Technical Design Document

Project name: **Flight Reservation System**

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**Introduction:**

Flight Reservation System is created to meet the needs of online flight reservation system, with 1 actors: Customer. The architecture implemented is Spring Boot REST.

**Functional Requirements:**

The functional requirements of the project are:

**For the Customer:**

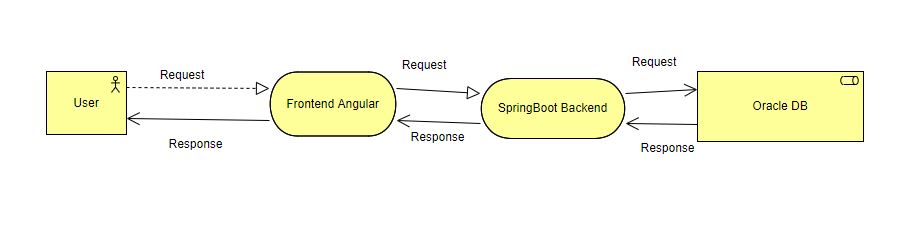
* Login
* Register
* Search Flights
* Book Flight Ticket
* View Tickets
* Cancel Booking

**Services:**

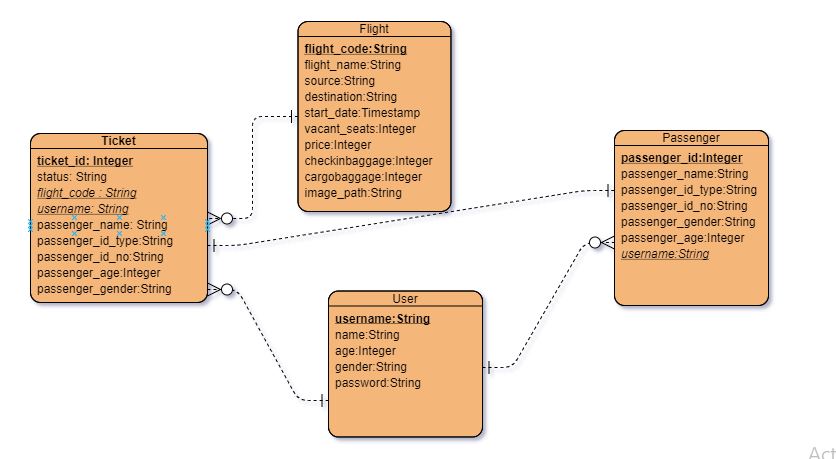
The different services in which this project is divided into are:

* **User Service:** Register a new account and login (as a customer).
* **Flight Service:** Search for Flights and Book flight Ticket
* **Ticket Service:** View booked tickets and Cancel Tickets.
* **Passenger Service:** Add, remove, edit and get all passenger details.

**Overall Architecture Diagram:**



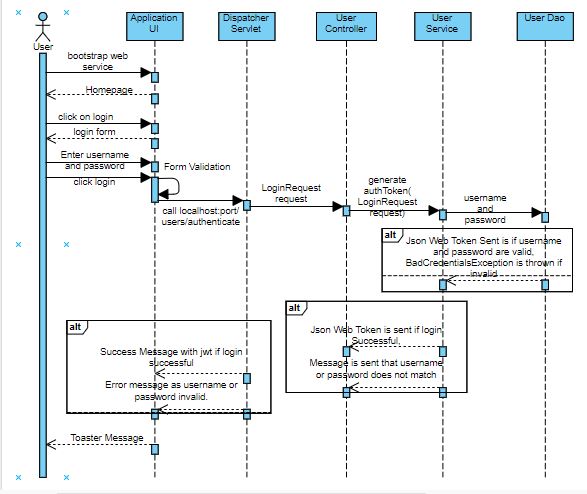
**Overall Entity Relationship Diagram:**



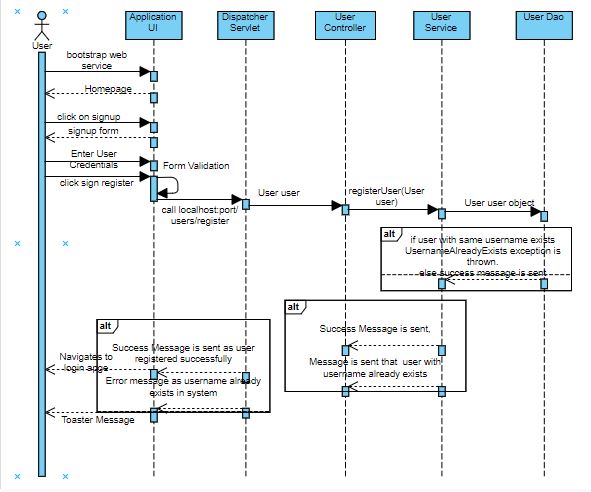
**Sequence Diagrams**

**User Service:**

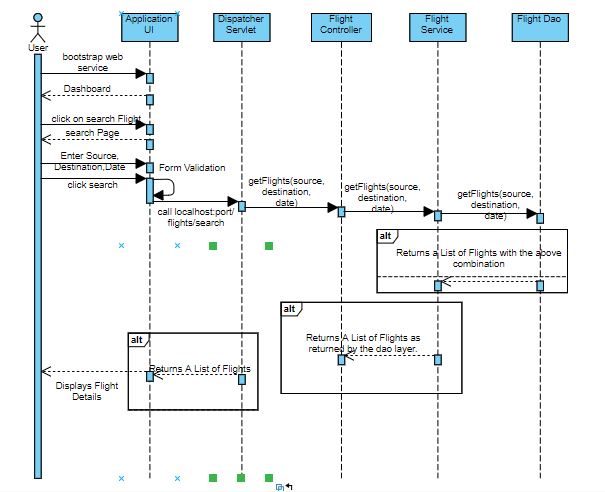
**Login –**



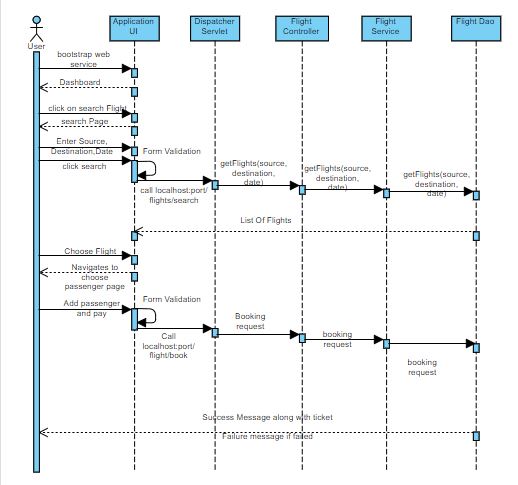
**Registration of new User -**



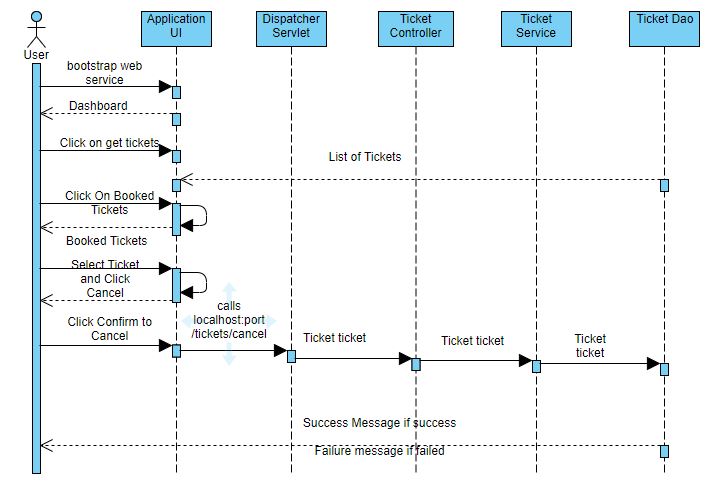
**Search Flights:**



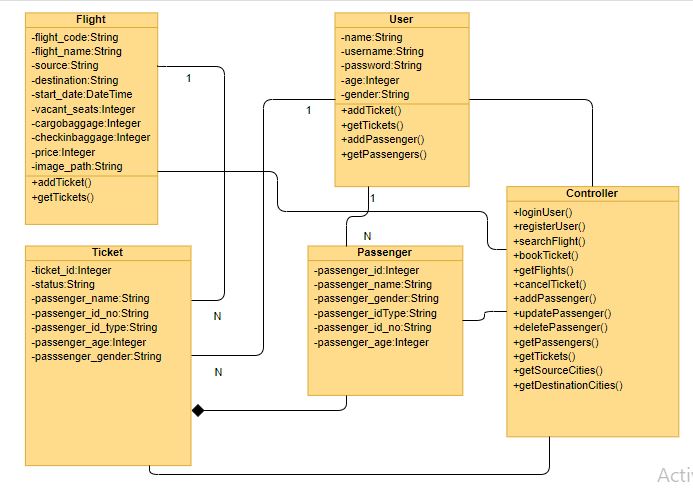
**Book Flight Ticket**



**Cancel Ticket:**



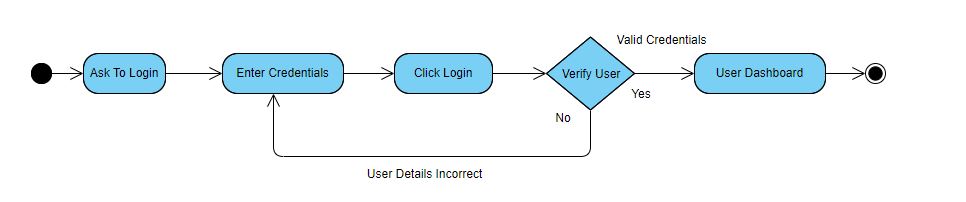
**Class Diagram**



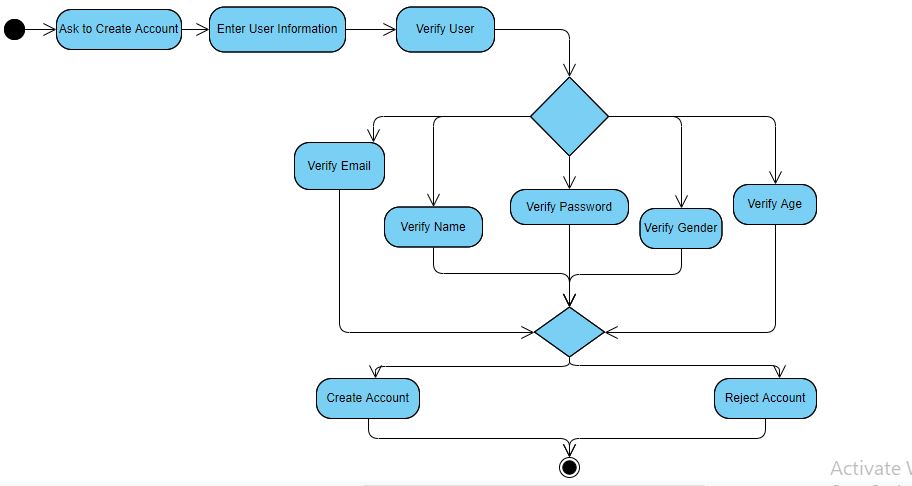
**Activity Diagrams**

User Service:

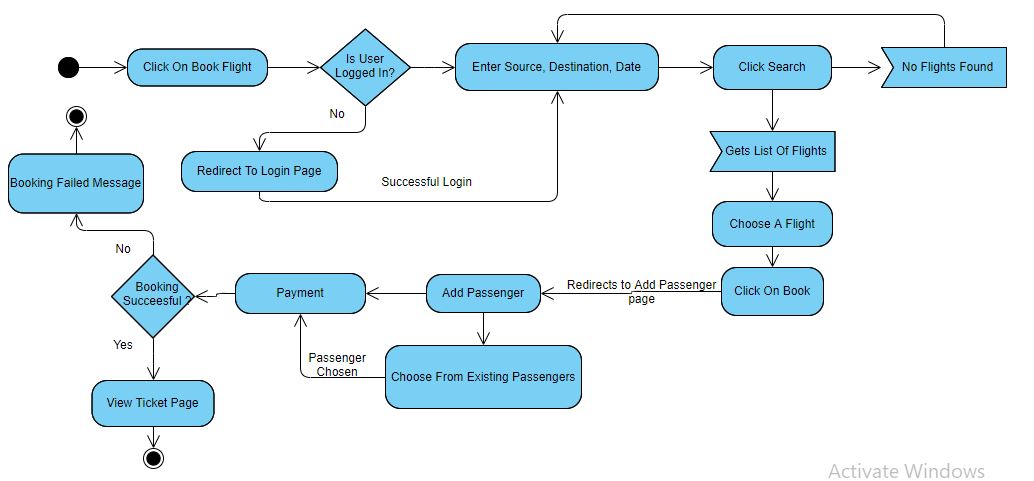
**Login:**



**Registration:**

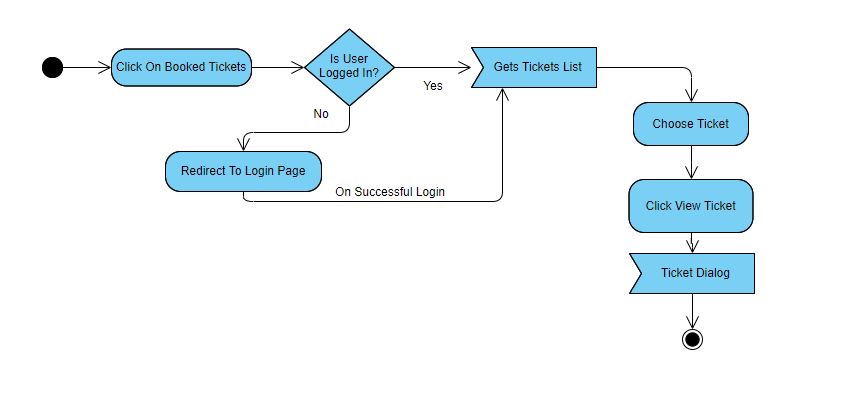


Flight Booking Service:

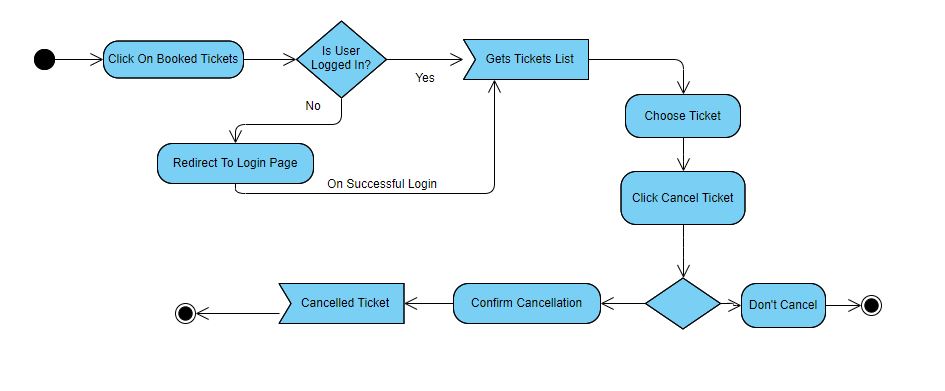


Ticket Service

**View Tickets:**



**Cancel Ticket:**



**Use Case Diagram**

