

COMP4920

Project diary

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Week 3

In this week, we discussed about the project plan. We have planned to implement a financial planner, that includes an expense tracker that shows the income and expense of a tracker, an budget tracker that tracks if the expenses exceed the budget in a month, and a feature to export the data into a CSV file. As we plan to write the planner in React, which is something I am not familiar with, I have to take some time to learn that.

Week 4

In this week, we start to divide the works by the pages that will be included in the financial tracker. I am assigned to work on the budget page. It is going to be a page that shows the budget assigned, and the percentage of the budget spent. It also consists of a pie chart and bar chart that show the distribution of the budget. Moreover, there are buttons to allow adding and deleting budget. Such design will be consistent with the one for expense tracker. As mentioned last week, I have to learn the basic coding in React to write the planner, so I have started learning this.

Week 5

As the seminar presentation is on this week, and we still need some setups, there is not much progress. However, I have planned for the basic design of the interface of the budget page. The charts will be shown at the left hand side, and the list of budgets is shown at the right hand side. And then the button for adding budget will be added at the bottom, while the delete button for a budget will be shown when pointing at a budget on the list.

Week 6

As now the basic setup is ready, I have created the basic functions in the page, including retrieving data from database, displaying the list of data, and creating charts. I wrote a function that automatically generates the colours for each value on the chart, but for some reason the colours keep changing every second. I think it can be fixed by making the generator into a singleton.

Week 7

In this week, I changed the design of the budget list so that it looks more proper. After discussing with other group members, I made the colour generator changing after certain seconds. After that, I will move on to create the add button so that the page is more complete. I have to know how to send data with the use of state in order to create this function.

Week 8

In this week, I have implemented the functions for adding and deleting budget. After testing some values, I need to add some more lines to check if the inputs are valid. Also I have to implement the functions for displaying percentage of budget spent. This is more difficult for me because I have to access 2 API endpoints to combine their data and show the results based on them, but there are some unknown errors that can't be fixed despite taking the whole day to figure out.

Week 9

It turns out that the problem I mentioned is related to the database. After it is fixed, now the website can display the percentage properly. The design of the page is also modified, and now the delete button for each budget is displayed at the top right corner of the budget. Also, I have to implement the notification function, so I created a pop-up interface for it, and it shows all the reminders set for future days. A reminder can be set in the account page.