Finance Tracker Schedule

Sprint 0 - Saturday 12/2

Sprint goal: Get the GitHub repository set up and ensure all teammates are able to access it

Saturday 12/2

Sprint planning (30 min)
Outcome:

We decided the roles for each sprint randomly—we knew we needed to make sure that every group member contributed equally, so we ended up splitting the ‘product owner’ and ‘scrum master roles’ between the two sprints.

For Sprint 1:
- Scrum Master: Matt
- Product Owner: Paul
- Developer: Emily
- Developer: Nicole

For Sprint 2:
- Scrum Master: Nicole
- Product Owner: Emily
- Developer: Paul
- Developer: Matt

We also created a GitHub repository so that we could collaborate with each other on the code.

The entire team helped create our product backlog seen below.

Product Backlog

Register Profile: As a user, I want to create an account and log into my profile so that I can manage my financial information securely.

Record Expenses: As a user, I want to record my daily, weekly, monthly, and yearly expenses to track and analyze my spending habits so that I can stay organized with my spending.

Track Budgets: As a user, I want to set up, customize, and track budgets for various categories, including income and expenses, so that I can effectively manage my finances.

Set Financial Goals: As a user, I want to set unique financial goals and milestones, such as saving for a study abroad trip or paying off student loans, so that I can track my progress and understand the amount needed to achieve these goals.

Progress Report: As a user, I want to download a detailed financial report that includes an analysis of my consumption of the Finance Tracker app's educational resources and highlights changes in my spending habits since the availability of these resources, so that I can learn from my spending habits.

Sprint 1 - Saturday 12/2-Monday 12/4

Goal: Create a webpage for the login features

Backlog:

Register Profile: As a user, I want to create an account and log into my profile so that I can manage my financial information securely.

DoD: Users can create a username and password in the sign up page, and can use those credentials to sign in. Username and password must match to sign in, and the user is redirected to the homepage only if successfully logged in.

Roles and Work Done:

Matt (scrum master): I made sure that the team was following the Scrum methodology, and was there to help remove any blockers that the developers had. I also scheduled the meetings for the daily scrum, sprint planning, and sprint review.

Paul (product owner): During the sprint, I reviewed the product backlog to make sure that the team understood each task and the value it had for the product.

Emily (developer): For this sprint, I was working as a developer, and I was tasked with creating the python/flask/sql-alchemy base, so that we had a standard for our models (User, Expense, Income) and a bare bones flask website set up, which, when I committed it, had only fake 'buttons' which didn't do anything. I also implemented the sql database using SQLAlchemy, which allows us to add and remove income/expenses easily.

Nicole (developer): As a developer, I was assigned the task of setting up the user sign-up and log in features using Emily's sql database, as well as setting up a home page, after signing in, with 2 buttons: track finances and record finances. I added my code to our shared github.

Saturday 12/2

Daily Scrum (10 min)
Outcome: No blockers, we discussed that everyone was able to access the GitHub repository. We also mentioned that the SQL database was set up. For the rest of the day we planned to continue working on getting the ReadMe file into the git repository with instructions on how to run the program.

Sunday 12/3

Daily Scrum (10 min)
Outcome: We discussed a small blocker that included a need for an update in the ReadMe file to include how to run our code on a windows computer. We also discussed what we had been working on that day, which included creating the basic home and sign in pages using python, flask, and sql foundation. Today's plan was to continue working on the functionality of the buttons to interact with the SQL databases.

Monday 12/4

Daily Scrum (10 min)
Sprint 1 Review + **Sprint 2 Planning** (20 min + 20 min = 40 min total)
Outcome:

We discussed a new blocker which included realizing that JUnit testing works only with Java, and we used a Python framework. We decided on using Unit Test instead, which is a similar testing framework that is compatible with Python. The developers would continue working on the record and track features.

For the Sprint Review we discussed what we have achieved in the sprint when looking over our Sprint Backlog, which was getting our home page and sign in features working with the buttons going to a new route when clicked on. We took a look at the sprint backlog item which was "Register Profile: As a user, I want to create an account and log into my profile so that I can manage my financial information securely", and the product owner was satisfied with our work as we were able to meet our DoD standard.

For Sprint 2 planning, we created and agreed on the sprint 2 backlog, which consists of recording expenses and tracking budgets.

Sprint 2 - Monday 12/4-Wednesday 12/6

Goal: Get the record and track budget working and passing a test case

Backlog:

Record Expenses: As a user, I want to record my daily, weekly, monthly, and yearly expenses to track and analyze my spending habits so that I can stay organized with my spending.

DoD: Users can enter monetary values in the Record page of either their expenses or incomes.

Track Budgets: As a user, I want to set up and customize budgets for various categories, including income and expenses, so that I can effectively manage my finances.

DoD: Users can view their expenses and income in the Track page.

Roles and Work Done:

Emily (product owner): During the sprint, I reviewed the product backlog and checked if anything needed to be rearranged based on the value it had for the team. I also made sure that the team understood each task and the value it had for the product.

Nicole (scrum master): I maintained the Scrum methodology and made sure that the team was available for the daily scrum, sprint planning, and sprint review. I was responsible for helping the process run smoothly

Paul (developer): In the second sprint, I added functionality to the webpage for users to track income and expenses. I created a “record” page where users can input expenses and income with fields for the expense's name, dollar amount, and date. I also created a page called “track” where users can view previously added expenses and income and also view the total sum of their income and expenses.

Matthew (developer): For the second sprint, I was tasked with making sure all of our code and the project was in good working order. I also cleaned up the pages using CSS in order to give the entire project a more complete look and feel. This tied everything together and made everyone’s part feel like part of a whole.

Tuesday 12/5

Daily Scrum (10 min)
Outcome: No blockers were brought up, so we went right into discussing the progress we made. Track and Record functionality was added which meant the developers would just be working on making the page look more organized.

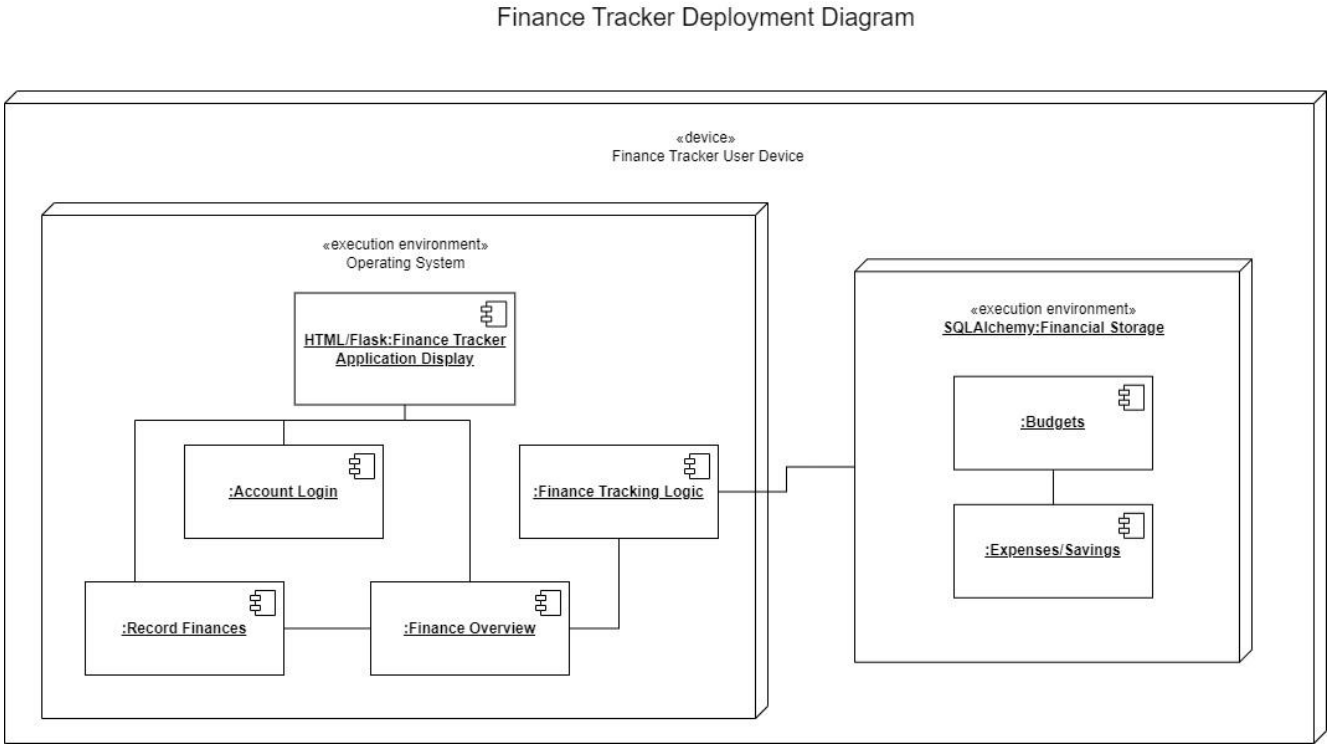
Wednesday 12/6

Daily Scrum (10 min)

Outcome: No blockers were brought up again, and the status on the organized web page was done. The status of testing our final product's functionality was completed as well, with a unit test implemented.

Sprint 2 Review (20 min)
Outcome: We reviewed the sprint 2 backlog items, and ran the code to show that each of the DoDs were completed. Both the tracking and recording features were approved by the Product owner.

Deployment Diagram:



While we had previously created a Deployment Diagram for our Finance Tracker, that model was aimed towards what the deployment might look like in a large-scale setting. This diagram more closely represents how our project is deployed currently with all data being stored locally and a main page that uses Flask to provide an interface for users to track and record their finances.