**Back End Components**

**Controllers**

1. **AirPortController :** This will provide search on AirPort Data. All data is indexed using lucene to support text based Search.
2. **AirLineController** : This will provide details of the AirLines.
3. **FlightSearchController :** This will communicate with third party service and return matching flights.

**Separate** Services are added for each controller. Guava caching is used for Airprot and AirLine.

**Improvements :**

**1.** Flight data CSV timings were not correct.

2. For popular source/destination we have to catch all the events in real time and run a job on top of that.

3. Caching can be added when we fetch flight from third party.

4. Popularity of source/destination airport can be maintained by popularity field and index on this field.