Flight Search Tool

Developer – Adwait Tathe

Instructions to run

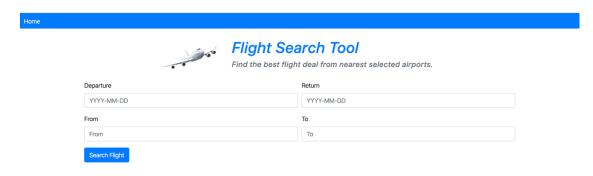
- 1. Open the application in one of the code editors. Install Node.js if it's not installed in Computer.
- 2. Run the command "npm install" in terminal to install all the node-modules file.
- 3. Run the command "npm start" in terminal to run the application on local server port 3000.
- 4. Open the application in Local Browser with URL "http://localhost:3000/" to run.

Implementation Details

- 1. I have used Express.js framework to design the application.
- 2. All the DB connection information is stored inside .env file
- 3. The User Interface is implemented using and EJS and BootStrap.
- 4. Datepicker is added for user to choose Departure Date and Return Date.
- 5. The Autocomplete Text is added for Departure Airport and Arrival Airport. The Airport information is fetched from MySQL database to put inside suggestions.
- 6. Input validations for Dates.
- 7. The grid on the left display Origin → Destination flight while the grid on right display Destination → Origin.
- 8. The REST API fetch all 15 flights from origin to destination.
- 9. I have used geolib npm library to calculate the nearest airport from origin and destination. The library calculates the nearest airports using LatLong information.
- 10. After getting the 10 nearest airports the REST APIs is used to obtain one result each for all the 10 airports.
- 11. If there are no flights returned by the API it will not be added to List and application will show only the available flights around nearest airports.

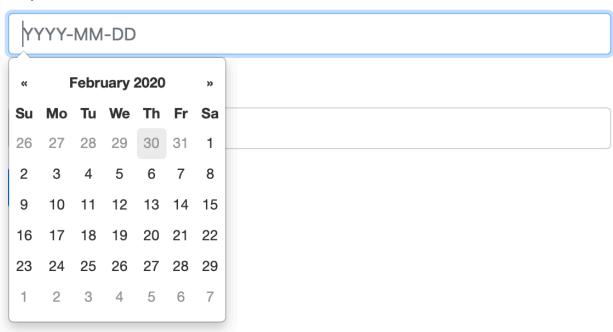
Application Screenshots

1. Home Page



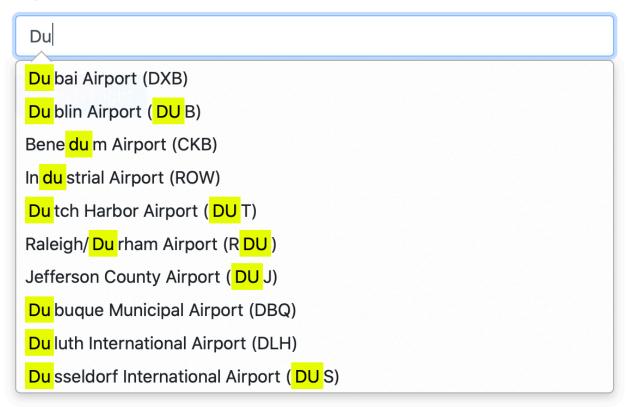
2. DatePicker

Departure

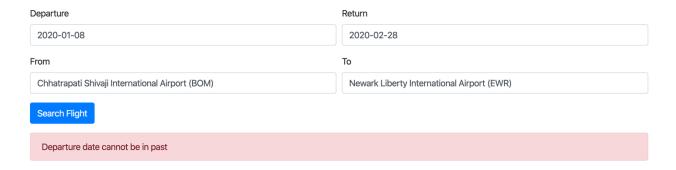


3. Autocomplete the Airport Name

From



4. Input Validations

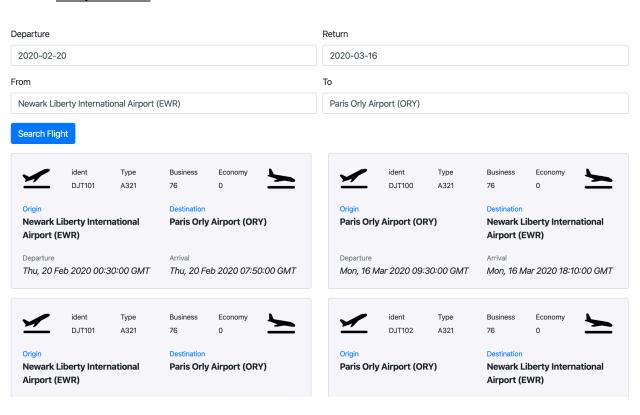


5. Input Data



Departure	Return
2020-02-12	2020-03-20
From	То
Newark Liberty International Airport (EWR)	Paris Orly Airport (ORY)
Search Flight	

6. Sample Result



7. Single Result Grid



ident Type
DJT101 A321

Business Economy

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Origin

Newark Liberty International Airport (EWR)

Destination

76

Paris Orly Airport (ORY)

Departure

Thu, 20 Feb 2020 00:30:00 GMT

Arrival

Thu, 20 Feb 2020 07:50:00 GMT