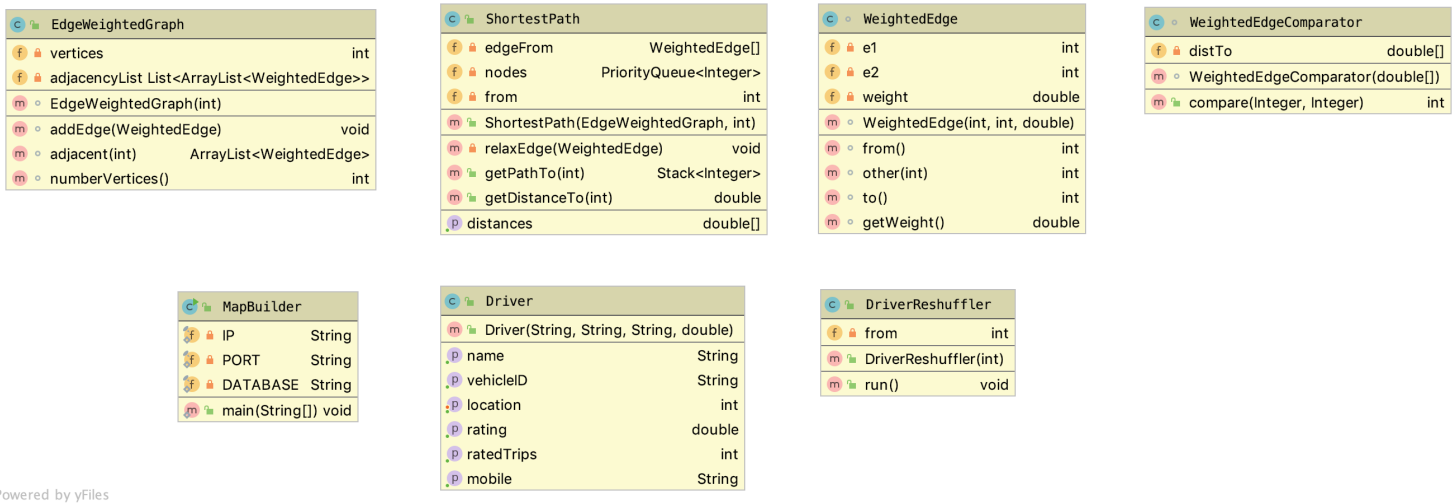
EdgeWeightedGraph
1. Provides an edge weighted graph

WeightedEdge
1. Represent a weighted edge between 2 locations

ShortestPath
1. Find shortest path between 2 locations using Dijkstra's Algorithm

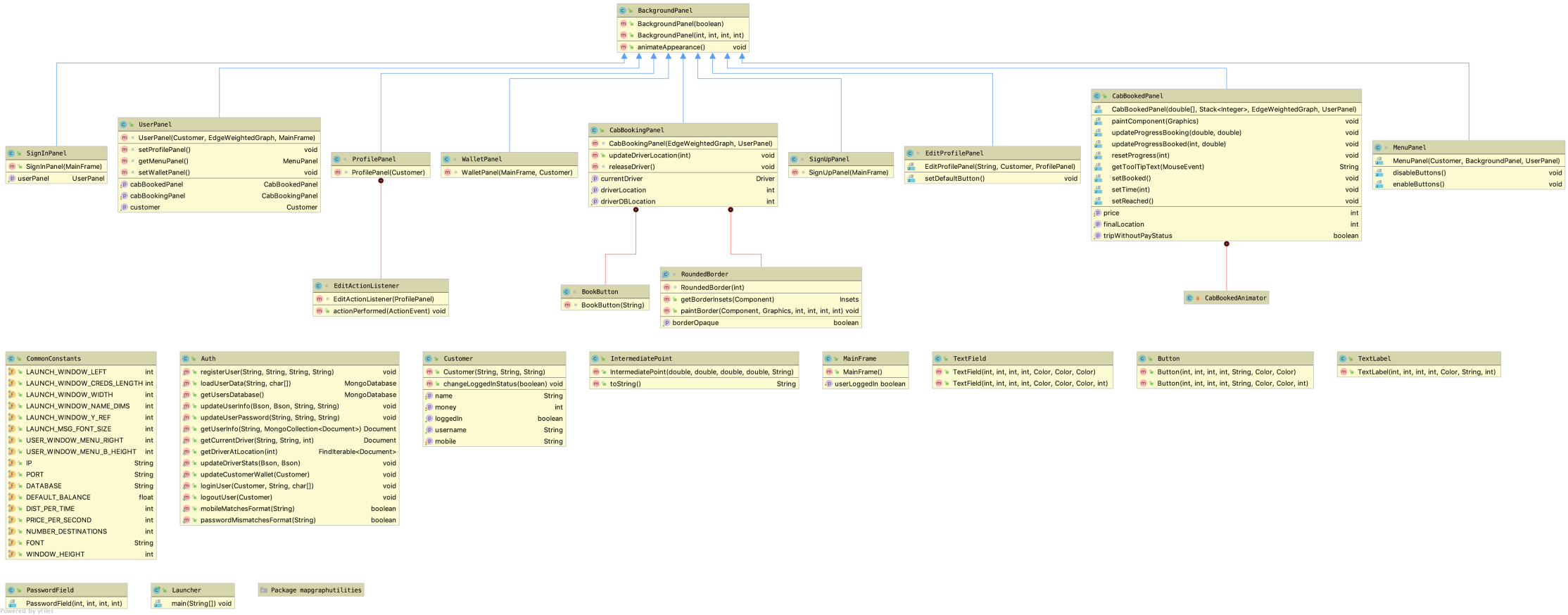
Package com.CabBooking.Utils

Auth
1. Class to manage all authentication activities and CRUD operations from database.

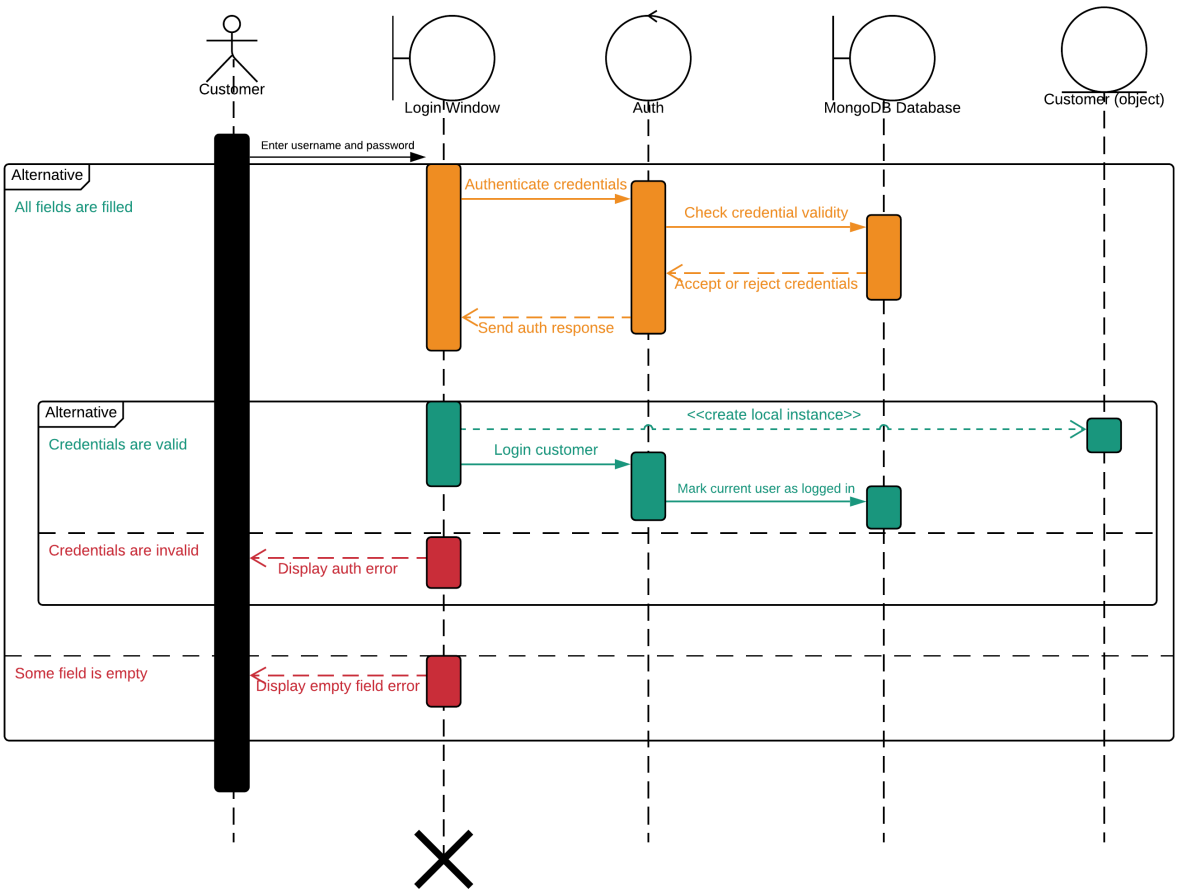


MapGraphUtilities class diagram

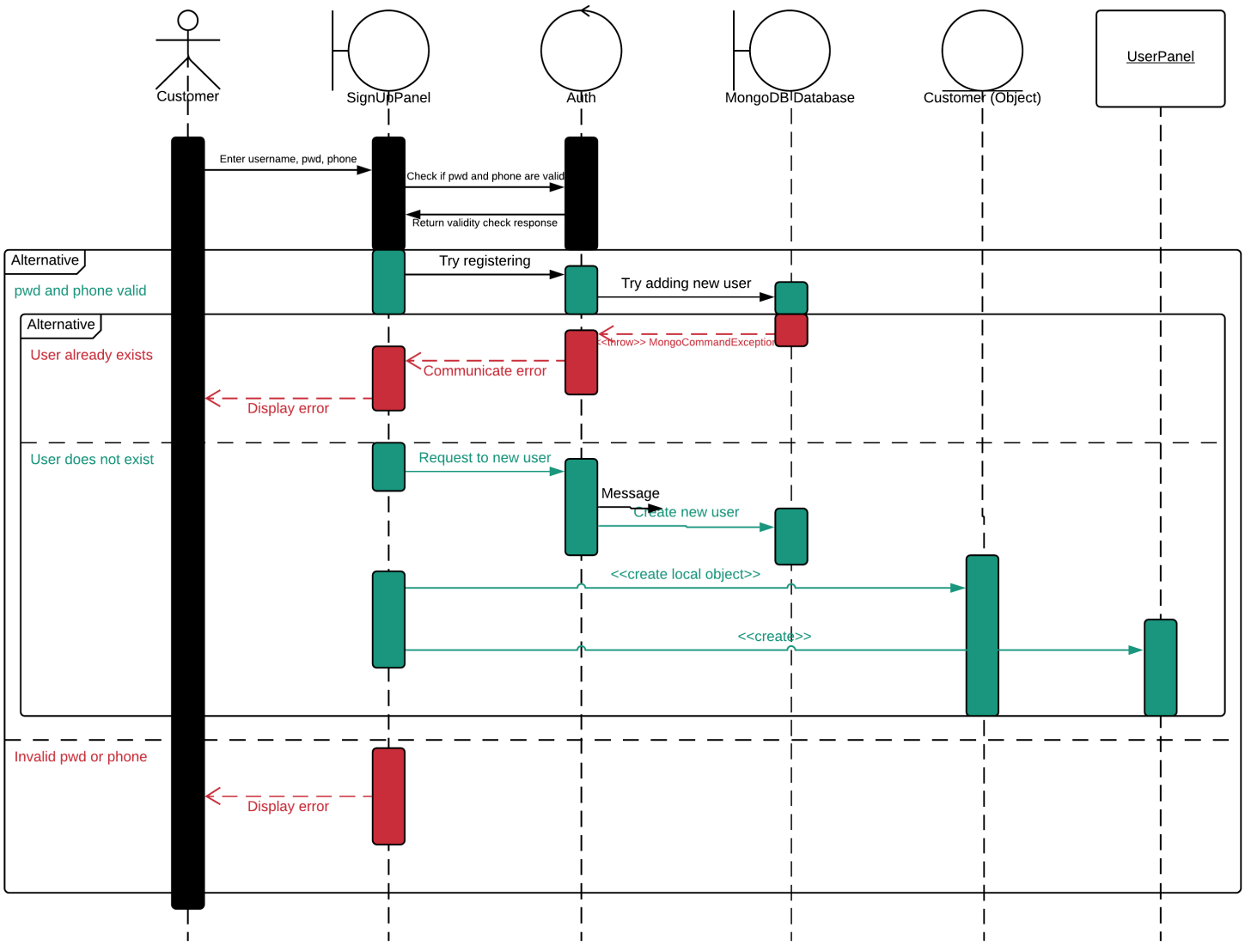
Class Diagram



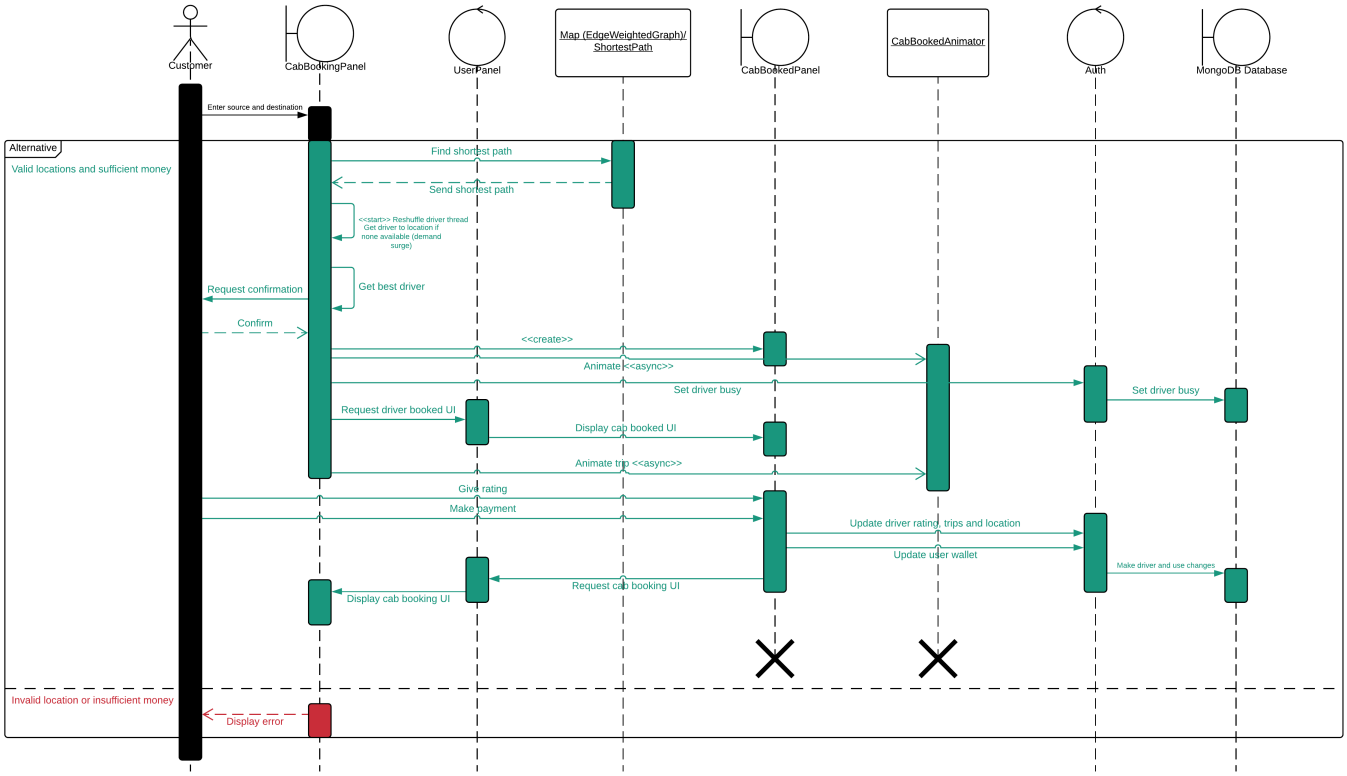
Login Sequence Diagram



Registration Sequence Diagram



Booking Sequence Diagram



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