

PT-K Milestone 3

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COMP 3020 A02

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November 26, 2021

Techsplanation:

- Web Technologies: HTML, CSS, and Javascript
- Collaborative Tools: GitHub, Visual Studio Code, and Webstorm.
- Libraries:
 - Chart.js (chartjs.org): It is an open source Javascript chart program for websites. We used it to create the line graph, bar graph, and doughnut chart, and simplify data for representation.
 - jQuery (jquery.com): jQuery is a popular JavaScript library that helps us to manipulate, handle DOM and HTML elements.
- Our Approach: Throughout the creation of this website we maintained strong communication, meeting several times a week, during which a lot of bugs were fixed and new features added (often at unreasonably late hours). This allowed us to all maintain an awareness of what was going on in each other's code, even if we weren't working on that section ourselves, and debugging goes faster when you can try everyone's different ideas.

Design Deviations:

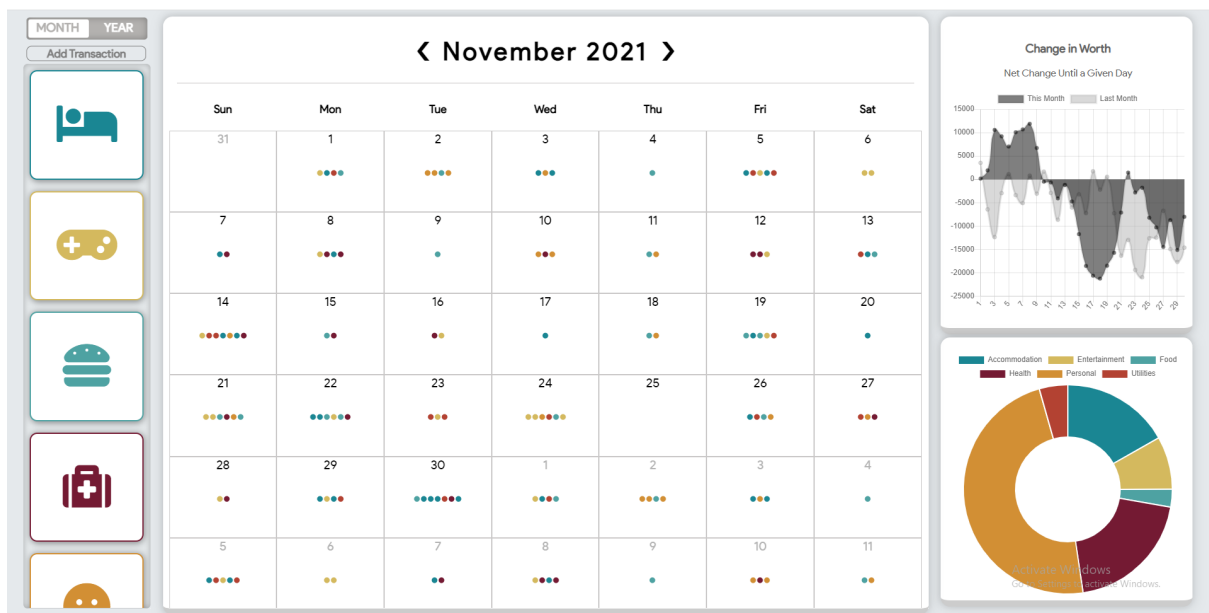
- The day view no longer shows the exact time a transaction took place. It was decided this information was unnecessarily specific.
- The day view no longer highlights the selected day in the monthly calendar. Again, it was decided this was unnecessary, as the information is already in the day view, and the added highlight would draw the eye away from the important information.
- Adding a transaction while in the day view is not set to the selected day. It instead is always set to the current day, the most likely day for a transaction to be added.

Evolutions:

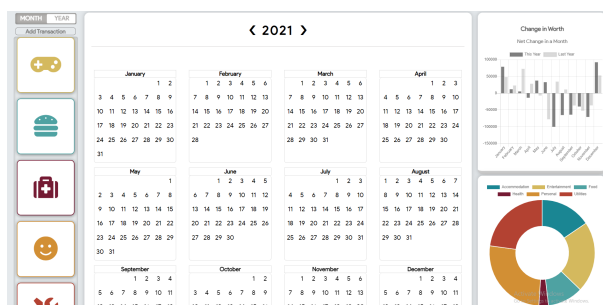
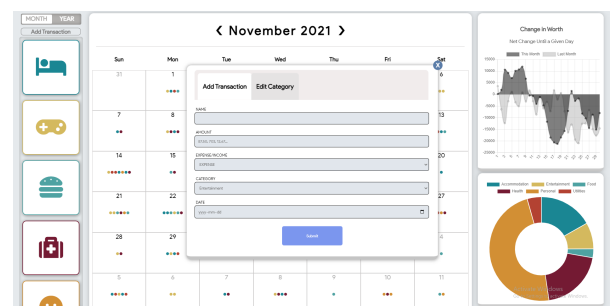
- The line graph now presents its data in comparison to the previous month. This provides a more accurate idea of the users financial trends.
- Added a label to the category buttons after confusion from participants over the purpose of the buttons.
- When hovering over a category, a category name, as well as total of income and expenses is shown. The former is to reduce the confusion participants showed as to the exact category of each button, and the latter is more in line with our final tracker tracking both income and expenses, rather than only showing a budget for expenses.
- Added an option to edit categories, a natural extension of adding and deleting them.

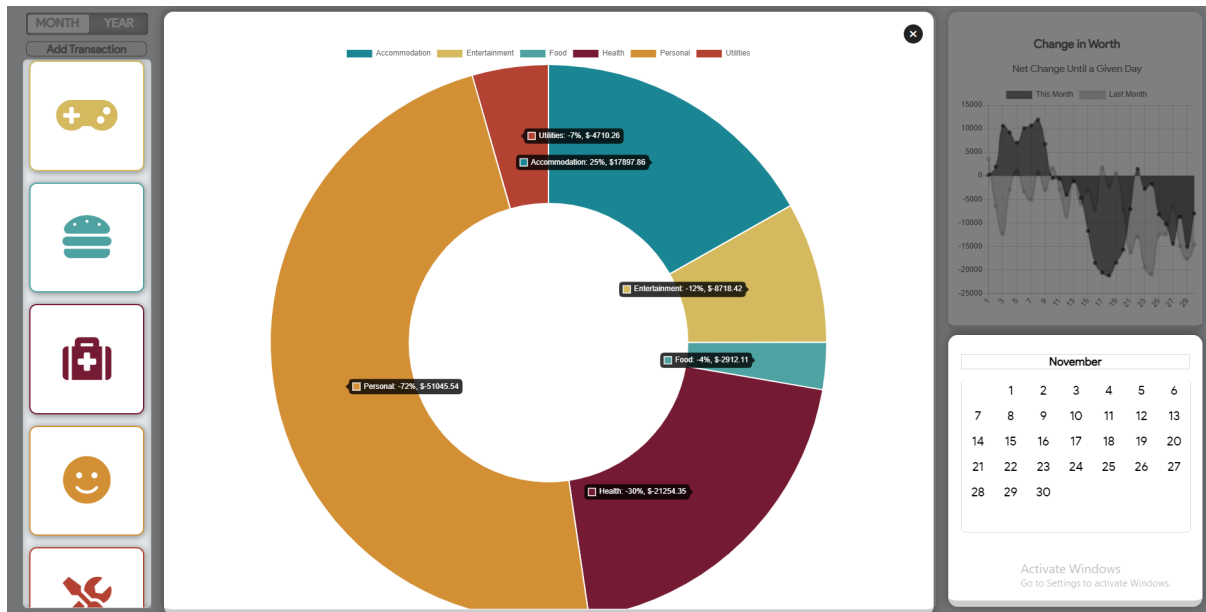
Usability Sales Pitch:

- The primary goals of our design were to maintain a simple, visible interface that allows users to quickly intuit its usage, navigate quickly, and keep our information easily understood, without losing the features that allow a comprehensive overview of the data, keeping our tracker effective.



- Our program is all viewed on a single page. There is no scrolling or loading of new pages, with different actionable interfaces appearing in overlay, rather than on a separate screen. This allows us to maintain clear and concise navigation; it takes a maximum of two clicks to reach any possible view of the program from the main screen.
- i.e. click a day to see the day overlay, click a category icon to see the transaction overlay, click the year toggle to view the months of the year, etc.





- Our program is also highly visible, while not overwhelming the user with too much data at once. Our charts are off to the side, but when clicked open into a much larger, more visible view, as well as providing tooltips when hovered over. The calendar has dots representing transactions on each day, which you can click on to enter the day view and get an overview. Finally, you can hover over the individual category buttons to gain more information about the total values and names of each.

