CSSE333: Status Report

Team Number: S2G4

Week: 9

**Planned User Scenario:**

Matt Boutell, a user, should be able to use all the functionality of the database. This means he should be able to login, manage his dependents, add flights, add himself to an airline, submit load requests, and update load requests. Additionally, there should be indices to make these operations faster.

|  |  |  |
| --- | --- | --- |
| **Team Member** | **Task** | **Hours** |
| Thomas Bioren | I spent some more time learning about indices because I wasn’t very comfortable with them. Added the following indices:   1. Index on flights sorted by departure date. We’ll probably want to sort by date. Additionally, when the database is old, selecting dates in the future will become highly selective. 2. Index on load request sorted by date submitted. It’s important to grab the oldest relevant ones first to prioritize them. 3. Index on airline by alliance. There aren’t a lot of alliances, but I think it’s important to quickly group airlines together. This will allow “operated by” flights. Basically, airlines in alliances will often list flights operated by other airlines as their own and this will allow us to efficiently find those. 4. Flight by available seats. There’s already an index on flights by destination, so we need to be able to sort by what flight has the most seats available. 5. Similarly, there should also be an index on Flight by last load update. It’s important to know how recent the data is.   All other important indices are already created. This includes indices such as Employee to Dependent, Airline to Flight, Flight to Destination, etc.  I also added the ability for employees to undo removing dependents by entering their username. I consciously chose to do it by username because I feel it’s important for users to not be reminded of blocked users. | 4 |
| Carson Holscher | Added the ability to delete & update flights, & add, delete, & update destinations. | 8 |
| Christopher Kim | Completed implementation of Load Request (logged in employee can create, update, and delete load requests). Modified Carson’s implementation of retrieving the Flight List to only retrieve flights that are being flown by the same Airline as the employee. Working on retrieving current employee load requests. | 6.5 |

**Signatures:**

Thomas Bioren: Thomas Bioren

Carson Holscher: Carson Holscher

Christopher Kim: Christopher Kim

**Next Week’s Planned User Scenario:**

The database should be complete. This means an employee should be able to log in, add flights that their airline offers, create a load request for another airline’s flights, and fulfill load requests for their airline's flights. Additionally, dependents should be able to view flights’ loads and add themselves as dependents to an employee. Employees should be able to add destinations to the database as well.

**Next Week’s Planned Work:**

**Thomas Bioren:** Create a script that creates the DB. Look over all my sections to make sure they work properly and clean up some of the UI. Add the ability for deleted dependents to re-add themselves to an employee.

**Carson Holscher:** Add a page for viewing flight information, because that is the purpose of this application

**Christopher Kim:** Refine load request page (improve formatting, functionality). Verify current database scripts (creation of tables, stored procedures, and more) are up to date and correct.