# Case Study: Flight Booking System

Front-End:

Main home-page:

* + Will contain navbar consisting of Title, Login, Sign-Up links.
  + In center will contain flight search container
  + Bottom section will have contact and links to social media.

Login-Page:

* Email input field
* Password input field

Sign-Up Page:

* First Name, Last Name
* Mobile No
* Date of Birth
* Email
* Password

Admin Page:

* Will contain list of all flights where admin can add, edit or delete any flights.

Booking Page:

* Booking form

View all booking page:

* List of all bookings along with cancel and check-in button.

Back-End:

Microservice 1: Flight Search

Search Function:

* user will enter source, destination, date.
* On submit will check flight database and will print the collected results in list in html. { Get method }
  + Result Format: Flight-No source Destination Fare Date Book

* If user is not logged in book button will be disabled and on hover a text message will appear prompting user to login
* If logged in book button will be enabled and when clicked will move to booking microservice.

Microservice 2: Admin

* On successful login will be directed to admin page. Admin can add, edit and delete any flight. Also admin can view bookings done by various users.

Microservice 3: User

Login In: check if email, password matches with that in user database if not say invalid email or password, if yes will direct to main home-page

When logged in user can see which flights he has booked in view all bookings page.

Logout: Will direct user to main-home page.

Can cancel the booking or check-In(will generate his boarding pass where user and user can save it in pdf format.)

Register: will add new user to user database. { Post Method }

Microservice 4: Booking

* Will be redirected to booking form, when passenger details are filled enter card details and pay. Once payment successful will be given a booking id and directed to view all bookings Page.

Database :

Flight Booking Database:

Flights Collection: Each object will contain flight-no, source, destination, date, fare.

User Collection- will contain document of each.

Bookings Collection- Will contain book form details, booking Id and registered user’s object Id.