# INTERNET TECHNOLOGIES ASSIGNMENT REPORT

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**Group:** A1
**Assignment:** 3

# PROBLEM STATEMENT

Implement a web application for “Travel Thru Air” using servlets to support the following two use cases
1. A list of current special deals must appear on the home page. Each special deal must display the departure city, the arrival city, and the cost. These special deals are set up by the marketing department and change during the day, so it can’t be static. Special deals are only good for a limited amount of time.
2. A user may search for flights, given a departure city, time and an arrival city. The results must display the departure city, the arrival city, the total cost, and how many legs the flight will have.
State and explain why and where you have used design patterns.

# SOLUTION APPROACH

There are 2 servlets as follows:

- **SpecialDealsServlet-** Responsible for rendering a list of special deals.
- **FlightsServlet**- Responsible for rendering a list of flights based on source and destination city and departure time provoded by user.

The special deals are objects of SpecialDeal class and flights are objects of Flight class. An arraylist of respective objects is initialised in the servlets and it is set to a request attribute before dispatching to the respective JSP.

The FlightsServlet also checks for errors and in case of error dispatches the request to a different jsp named error.jsp after setting the error message as request attribute. The following errors are handled:

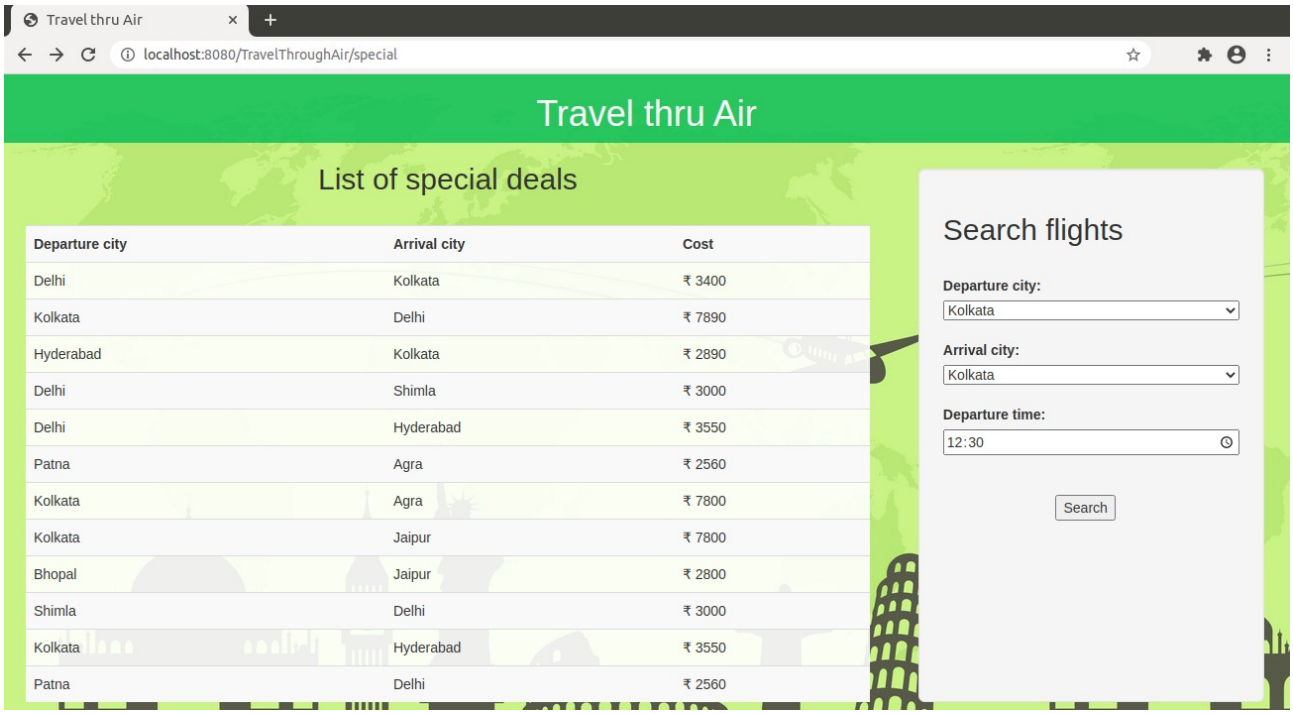
- Destination and arrival city same.
- Time is invalid
- No flights with the given input available.

# SALIENT FEATURES UNIQUE TO MY APPLICATION

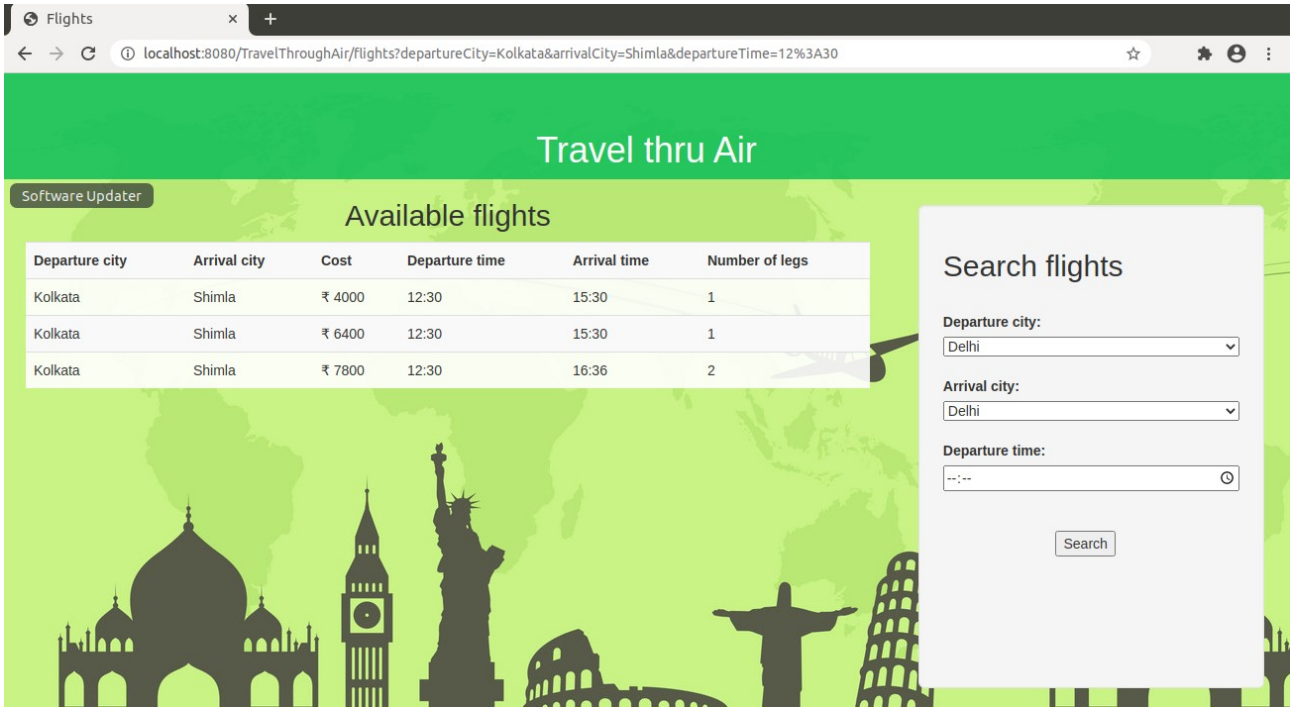
- Follows MVC architecture.
- Provision for handling error in user input.

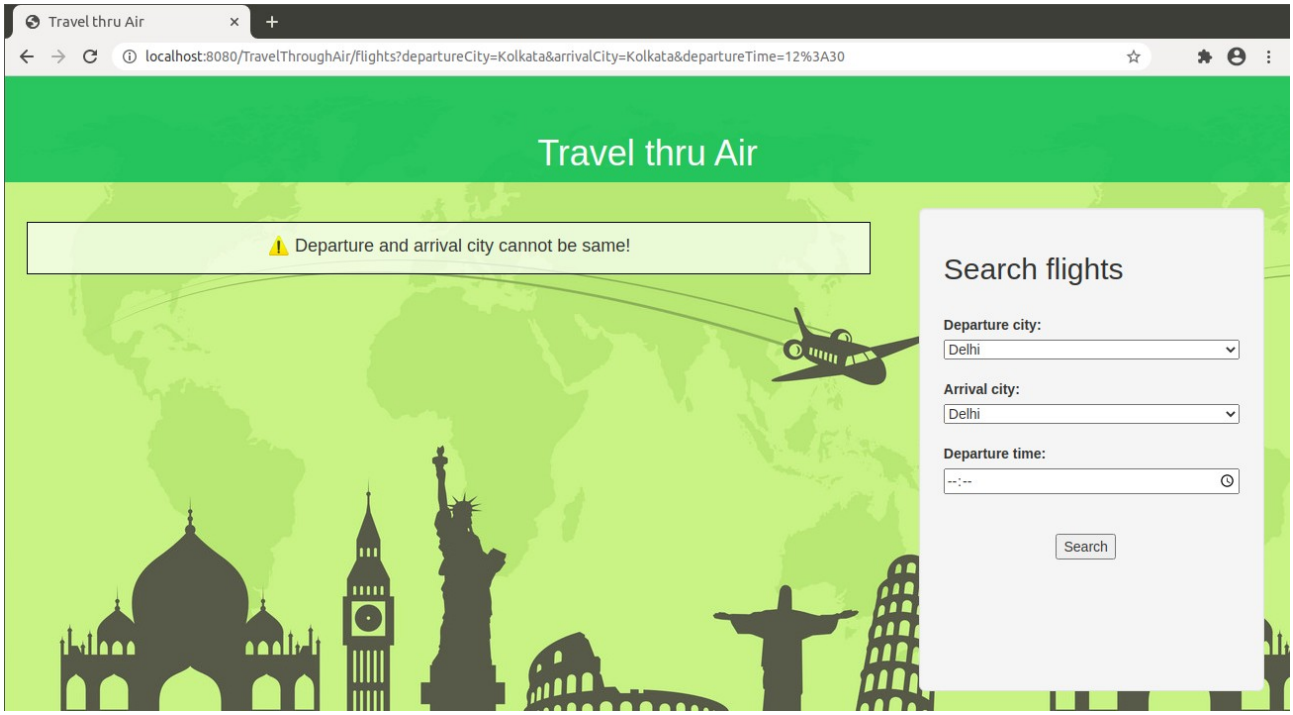
# SCREENSHOTS

## 1. List of special deals



# 2. List of flights from Kolkata to Shimla




# 3. Error: Source and destination same