



Sprint 2 Retrospective

Team 7: Haris Sohail, Mayur Patil, Jack Crawford, Jacob Riggs

What went well?

Our team excelled this sprint at finding effective and efficient ways to produce working code for each user story. We found that the way we set up our database and frontend in Sprint 1 made it easier to quickly produce code for different features, allowing for more unique functionalities than we previously had.

1. As a user, I would like to be able to change my email

Task	Estimated Time	Owner
Research how to implement nodemailer	2 hrs	Jacob
Create the frontend functionality for changing email	2 hrs	Jacob
Create the backend functionality for changing email	2 hrs	Jacob
Create unit test cases for changing email functionality	1 hr	Jacob

Completed: We successfully implemented the change email feature, so the user is able to change their email and will be able to log in with their new email. This feature can be found under “Edit BudgetWise Profile” within the Settings page.

2. As a user, I would like to be able to create a budget for next month.

Task	Estimated Time	Owner
Create a button on the dashboard which automatically creates the next month budget with previous preferences	2 hrs	Mayur
Implement the backend for the next month budget functionality	2 hrs	Mayur
Create unit test cases for the next month budget functionality	1 hr	Mayur

Completed: We implemented a feature that allows instant budget creation for the following month, assigning a designated allowance and automatically inputting a budget name and start and end dates.

3. As a user, I would like to be able to plan savings for retirement.

Task	Estimated Time	Owner
Implement predefined category called 'Retirement' that exists when user is registered	1 hr	Jacob
Implement in the front end the ability for the user to find their retirement funds	3 hrs	Jacob
Reformat the database to include features for retirement	1 hr	Jacob
Create unit test cases for the retirement budget	1 hr	Jacob

Completed: We created a new page which displays various analytics for retirement savings, including total saved in the last month, percentage of retirement goal reached, and amount to goal, among others.

4. As a user, I would like to be able to share my monthly savings on Facebook

Task	Estimated Time	Owner
Research Facebook Documentation for share to Facebook button	3 hrs	Jacob
Implement the frontend for the button, and the sharing of the savings information	2 hrs	Haris
Implement the backend for the button	2 hrs	Jacob
Implement unit test cases for the ability to send notifications	1 hr	Haris

Completed: Our facebook sharing button is complete and functional as it utilizes the facebook sharing API to share a specific link to budgets page of a user.

5. As a user, I would like to be able to share my monthly savings on Twitter

Task	Estimated Time	Owner
Review Twitter Documentation for share to Twitter button	3 hrs	Haris
Implement the frontend for the button	2 hrs	Haris
Implement the backend for the button	2 hrs	Haris
Implement unit test cases for this button, and the ability to successfully share the information of twitter	1 hr	Haris

Completed:

Our twitter sharing button is complete and functional as it utilizes the twitter sharing API to share a specific link to budgets page of a user.

6. As a user, I would like to be able to monitor my kids' spending.

Task	Estimated Time	Owner
Implement UI page to allow user to add parental account	3 hrs	Haris
Implement backend login via parental account	2 hrs	Mayur
Allow parent account to see all spending and change any details within child account	3 hrs	Mayur
Implement unit tests to test whether parental accounts work as described	1 hr	Haris

Completed: We successfully implemented this feature as the user is able to add a parental account to their account. And the parental account is then able to log in to the kids account and view spending and change any details within the child account.

7. **As a user, I would like to enable notifications for my daily, biweekly, and monthly spending trends**

Task	Estimated Time	Owner
Create a field in settings page to choose increment of notifications	2 Hours	Mayur
Implement backend for notifications	2 Hours	Mayur
Format graphs for trends to send to user	2 Hours	Mayur
Create unit test cases for the functionality of the notifications and graphs	1 Hour	Jack

Completed: This feature was correctly implemented with our project as the user is able to send

8. **As a user, I would like to enable notifications for spending in specific categories**

Task	Estimated Time	Owner
Create a button in Category Analytics for notifications for each category	2 Hours	Mayur
Change the color of the button from green/red depending on notification setting	1 Hour	Mayur
Add notification to categories in database	1 Hour	Mayur
Implement email functionality of notification	4 hr	Haris
Create unit test cases to test whether notifications get sent properly for the proper category	1 hr	Haris

Completed: Our email notifications were updated to include spending information for each category in a budget.

9. As a user, I would like to be able to change my currency of choice

Task	Estimated Time	Owner
Add field in database to store user's preference of currency	1 hr	Jacob
Research an API that allows currency conversions	3 hrs	Jack
Implement the API on the backend and successfully receive data back	4 hrs	Jack
Replace pre-existing values with values in the new currency	2 hrs	Jack
Create unit test cases for the currency feature	1 hr	Jack

Completed:

There is now a change currency functionality within the Budgetwise application. If the user goes to the settings page, they will find this feature under "Edit BudgetWise Profile". We used an API called Fixer.io to achieve this. By default the currency is EUR, but the user can also choose USD, AUD, CAD, or INR as their currency of choice.

10. As a user, I would like to be able to make a budget for Christmas/Birthdays

Task	Estimated Time	Owner
Modify database for special budgets	1 hr	Jacob
Create special graph to compare spending on different individuals	5 hrs	Jack
Add Christmas theme to UI	3 hrs	Jack
Create unit test cases for functionality of special budgets	1 hr	Jack

Completed: We created a special budget feature which allows users to create budgets and assign individuals to that budget. This was aimed toward Christmas shopping, so that users could assign a total to the amount they want to spend on Christmas gifts and have the app equally divide that allowance between each person receiving gifts (the individuals of the budget).

What did not go well?

Although we were able to complete all of our user stories this sprint, we did have some difficulty during the sprint due to a lack of clear planning prior to the beginning of the sprint.

For one, we found that parental accounts would not initially work as we had imagined, or at least our implementation of them. This made it difficult to begin coding for this user story, but in the end we found a way to achieve the same results with a different style of implementation.

In addition, we did not very clearly define what we originally wanted our category notifications to be, and found that we had to do some of our specification of what they would look like after the sprint had already begun.

How should you improve?

We should improve how we divide up the tasks given to each person for the sprint as we ran into the problem of having some people more versed in how to implement certain aspects and features of the project, so it would be much more efficient for them to complete the parts of the project that they already know how to implement, instead of giving these parts to the people that haven't learned how to implement them yet.

Overall, we would also like to more effectively manage our time, as the bulk of our work ended up being during and immediately after spring break. We hope that having clear definitions of our user story tasks will allow us to do this well.