SDV602 Milestone 2

Journal #2

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# Milestone #2

For milestone 2, I just needed to add an upload file button and function, as I already had the local data plotted in the first milestone.

Creating an upload button is not easy, as there are a lot of possible CSV files that could be uploaded, and you must decide where to draw the line on the reading restrictions.

I ended up settling with creating outlines for the file read that would allow a related CSV file to be uploaded and read. These outlines consisted of the CSV file requiring a total ‘count’ column and depending on if it is a pie plot or bar plot, an information column that could be used for the plot legend, and/or bar Y axis.

Making it this way means that the CSV file must contain data that would be relevant to the original plot, and not allow any CSV file to be uploaded, minimising the chance of bugs at run-time.

I have limited the entries to 8 entries on bar plots, and 6 on pie plots. I will implement functionality into the data filtering input box that will allow the user to change how many entries can be used in the plots.

# Modules

For milestone 2, there is a big emphasize on creating an application that uses modules to contain each DES. Originally, I had all 3 DES in one file.

The file had over 600 lines of code. I deconstructed each DES into separate files, then I can call the ‘main’ page in the ‘main.py’ file.

Deconstructing each DES allows the application to be easier to read. It also breaks up the 600 lines of code into a smaller number of lines. It also allows certain functions to be used by all 3 DES.

# Misc.

Also changed the navigation between each DES from a drop-down box, containing each DES name, to buttons in the top right of the screen to navigate to different windows.

Additionally, I am trialling a refactored version of the application that uses classes instead of modules and functions.

# What’s next?

I already have the login and register screens and functionality. I also have an SQLite3 database file that will contain the username and password for each user and contain new accounts.

So, I will need to focus on the data filtering functionality and creating the live-chat window.

I have already uploaded each CSV file to Google Sheets, but I removed it because Milestone 2 requires reading of local data.