**Team Name:** \_\_\_\_πthon\_\_\_\_

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**Basic description**

Our goal for this project is to create a money management system. The system will use python and excel to manage and manipulate data in order to help the user manage finances.

The input of data collected will be only the user’s finances and the output of the data collected will be a plethora of useful statistics, figures, and graphs that help visualize and manage money.

**Majors changes / alterations**

* Changed dates to date/time objects
* Changed how we passed in dataframes
* Rewrote how we add espenses

**User stories, Estimation of difficulty, Estimation of time, Who coded the story/Pair programming chart**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Title | Description | Difficulty | Est. Time | Act. Time | Pair |
| Main page gui | Displays button and df | medium | 40 min | 1 hr | Nikhil and Austin |
| Delete an expense button | User can click button to delete an expense | medium | 20 min | 30 min | Nikhil and Sujay |
| Add expense button | User can click button to add expense | medium | 20 min | 40 min | Nikhil and Hamza |
| Time series chart button | A times series of the expenses | medium | 20 min | 60 min | Andrew and Austin |
| Pie chart | Make a pie chart out of type and price | medium | 30min | 45 min | Sujay and Andrew |
| Create a type dictionary | A dictionary of different types and prices | easy | 5 min | 5 min | Austin and Sujay |
| Pie chart button | Click button to display pie chart | easy | 10 min | 12 min | Andrew and Nikhil |

**Overall accomplishments of the Project**

* Modify expense date
* Modify expense category / type
* Modify expense amount
* Delete an expense
* Add new expenses
* View scatter plot of data points
* View best-fit-line of data points
* View Pie chart
* Easy access through a GUI

**Alterations/changes from release #1 and #2**

Update user input code

Update dictionaries

Update how data is read into graphs

**Things that were dropped for final release**

Monthly spending projection, Yearly spending projection, Weekly spending projection, Daily spending projection

**Things that were added for final release**

Pi chart for percentage spending, Use data to project overspending, Export spreadsheet, type and price dictionary

**Things you learned during this multi-week project**

We learned how to use matplotlib, pandastable, more tkinter stuff, and break statements. We found out matplotlib is a very easy to use graphing library that has many functions. We also learned that pandastable has a lot of calculating fields that can be used, but we did not use it because it was too advanced for our purposes.

**Reflection on how the team functioned during the project**

There was miscommunication the first release as to who will turn in the project but other than that the group functioned pretty smoothly.