The purpose of this project is to create web services to enable users to receive flight information based on different search parameters. A trip is signified by a user wishing to travel from A location to B location by referencing the city name of departure and arrival cities.

The web services are created to fetch the details of trips based on the following parameters  
a) departure\_city,

b) departure\_date,

c) arrival\_city,

d) return\_date

The following trip types have been taken care of while creating the web services.  
a) Single Trip (A to B)

b) Round Trip ( A to B and B to A )

Pagination has also been added in the web services with ‘page’ parameter  
  
**Technology/Framework :** The web services have been created with REST protocol under the Laravel framework.  
  
**Database Used:** Mysql database has been used for storing the data and corresponding sample database SQL file has been attached in the database folder(flightWebServices.sql).

Following database tables are used:  
a) Airports

b) Trips

c) Airlines

d) Flights

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Srno | WebService Name | Description | Local API URL | Parameters | Method Used |  |
| 1 | airports | This API is intended to show all the airports information | <http://localhost:8000/api/airports> |  | GET |  |
| 2 | flights | This API is intended to display all the flights and their information based on certain parameters | http://localhost:8000/api/flights?departure\_city=Montreal&arrival\_city=Vancouver&trip\_date=2019-01-15& return\_date=2019-01-18 | a)departure\_city  b) arrival\_city  c)departure\_date  d)return\_date | GET |  |