**FLIGHT BOOKING SYSTEM**

Online Flight Ticket Booking system is an application/web-app that allows potential customers to search, book, pay, and check-in for a flight directly through the website. That means that all stages of booking from choosing a destination and source, ticket availability checking to paying and check-in for the seat reservation, are handled online that significantly reduces the staff workload and eliminates double bookings.

Developing a ticket reservation solution provides great opportunity to manage user details, bookings, and ticket reservations all in one place and get the flight reservation done fast and easily. Having that in mind, I am going to develop an application of the flight ticket booking system that takes flight no, source-destination, date, or other information from user and the application response back to the user with relevant services or details.

* **User Roles: -**
* **End Users -** They have basic permissions in the ticket booking system, can search the desired destination, availability, choose a seat, book, and check-in in one click.
* **Administrator –** He/she can manage every aspect of the application, has visibility to all features and change application properties.
* **Tools and Technologies**
  + **Technology/Domain:** Java.
  + **Frameworks**: Spring Boot, Spring MVC
  + **Front-End:** JSP, React/Angular
  + **Back-end:**  MongoDB
  + **Server:** Tomcat 9/10
  + **Messaging Service:** RabbitMQ

**WEB PAGES (Single Page)**

**PROJECT STRUCTURE**

* **Configuration**
  + Application Web Configuration
* **Model**
  + User
  + Flight
  + Booking
* **Controller**
  + User Controller
  + Flight Search Controller
  + Booking Controller
  + Search Controller
  + Check-In Controller
* **Service**
  + User Service
  + Authentication Service
  + Flight Search Service
  + Fare Service
  + Booking Service
  + Check-In Service
* **Repository**
  + User Repository
  + Flight Repository
  + Fare Repository
  + Booking Repository
  + Check-In Repository
* **JSPs**
  + Flight Search Page
  + Availability Page/ Flight Selection Page
  + Passenger Details Page
  + Booking Confirmation Page
  + Check-In Page