



Week 9 - Project Report

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Topic :Angular Frontend - Flight Booking System & Spring Backend

The following document contains the description and explanation of the project **Angular Frontend - Flight Booking System with Backend Using Spring**. This project has all the required requirements of the Week 8 project. The project as of now implements JWT Auth - Login / Sign Up, Search Flights and User History.

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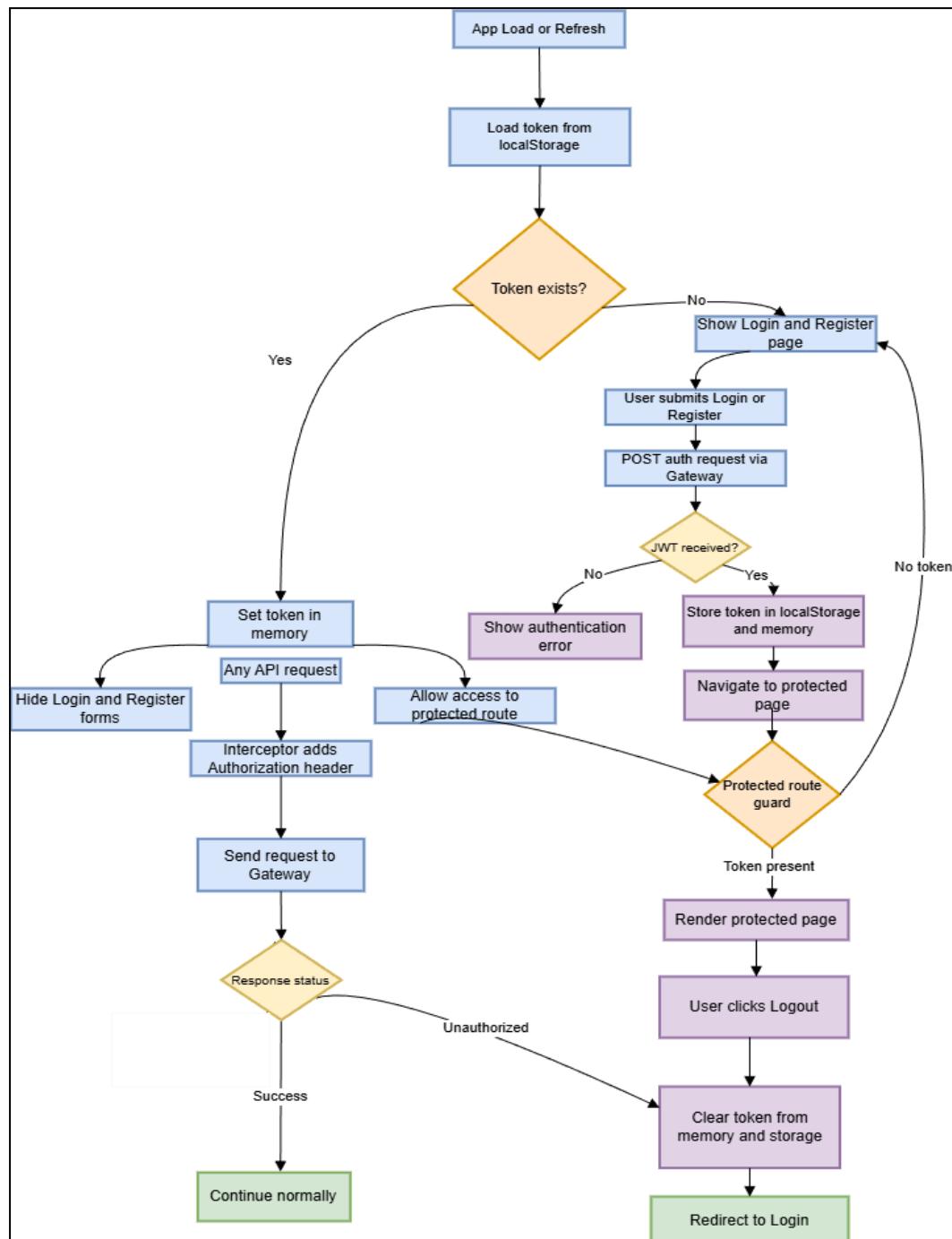
1. Project Overview

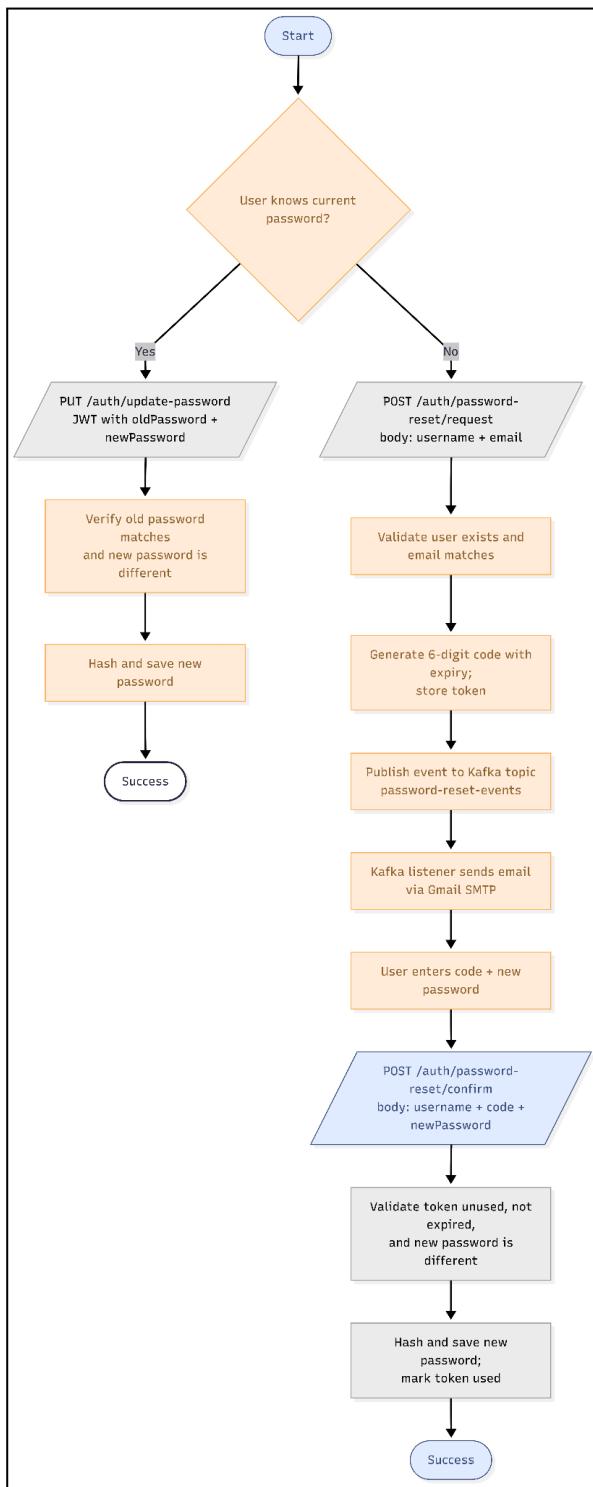
This project makes use of the “Dokerized Services” of “Flight Booking System” as the backend. It is made in Angular Js, with the JWT Auth and all validations.

Currently the project utilises these functionalities from the backend project

- Search Flights - PUBLIC Endpoint with no authentication required
- User Sign Up - PROTECTED Endpoint
- User Login - PROTECTED Endpoint
- User History - PROTECTED Endpoint
- Admin - Add Flight and Airline - PROTECTED Endpoint
- Change Password - PROTECTED Endpoint

1.1. Frontend Authorization Flow





2. Endpoints and Website Flow

2.1 Admin Panel

The screenshot shows the Admin Dashboard of the Flight Booking System. At the top, there are three buttons: 'Add Airline' (grey), 'Add Flight' (orange), and 'Logout' (orange). Below the buttons, the title 'Admin Dashboard' is displayed in orange, followed by the subtitle 'Manage flights and airlines'. There are two dropdown menus: 'Flight Status' set to 'All Flights' and 'Airline' set to 'All Airlines'. A table below lists a single flight entry:

Flight No	Airline	Route	Departure	Arrival	Seats	Meal	Price
GA1	GA	KANPUR → LUCKNOW	24 Dec 2025 04:07:00	25 Dec 2025 01:09:00	300	Yes	₹300

2.1 a) Add an airline

The screenshot shows a 'Add Airline' modal window. At the top, it says 'Add Airline' in orange and provides a subtitle: 'Create a new airline that can be used while adding flights'. The form contains two fields: 'Airline Code' with 'AI' entered and 'Airline Name' with 'Air India' entered. At the bottom of the modal are two buttons: 'Add Airline' (orange) and 'Cancel' (grey).

2.1 b) Add a flight

The screenshot shows a 'Add Flight' modal window. The form fields are as follows:

Airline Code *	Flight Number *	Source City *
AI - Air India	AI102	KANPUR
Destination City *	Departure Date *	Departure Time *
MYSORE	12 / 24 / 2025	11:00 AM
Arrival Date *	Arrival Time *	Total Seats *
12 / 24 / 2025	01:00 PM	300
Price (₹) *	Meal Available *	
3400	No	

At the bottom of the modal are three buttons: 'Cancel' (grey), 'Reset' (grey), and 'Add Flight' (orange).

2.1 c) Admin Login Page

Flight Booking Sys

User Login User Sign Up

ADMIN ACCESS

Sign in to manage

Restricted area for airline and flight management.

Admin Username

Email

Password

Admin Login

Not an admin? [Use the user login instead.](#)

ADMIN TOOLS

Manage airlines and flights

Secure access for creating airlines, adding flights, and maintaining schedules.

Admins only. User accounts should continue with the standard login and booking flow.

Flight Booking Sys

Login Sign Up

FLIGHT BOOKING

Find your next flight.

Compare one-way or round-trip journeys in seconds. Live routes, clear pricing, no fuss.

Smart routes
Type to search cities instantly.



One Way Round Trip

From

To

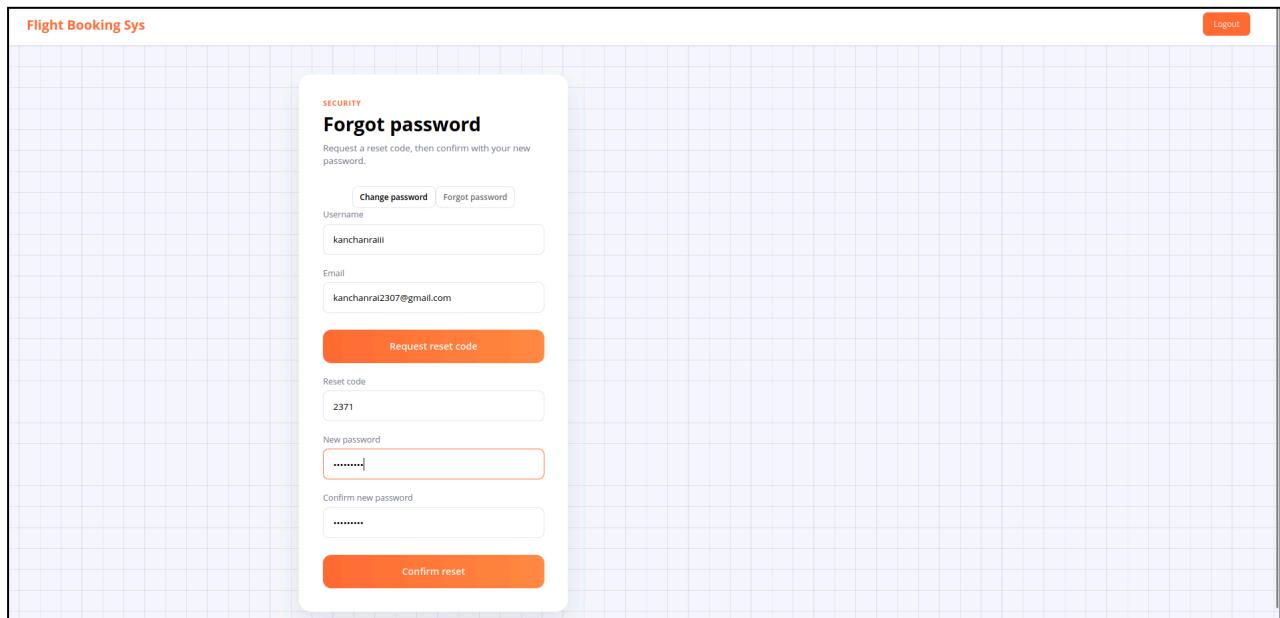
Departure Date

Search flights

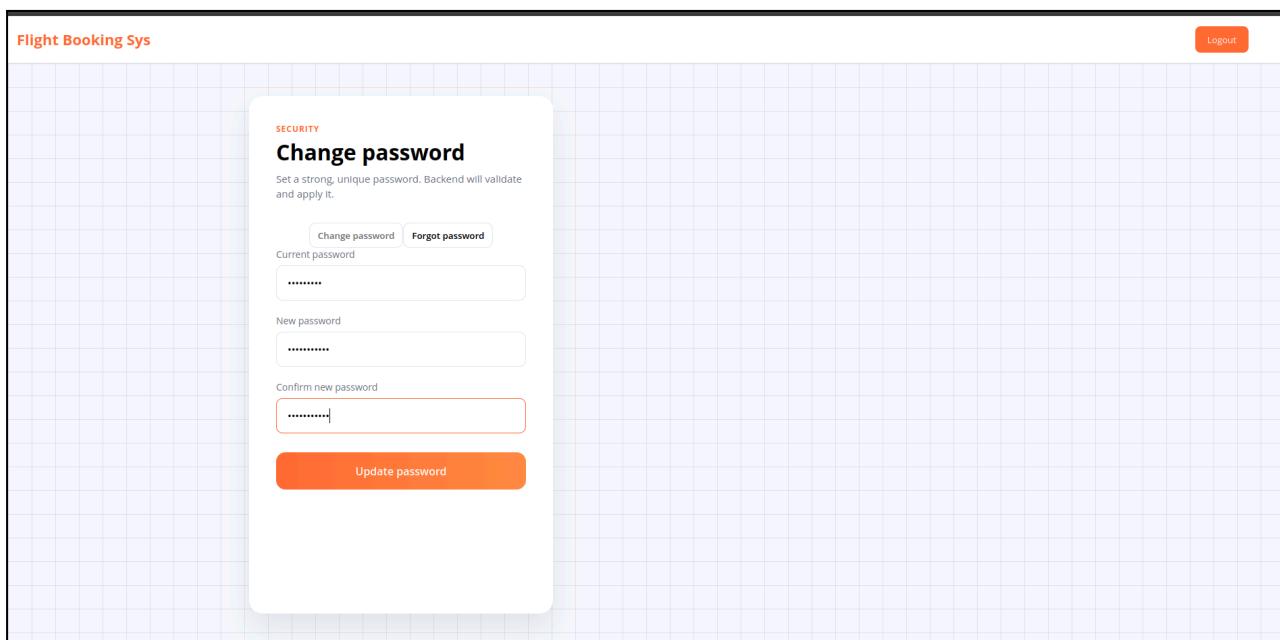
Available Destinations



2.1 d) Change Password



The screenshot shows the 'Forgot password' page of a Flight Booking System. At the top left is the system name 'Flight Booking Sys'. At the top right is a red 'Logout' button. The main content area has a white background with a light gray border. It features a heading 'SECURITY' and 'Forgot password' in bold. Below this is a sub-instruction: 'Request a reset code, then confirm with your new password.' There are two small buttons at the top: 'Change password' and 'Forgot password'. Below these are two input fields: 'Username' containing 'kancharaili' and 'Email' containing 'kancharaili2307@gmail.com'. A large orange button labeled 'Request reset code' is centered below the inputs. Below this is another input field for 'Reset code' containing '2371'. Then there are two more input fields for 'New password' and 'Confirm new password', both containing '.....'. At the bottom is an orange button labeled 'Confirm reset'.



The screenshot shows the 'Change password' page of the Flight Booking System. At the top left is the system name 'Flight Booking Sys'. At the top right is a red 'Logout' button. The main content area has a white background with a light gray border. It features a heading 'SECURITY' and 'Change password' in bold. Below this is a sub-instruction: 'Set a strong, unique password. Backend will validate and apply it.' There are two small buttons at the top: 'Change password' and 'Forgot password'. Below these are three input fields: 'Current password' (containing '.....'), 'New password' (containing '.....'), and 'Confirm new password' (containing '.....'). At the bottom is an orange button labeled 'Update password'.

2.2 Search Flights

The screenshot shows a flight booking interface. At the top, there are two buttons: "One Way" (highlighted in orange) and "Round Trip". Below these are input fields for "From" (Kochi), "To" (Mumbai), and "Departure Date" (17-12-2025). An orange "Search flights" button is located below the departure date field. To the left, there's a section titled "FLIGHT BOOKING" with the heading "Find your next flight." It includes a sub-section "Smart routes" with the placeholder "Type to search cities instantly." and a photograph of the Gateway of India in Mumbai. Below this, a "Results" section shows 2 found flights:

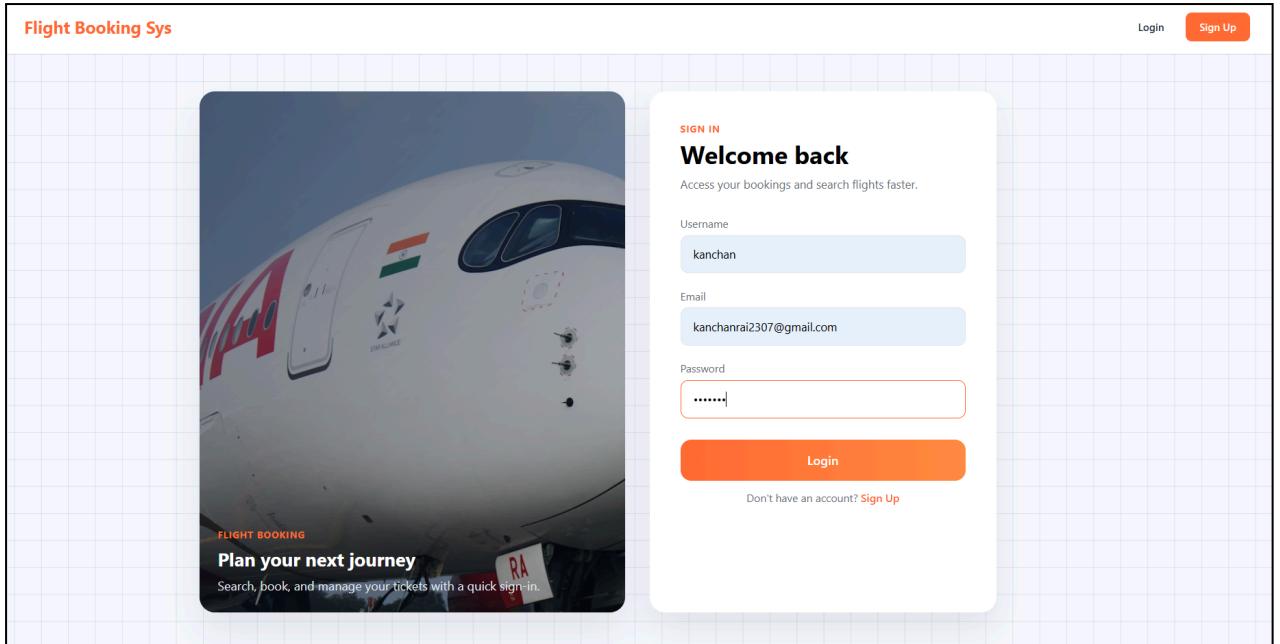
Flight Code	Airline	From	To	Departure	Arrival	Price
AI304	Air India	KOCHI	MUMBAI	2025-12-17 · 10:50:00	2025-12-17 · 12:55:00	₹ 3200
AI309	Air India	KOCHI	MUMBAI	2025-12-17 · 10:50:00	2025-12-17 · 12:55:00	₹ 3200

Validations

The screenshot shows a flight booking interface with validation feedback. A red banner at the top right states "Source and destination cannot be the same." The search form is identical to the one above, with "From" set to Kochi and "To" set to Kochi. The "Search flights" button is present. Below the search form, a section titled "Available Destinations" displays five thumbnail images of Indian landmarks: the Taj Mahal, a mosque, a temple complex, the India Gate, and the Vidhana Soudha.

Available Destinations									
Kanpur	Lucknow	Varanasi	Delhi	Bangalore					
									
Set as Source	Set as Destination	Set as Source	Set as Destination	Set as Source	Set as Destination	Set as Source	Set as Destination	Set as Source	Set as Destination
									
Set as Source	Set as Destination	Set as Source	Set as Destination	Set as Source	Set as Destination	Set as Source	Set as Destination	Set as Source	Set as Destination
									
Set as Source	Set as Destination	Set as Source	Set as Destination	Set as Source	Set as Destination	Set as Source	Set as Destination	Set as Source	Set as Destination

2.3 Login SignUp



Flight Booking Sys

The user history page shows a "User History" section with "Bookings (12)". It displays a booking for flight CD9B13 from LUCKNOW to KOCHI, status CANCELLED, on 2025-12-15. Below this is a "Booking Details" section for a one-way trip from LUCKNOW to KOCHI on 2025-12-15, with departure at 13:30:00 and arrival at 15:45:00. A "Print Ticket" button is available. At the bottom, there are PNR numbers BEC7F6 and BEC7F7, both in CONFIRMED status.

Docker containers running in the bg

