

BillPaid

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Description

BillPaid is a bill tracking application that provides the user with multiple ways of viewing their planned expenses.

Our group chose this project because we all felt a connection with its core features-it'll be a central place to keep track of all bills. No longer will a bill be missed because it was at the bottom of a stack of paper or lost somewhere in the junk mail inbox. If you remember to put the bill into the bill tracker, you remember to pay it.



Features

- User account registry and login to securely save your information.
- Create, Read, Update, and Delete bill information.
- The Dashboard page presents a table containing bill names, types, due dates, and monetary values. There is also a pie chart showing the price contribution of each bill type.



Planning - User Stories

- I am a visual user that wants to see an overview of my expenses via a chart/graph.
- I am a very organized person who would like to categorize my individual expenses in one location rather than looking at different locations to track my bills.



Planning - Database

We used SQL along with MySQL Workbench. There are User and Bill model classes and tables. The user table has a many-to-one relationship with the bill table. The bill table has a one-to-many relationship with the user table.



Technology Stack

- Java
- Spring Boot
- ThymeLeaf
- SQL
- Materialize
- Google Charts API



Demo



Bill Tracker

Login

E-mail

user@email.com

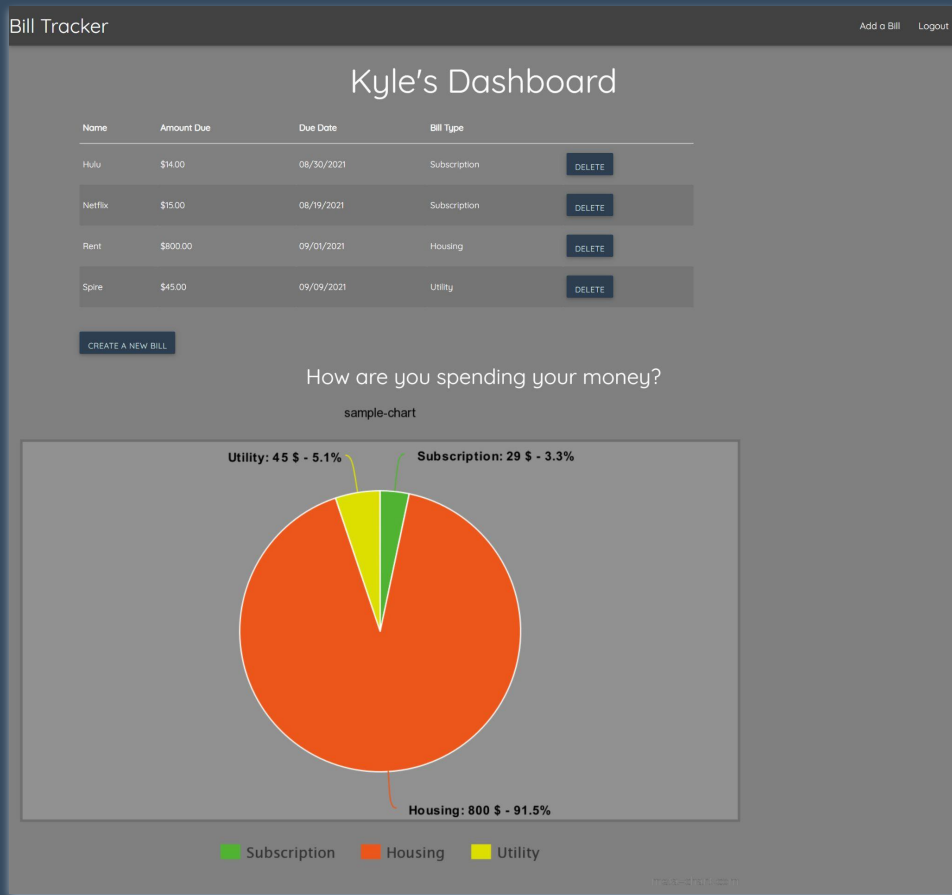
Password

LOGIN

Don't have an account? [Register for one!](#)

Users are first directed to a login page for authentication or to create a new account.





After logging in, users can view their bill dashboard which includes the ability to sort bills by due date.

From this dashboard, users can delete bills.

Users can also view a pie chart that shows expenses by bill type.



Bill Tracker

DashboardLogout

Add a New Bill

Bill Name:

Amount:

Due Date:

mm/dd/yyyy

Bill Type:

ADD

Users can add a new bill. When returning to dashboard, users will see the new bill listed in the table and chart updated.



What We Learned

- How to process JSON data
- How to connect to the Google Charts API
- How to sort and display user data for multiple users



What's Next

- Auto generated bill reminder emails
- Convert Database to NoSQL MongoDB

