DreamLine

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Dreamline is a web application intended to help travelers find the best airline and flight options available. The project aspires to rank all flights available from every commercial airline according to prices, aircraft types, and comfort rankings. All of which should comply with the users time and date requirements.

Key features implemented for the first scenario are searching available flights, information availability for specific flight information, and viewing a list of different flight scores which can be filtered according to the preference of the user.

Scenario “Flight Search”

The user opens the app by typing the name of the program into the command line, launching the executable.

When the user first launches the program, the system displays an opening welcome screen and briefly explains the purpose of the program. The user will also get a quick overview of the options available.

The program will then load up the database(s) storing the information on various airline details and comfort rankings. The program should always be able to load up the data from the previous use. If there are any problems loading the data, the program may try to run with partial data or abort, depending on the severity of the issue. Upon successful load, the program will display the initial menu from which the user can choose to navigate.

The initial menu options will be: “search”, “input flight”, and “view score”.

The “search” command will allow the user to search up any flights from the flights present in the database. For this initial scenario, a preliminary database will be created with a small sample of entries to simulate the final outcome. When the user selects a flight from the search results, it will be displayed in greater detail, including the departure and arrival times and locations, type of aircraft, price, and comfort details.

The “input flight” command will allow the user to look up the information for a specific flight by entering either the flight tracking number or the departure/arrival location of the flight. If the flight is present in the system’s database then the user will be able to select it to view more details. If not, an error message will be displayed.

The “view score” option will lead to a display of all the flights available ranked by dreamtime scores. The user will be able to filter by location and time and view the flights relevant to them that have high dreamtime scores.

When the user exits the application, either by selecting the “quit” button or by closing the window, the executable will store any data that needs to be stored and then close down.

Figure 1 - Diagram of creating the flight search