QBudge

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The Problem

Student Life

- Majority of students struggle to manage their expenses.
- Steep learning curve to personal finance
- Can we help students organize their budgets
 and plan their finances?



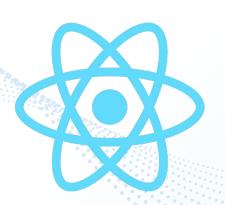
Our Solution

QBudge Web App

- App takes in:
 - Chequing and Savings Principle Amounts
 - Income
 - Expenses
- Algorithm determines optimal account values.
- Creates visualizations of algorithm outputs

Code Structure

- UI
 - ReactJs (jsx)
- API
 - Flask (python)
- Database
 - MongoDB (nosql)







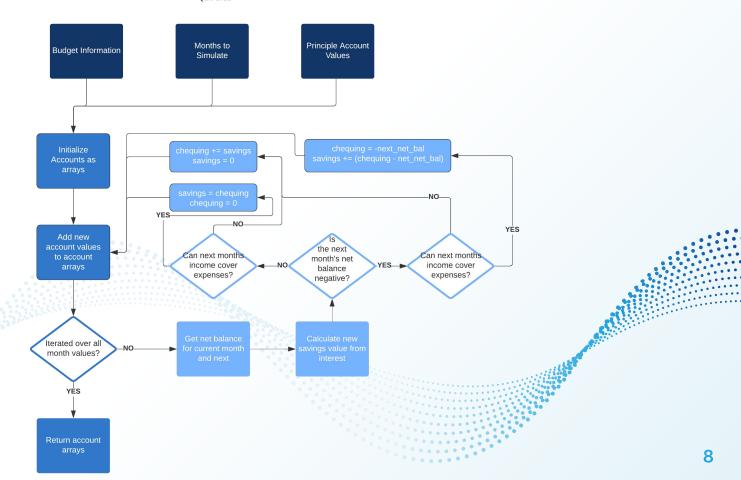


What Does it Do?

- Uses the provided budget to manage different account
- Will tell user when to move money into savings or chequing
 - Optimizes income from interest to maximize budget (using MinMax)
- Able to recommend when to open a GIC

Account Management Algorithm

QEC 2021



Demo

http://qbudge.duckdns.org:8080/

Next Steps

Data Fields

Collect more data from users to improve our algorithm and analysis

Login and Account

Create accounts for users to save their data and budgets

User Preferences

Allow users to set their preferences, i.e how aggressively they'd like to save or invest

Scraping Bank Data

Using web scraping (with security permissions) to scrape credit and debit transactions from bank sites for further analysis

User Statistics

Creating a dashboard where the user can see their spending habits and tips on how to save their money

TFSA & RRSP

Incorporate TFSA and RRSP contributions into algorithm calculations

Questions