CS 225 Project Development

Haijian Wang
Alex Che
Sabien Bell
Aasheesh Randeo

Week #13 (11/16 - 11/20)

- Team Contract uploaded on GitHub

Thanksgiving Break (11/21 - 11/29)

- New teams finalized over break. No work done as such.
- Team Contract uploaded by Aasheesh

Week #15 (11/30 - 12/6)

- Worked on a project goals document to get an understanding of the direction the project is headed towards. Decided to use the OpenFlights database, using which we treat the airports as vertices and routes between them as edges of the graph.
- We concluded that we will use the Dijkstra's Algorithm, a BFS algorithm, and the Eulerian Path algorithm for the implementation of our project.
- Divided work between teammates as to who will be responsible for coding which part of the project
- Met with the TA for mid-project progress update

Week #16 (12/7 - 12/11)

- Constructed the data structure by parsing in the data from the Open Flight Database by representing each airport as a vertex on the graph and the paths between them as edges. Position of the vertex on the graph was implemented using the latitudes and longitudes within the dataset for each airport.
- Worked on BFS/Iterators for traversing through the graph.
- Developed Eulerian Path to find the unique paths that do not overlap each other (Finding different unique paths from starting airport to the destined airport without stopping at the same airport midway).
- Implemented the Dijkstra's Algorithm to find the shortest path between two airports or vertices.
- Started developing final presentation video, slides and wrapping up the project.