# **Taxi Booking Framework**

A taxi dispatching station having a pool of taxis serving customers.

The server provide RESTful web services for the pull-based interaction between the client and server for the stateless components .

Course: Object Oriented Design

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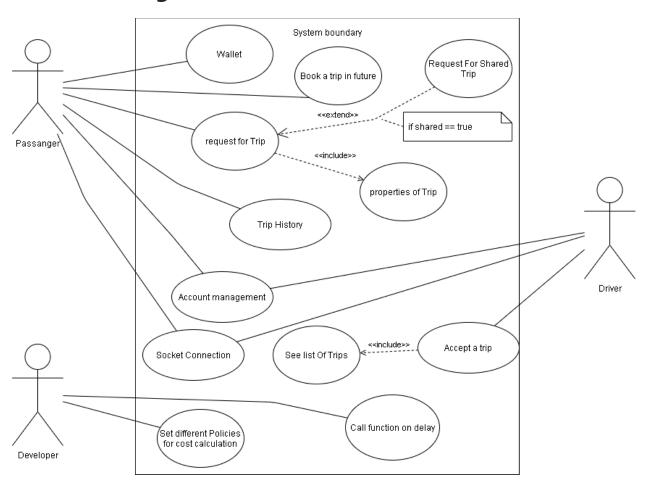
#### **Features**

- Framework supports Trip Reservation.
- Framework supports Passengers and Drivers Management Panel.
  (Includes account creation and other related APIs.)
- Framework supports Scheduled Reservation.
  (book a trip in some date in future)
- Framework supports Different Function Call On Arriving Delaying By Passengers Or Drivers.

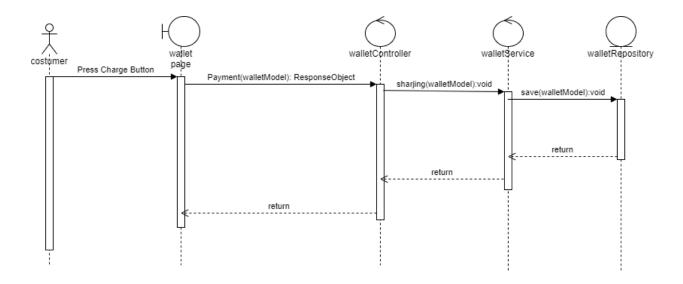
(can call functions on specified event)

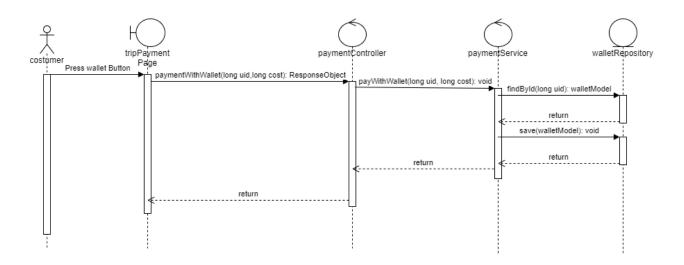
- Framework supports Different Conditions for the Trip.
  (a map structure representing Conditions is added to reserve API so that it would check for Conditions satisfactions before reserving)
- Framework supports Trip History.
- Framework supports Wallet for passengers and different payment methods.
- Framework can use different policies (specified by framework user) to calculate cost
   of trip.

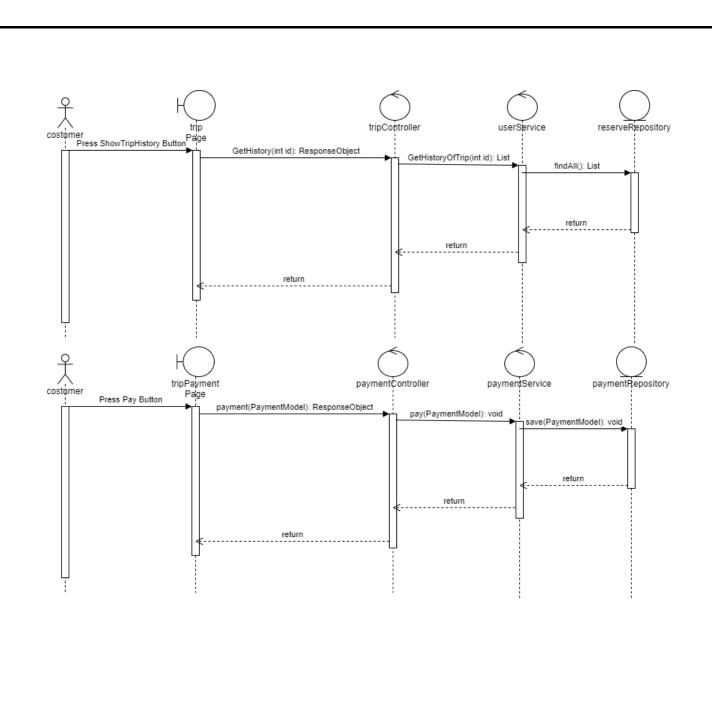
## **Use Case Diagram**

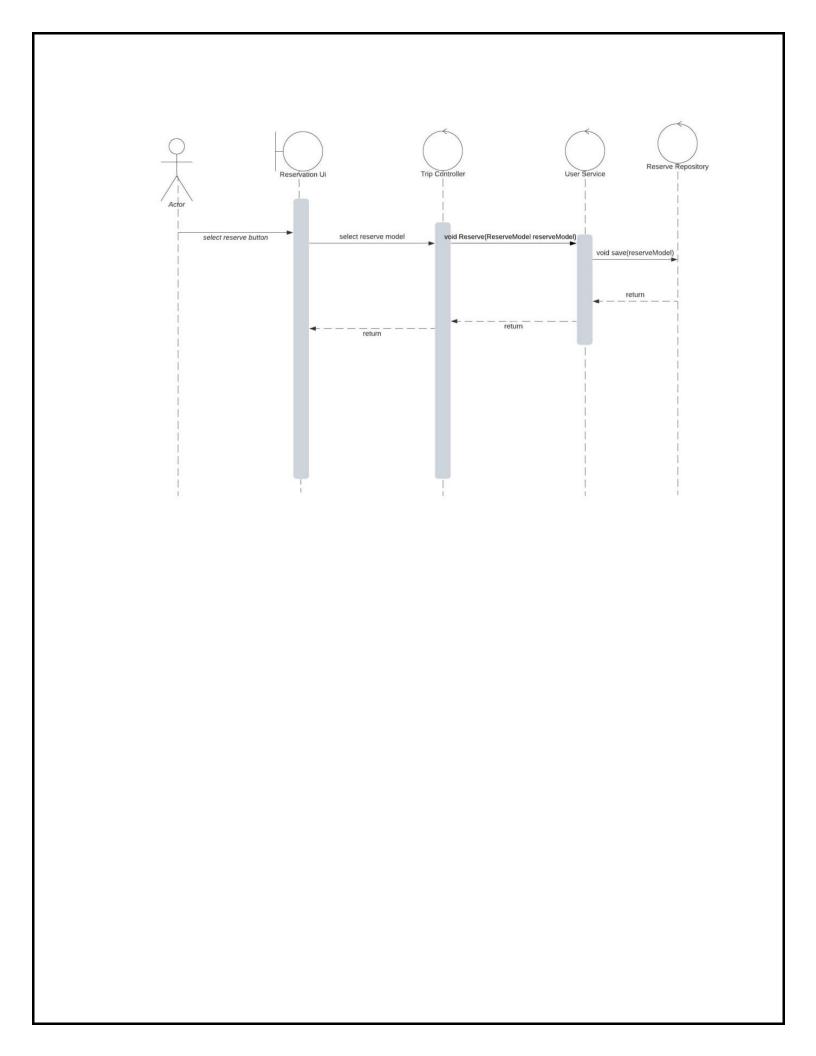


## **Sequence Diagram**









### Implementation:

we used java spring boot restful service to implement these features.

**Controller**: which handles request from client.

**Service**: implements functionality.

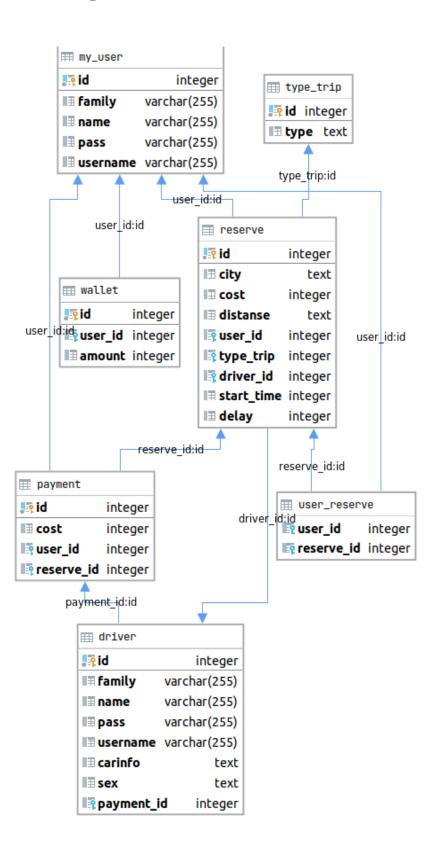
**Repository**: data access object between database and other components.

**Model**: Implements Entity.

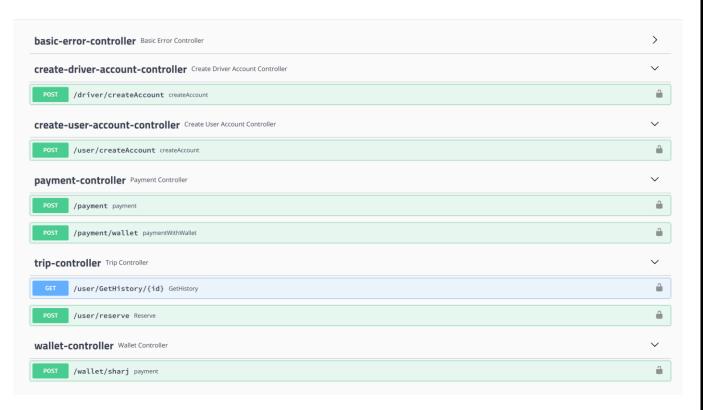
**DTO**: fields of client endpoint request.

**Config**: configs that used in project like swagger.

### 1. Class Diagram



#### 1. API



### 2. Assumptions

- For now it's not possible for Driver to see trip list and choose a trip as desired, (trip is automatically assign )
- We assumed that when a user use the wallet for payment, wallet 'money is bigger than trip cost.