Technical Design Document

Project name: **HappyEasyFly**

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**Introduction:**

**HappyEasyFly** is created to meet the needs of online flight reservation system with 1 actors: User. The architecture implemented in Spring boot.

**Functional Requirements:**

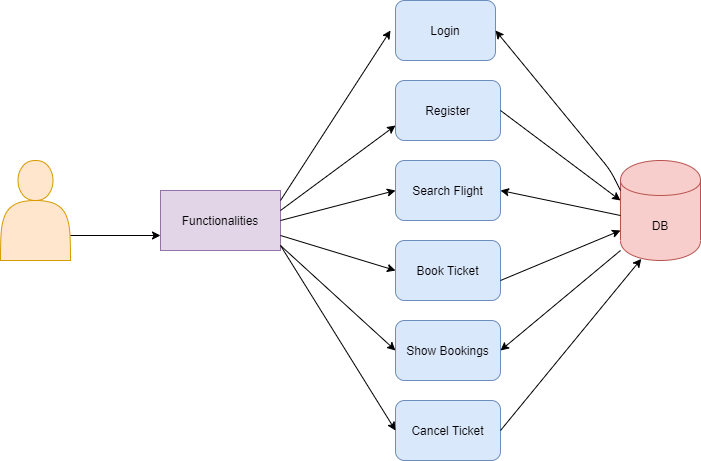
**For the User:**

* Login/Register
* Search Flights
* Create Booking
* View booked Tickets
* Cancel Tickets

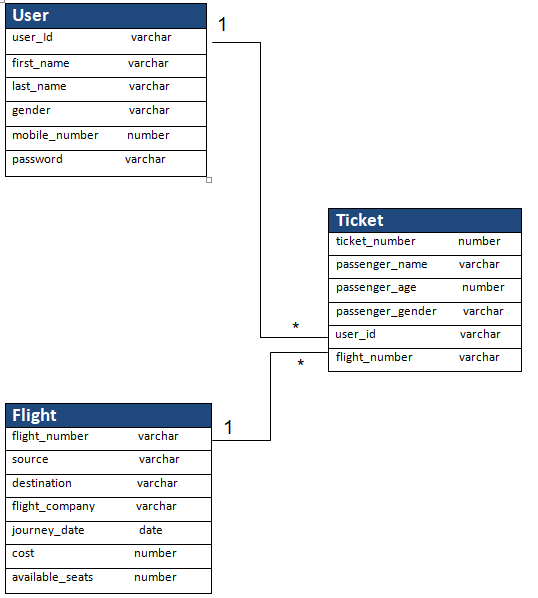
**Services:**

* **User Service:** Register a new account and login(as a user) and get booked tickets and cancel tickets.
* **Flight Service:** View all flights based on the details provided by the user, book tickets and getting the details of passengers.

**Overall Architecture Diagram:**

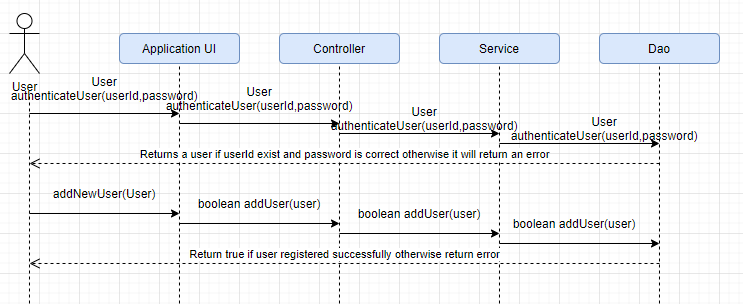
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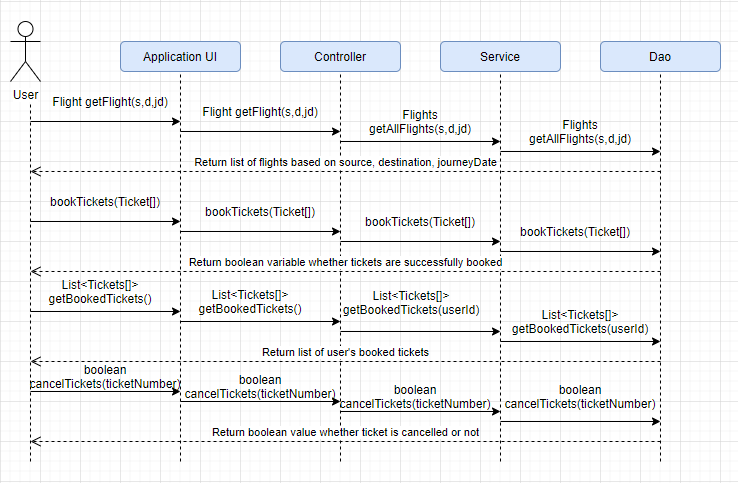
**Overall Entity Relationship Diagram:**



**Sequence Diagrams**

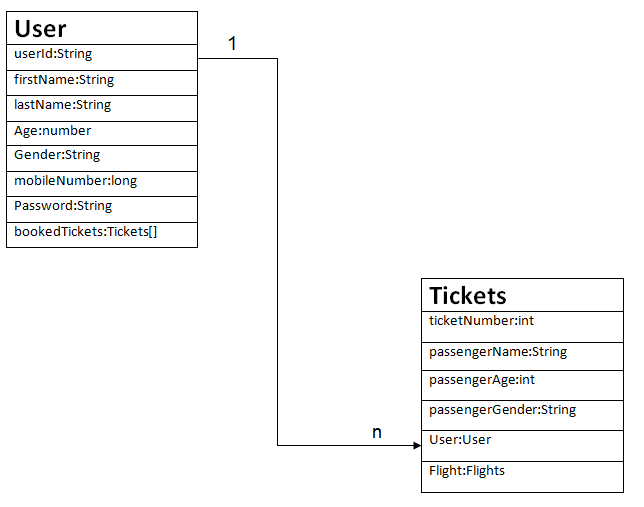
**Login and Register:**

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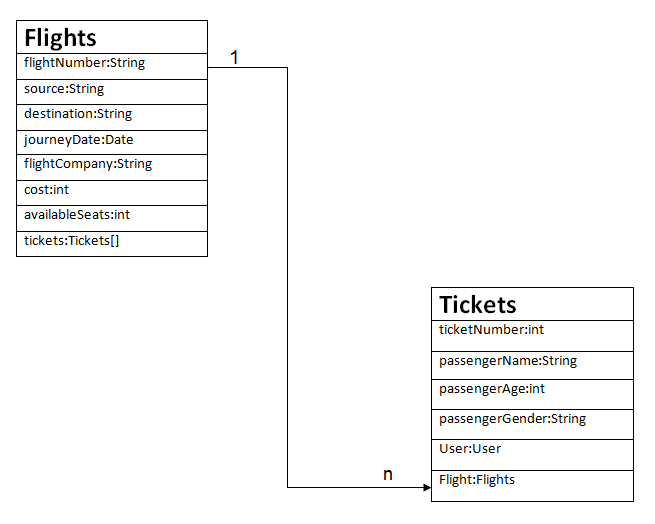


**Class Diagrams**

User class and Ticket class:

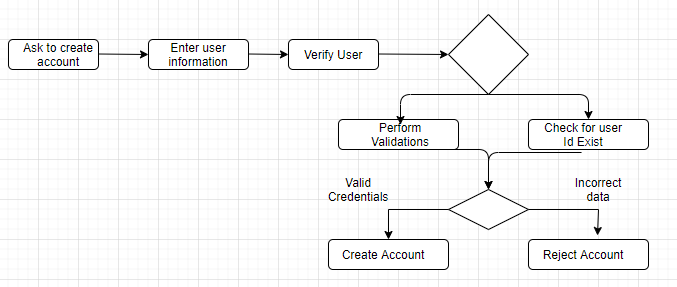


Flight class and Ticket class:

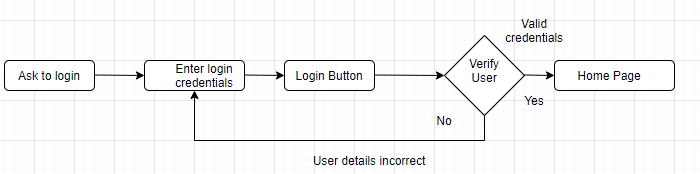


**Activity Diagrams**

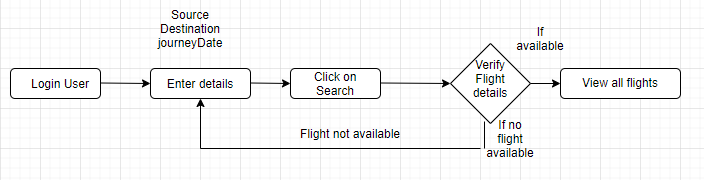
**Registration:**



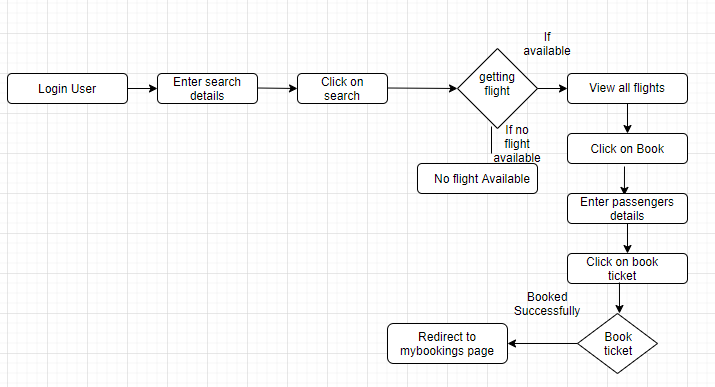
**Login:**



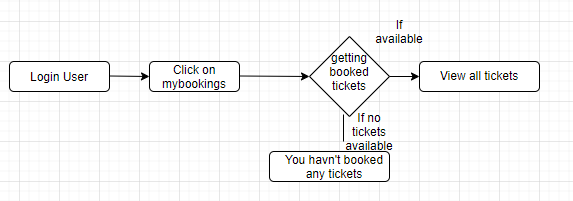
**Search Flights:**

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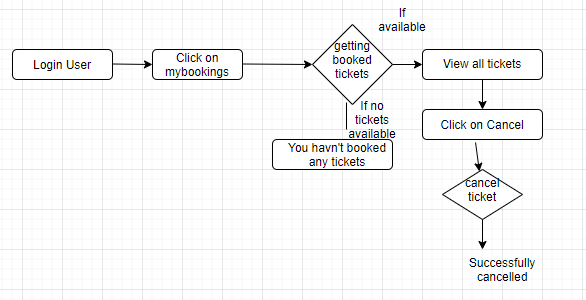
**Book Ticket:**

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**Get Booked Tickets:**

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**Cancel Ticket:**

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