



Team 7 - Product Backlog

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Problem Statement:

Day-to-day expense tracking can be difficult, but learning to budget is a valuable skill. One of the easiest ways for one to adjust their spending habits is by gathering information on what products and services they spend the most money on and determining how to reduce the amount spent among different areas of expense. Our product will provide a way for users to do just that. With it, they may digitally track their expenses and decide which areas of expense they are most willing to reduce cost in. Our product will then provide suggested levels of spending based on user preferences and available spending money.

Background Information:

Target Users:

First-time budgeters, college students, and other parties interested in managing and/or reducing spending habits.

Similar Existing Applications:

There are many existing monthly expense calculators that exist including Mint and Everydollar. Mint is useful for keeping track of everything financial related including giving credit score notifications. Everydollar gives users the ability to enter their monthly income and enter data for specific items and set goals for budgeting.

Limitations:

These similar applications specialize in keeping track of expenses and setting goals for reducing money spent, but they don't provide specifically tailored suggestions for limiting spending amounts on certain items as well as visual graphs that show trends for spending on specific items.

Our users will be able to be given visual representations on trends for specific categories as well as be presented with goals to reduce spending on their monthly expenses.

Functional Requirements:

1. As a user, I would like to be able to register an account
2. As a user, I would like to be able to login to my account with a selected username and password
3. As a user, I would like to be able to reset my password
4. As a user, I would like to be able to change my email
5. As a user, I would like to be able to manually enter purchases
6. As a user, I would like to be able to create new spending categories
7. As a user, I would like to be able to categorize my purchases
8. As a user, I would like to be able to enter recurring spending amounts
9. As a user, I would like to enable notifications for my daily, biweekly, and monthly spending trends
10. As a user, I would like to enable notifications for spending on specific items
11. As a user, I would like to enable notifications for spending in specific categories
12. As a user, I would like to be able to view graphs that show my daily, biweekly, and monthly spending.
13. As a user, I would like to be able to view graphs that show my spending for specific categories.
14. As a user, I would like to be able to receive spending suggestions
15. As a user, I would like to be able to track what day of the week I buy certain items
16. As a user, I would like to be able to create a budget for next month
17. As a user, I would like to be able to plan savings for retirement
18. As a user, I would like to be able to share my budget with other users
19. As a user, I would like to be able to set reminders for buying certain items at specific times

20. As a user, I would like to be able to set reviews for bought items for future reference
21. As a user, I would like to be able to compare spending on different types of a certain item (i.e. different brands of coffee, separate items of clothing)
22. As a user, I would like to be able to change the theme of the application to my liking
23. As a user, I would like to be able to enable notifications on Google Chrome
24. As a user, I would like to be able to change my currency of choice
25. As a user, I would like to be able to change the language of the application to a select few languages
26. As a user, I would like to be able to change the color of different spending categories to my choosing
27. As a user, I would like to be able to share my monthly savings on Facebook
28. As a user, I would like to be able to share my monthly savings on Twitter
29. As a user, I would like to be able to plan budgets for months in the future
30. As a parent, I would like to be able to create a budget for my kids and share it with them
31. As a parent, I would like to be able to modify my kids' budget to reward/punish them
32. As a parent, I would like to be able to monitor my kids' spending
33. As a parent, I would like to be able to send messages through the application to my kids
34. As a parent, I would like to be able to have an interface for the budget of my entire family
35. As a parent, I would like to be able to make a budget for a trip/vacation
36. As a parent, I would like to be able to make a budget for Christmas/Birthdays

Non-Functional Requirements:

Architecture:

This web application will feature a separate front-end and back-end. The front end will be written in Angular and will send requests to pull from the back-end to create it's visual graphs and notifications for the end user. The back-end will use Node.js with a MySQL database that will be able to hold user data for 10,000

users. The queries that the user will be able to make from the application will take approximately 400 ms to receive a response.

Security:

Security for both the privacy of our end users as well as the performance of our application is a high concern and there will be many security precautions in place to protect BudgetWise. The users will be able to securely login to their accounts with login API implemented onto our application. Our application will also prevent vulnerabilities to corrupting our database through covering exploits including SQL injections.

Usability:

The interface for BudgetWise will provide the end-user a very intuitive way to enter new inputs into their expense calculator as well as easily be able to view graphs that correspond to their spending habits. Budgeting will be straightforward and easily adjustable.