**Transportation Rental Services**

Functional Requirements

Supervised by **Dr Abeer El-Korany**

**System functions**

* Calculate Minimum Distance
* Bike: Select nearest store and view estimated time to reach it.
* Heavy Car: Calculate minimum distance to destination.
* Winch: Calculate minimum distance to destination.
* Private Car: Calculate minimum distance to destination or nearest store.
* Calculate estimated amount (Cash, Trip time, quota):
* Bike: Fixed amount of money per hour.
* Heavy car: Fixed amount of money per kilometer.
* Private car: Fixed amount of money per hour (minimum 12).
* Winch: amount of Furniture moved
* Payment

Allow user to choose the method he wants to pay.

* Cash.
* Credit card.
* Quota (Bike)

* Show Categories

 Show categories in our system for user to choose from them which type of Rental services he want (Bike, Heavy car, Private car, and winch).

* Show Map with Information of selected category.

Show map containing stores and vehicle near from him.

* Show Notifications.

Show notification of new incoming (promo code, requested canceled).

* Updating Locations

In Case of owner change his location, system must update his location on the map that shown to user.

**General Function**

* CreateAccount
* Allows to make an account on the Application to be able to use its features by entering your Information and it must Sending you a confirmation mail to admit that you make an account successively.
* Login option
* Access your data and entering in your App.
* Forget Password
* Sending new password to his e-mail.
* Email Verification
* Confirming the information account.
* Hamburger Menu
* Profile
* Show user information, picture.
* Balance (Wallet)
* Which Show the user balance?
* Setting
  + Edit profile information.
* History
  + Contain all trips for user.
* Payment method
  + Credit Card
  + Cash
* Review, Rate (User to owner)
  + Allows you to Rate the trip and the Owner
* Logout
  + End user session.
* Search box
  + Shows the searching bar in the App which allow you to drop off  includes the history of recent locations

**Service Owner**

Store page

* Types of vehicles
  + - Car, bike ,Winch and el lorry information
* Add new car
  + - Allows owner to add new car in his store and update information
* Status ( active or not )
  + - If status is online, place will appear on map and if he close or has no vehicle he will be offline and not display on map
* Requests ( accepted , rejected )
  + - Accepted request will send notification to user and display information about the driver , reject request will return the user to select another one
* Notifications ( if user cancel request )
  + - Notification will send to driver and if the car are already moved the –ve value will added to user balance
* Upcoming trips
  + - show to owner our upcoming trips to avoid the conflict
* Terminate rental ( end trip ) (review owner to user )
  + - owner can terminate the trip in case something happened in vehicle

**Service User**

●    Choose category

* Allow user to select one category out of four

●     Choose store

* After show map to user he will select store or vehicle and display this activity to him

●     Request (2 steps) (choose, confirm)

* Private car
* Type of car
* Driver or not
* Delivery (location user)
* Duration

●     Bike

* Once
* Month

Calculate quote with time of trip

●     Heavy or winch

* Type
* Trip road

●     Drop estimation cost

* Estimate the trip fare before booking it.

●     Hold for specific duration

* After specific duration if user didn't come request will be denied

●     Cancel request

* Allow you to cancel request after booking it

●     End trip

* Ending trip after reached the destination and calculates the cost.

●     Feedback, rate

* Rating trip and vehicle after ending trip or before start another one.

●     Notifications (car arrive, owner cancel, cost)

* Notified that is the driver reached to location, In case of owner cancel the trip the driver notified that user cancel the ride and notification for costing after ending trip

●     Mothy user (quota)

* Add free hours to user balance

**Service Admin (CRUD)**

* Create account
  + Admin is allowed to add new users to system and other admins)
    - User
    - Owners
    - Admins
* Soft delete users
  + Admins are able to soft delete owners and users
* Retrieve all users and filter them
  + Filter users by (latest, soft deleted, oldest)
* Activate users after soft delete
  + Admins are able to activate user again after deleting