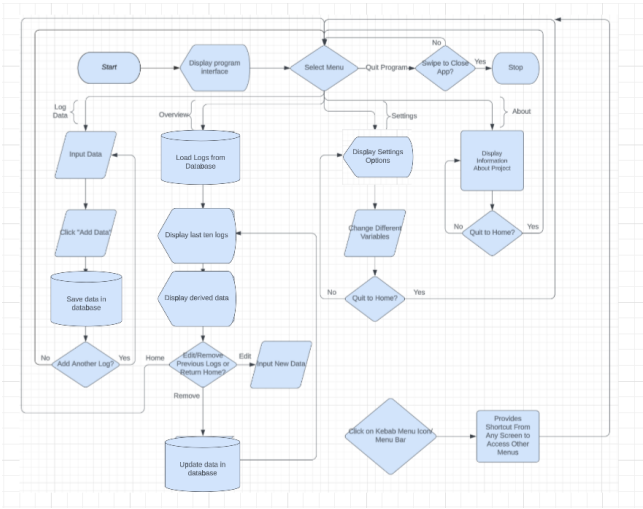


Criterion B

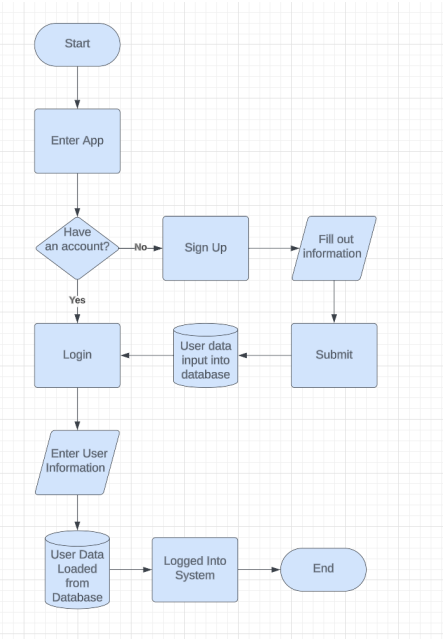
Monday, March 27, 2023 12:26 PM

Criterion B: Flowcharts

Main App Functions:

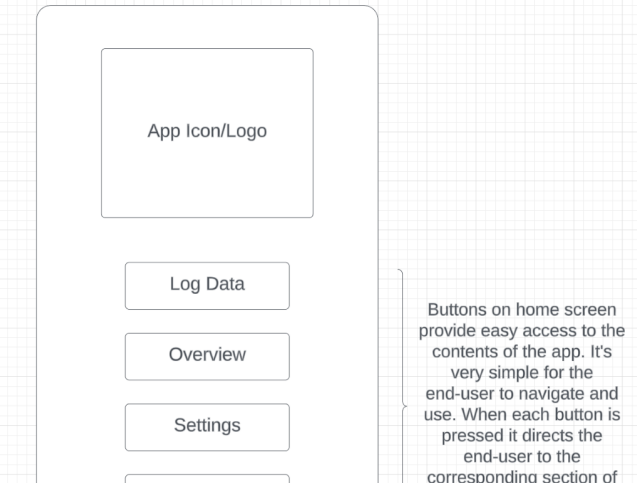


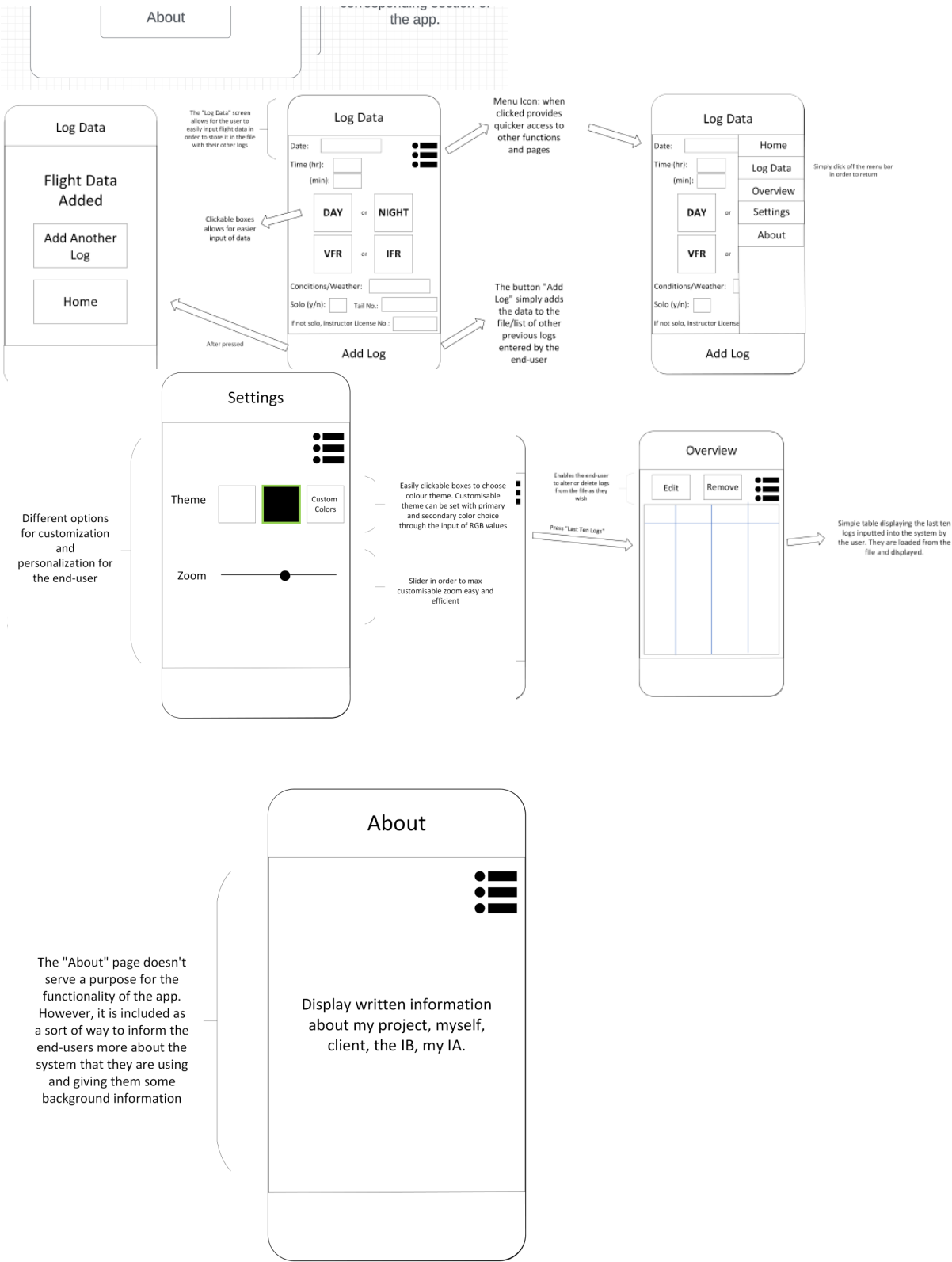
Login System:



Criterion B: Prototype Design and Functionality of System

The following designs outline the potential designs and functionality of the system:





Criterion B: Test Plan

Success Criteria	Action to be Tested	Test Description	Expected Result	Possible Errors
1	List of flight logs updates itself	Input appropriate data into the prompts for the flight logs. Add the log.	The log table refreshes automatically after data submission to let the user know it was added along with a submission confirmation	List fails to refresh.
2	Input Data	Use "Log Data" page. Type or input data into prompts. Add data to list.	Data displayed in an easy-to-view table after input	Incorrect formatting.

3	Save data in a database	Use "Log Data" page and submit a log to the list of logs.	The appropriate data that was inputted is added to a collection of flight logs in a database.	Data fails to be sent into database.
4	Present a summary or derived data	Click to the summary section of the "Overview" page	Derived data like "Total Flight Hours", "Days Since Last Flight", etc. displayed for the user	Data calculated incorrectly. Incorrect formatting.
5	Personalized Settings	Use the "Settings" page to change certain things about the display of the app	Each user, when loading the app, is assigned a set of personalized settings of their own choice within the database. This is then displayed to them when logged in.	Incorrectly uploaded to database. Personalized settings not saved to account. Incorrect formatting of themes or zoom.
6	Add rows of flight logs	Very similar to success criteria 1 and 2, use the "Log Data" page to input a flight log.	The flight log, then, is added as a new row in the list of flight logs	Incorrect formatting of the row and data.
7	Edit rows of flight logs	Press the edit button on the overview page and change data of a specific log within the list of logs	The data is then updated within the database and also the table of logs on the screen	Database isn't updated. Table isn't updated/incorrect formatting
8	Delete rows of flight logs	Press the remove button on the overview page and delete a specific log	The specific flight logs is deleted from the database as well as the table displayed to the end user	The flight log isn't fully deleted from either the database or the table. The app doesn't refresh itself
9	Sort last ten flights by date and display to the user in a page	Enter the "Last Ten Logs" page of the "Overview" page	The last ten logs dates entered with their logs are displayed as a table for the end user	Incorrect formatting of the logs/table. Logs ordered by date of logged and not date of actual flying
10	Clients are able to register	Input and submit appropriate data into the register page.	New user created in the database	User data inputted incorrectly into the database
11	Clients are able to login	Enter correct user data into login page.	User cookie gets created that corresponds to the user data inputted.	Incorrect user cookie gets created.
12	Exit app without losing data	Swipe out of app on iOS system	Data is saved into database	Data deleted from database after closing program.

Criterion B: Database Schema

User Schema:

```

1 {
2   name: String,
3   surname: String,
4   password: String,
5   email: String,
6 }

```

Flight Data Schema:

```

1 {
2   date: Date,
3   timeOfDay: String,
4   duration {
5     hours: int,
6     minutes: int,
7   }
8   vfrTER: bool

```

```
8      vfrflr: Boolean,  
9      conditions: String,  
10     solo: [{type: boolean, default: false}],  
11     tailNo: String,  
12     instructorLicense: [{type: String, default: "blank"}]  
13 }
```

Criterion B: UML Diagram

