

# Grocery Spending Tracker

by JARS

## Features

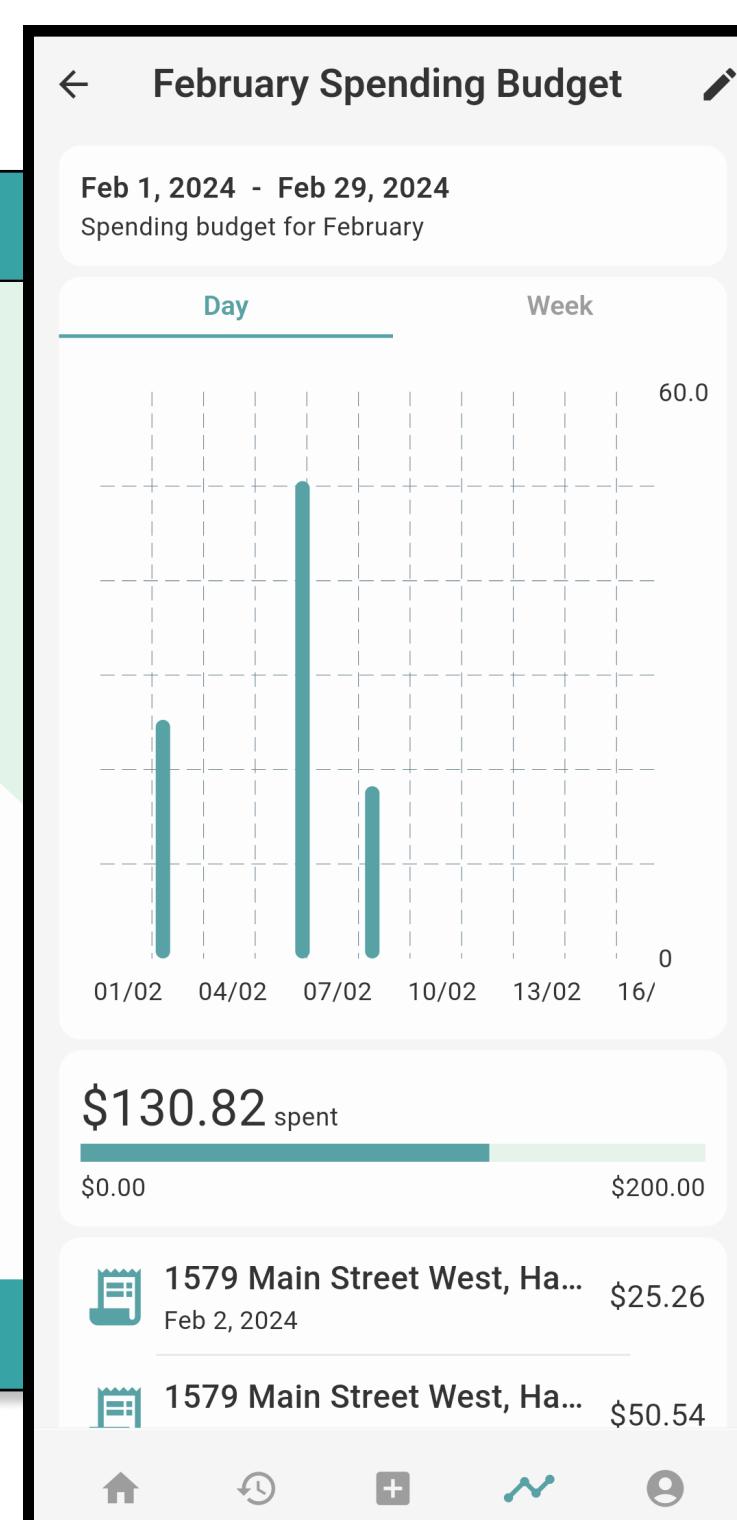
### Receipt Capture

Simply take or upload a picture of a receipt and let our optical character recognition handle the parsing and extraction of data.



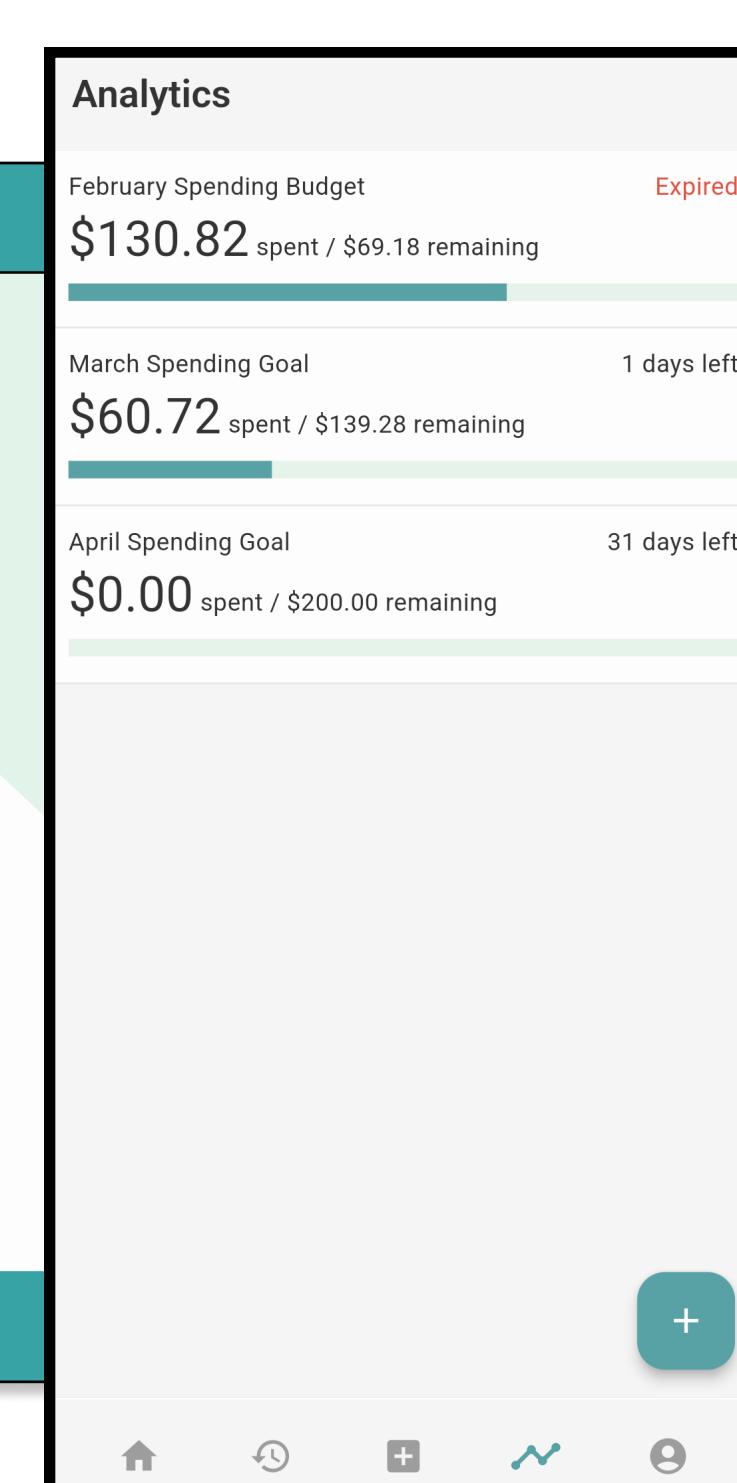
### Purchase Analytics

View graphs created with your purchase history to track your spending over time.



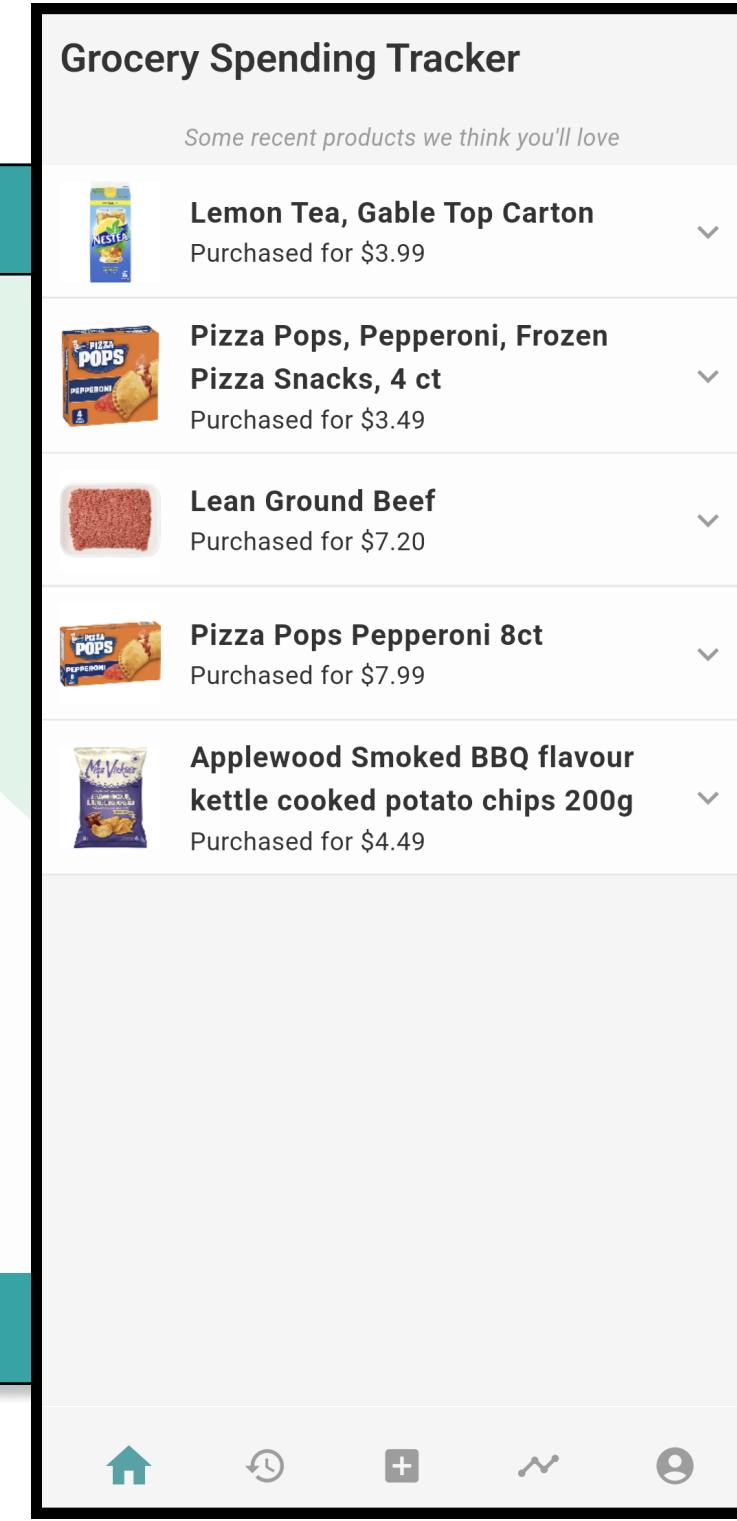
### Goals

Set spending goals to help you stay within budget for your groceries.



### Recommendations

Get alternative product recommendations based on your purchase history and purchases made by other users.



## Project Motivation

This project was created to help lower income households deal with rising cost-of-living in terms of food inflation, and provide more transparency on predatory pricing strategies grocery stores employ.



## Project Objectives

- Allow users to track grocery spending via photos of receipts
- Track and analyze personal spending trends
- Utilize receipts from other users to recommend cheaper alternatives based on the user's purchase history

## The Team

Jason Nam  
DEVELOPER



Ryan Yeh  
DEVELOPER



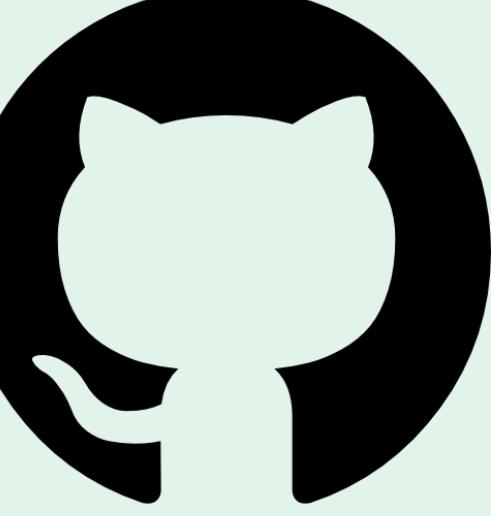
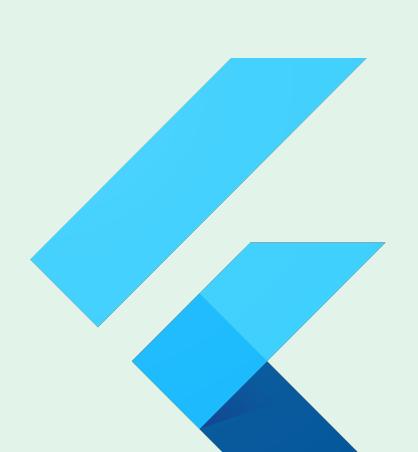
Allan Fang  
DEVELOPER



Sawyer Tang  
DEVELOPER

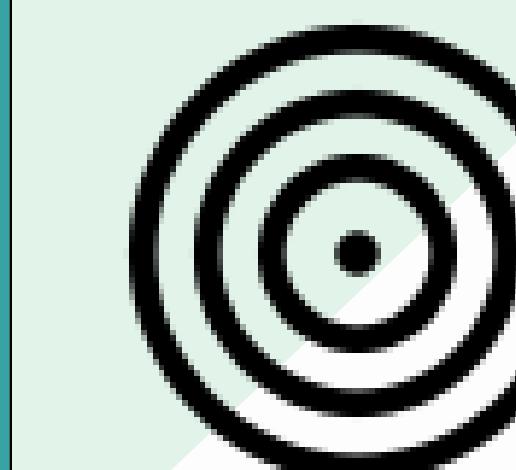


## Tech Stack



## Accomplishments

### Capture Accuracy



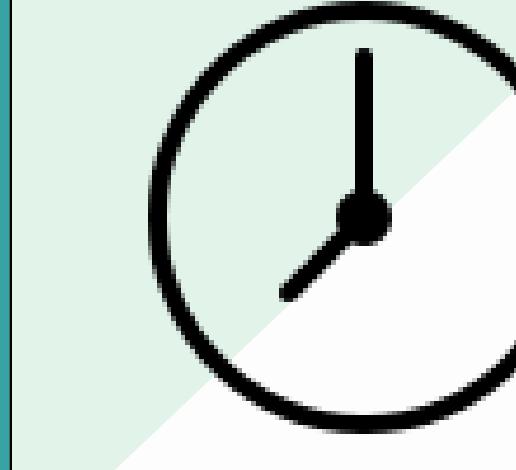
The application is very robust and has achieved a 96% accuracy based on 40 receipts used during testing in different environments.

### Dynamic Classification



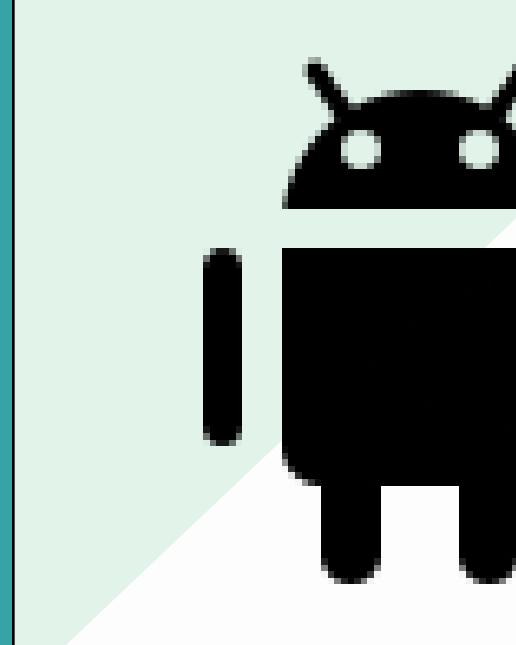
Based on the limited product info on the receipt, the app can find the full product data for new and existing products in our database through approximate string matching and web scraping.

### Ease of Use



During usability tests with 10 McMaster students, we found that new users are able to get a handle of the application's core functions within 15 minutes.

### Availability



This application is currently compatible with all Android devices with iOS support planned.