



Receipt\$ave

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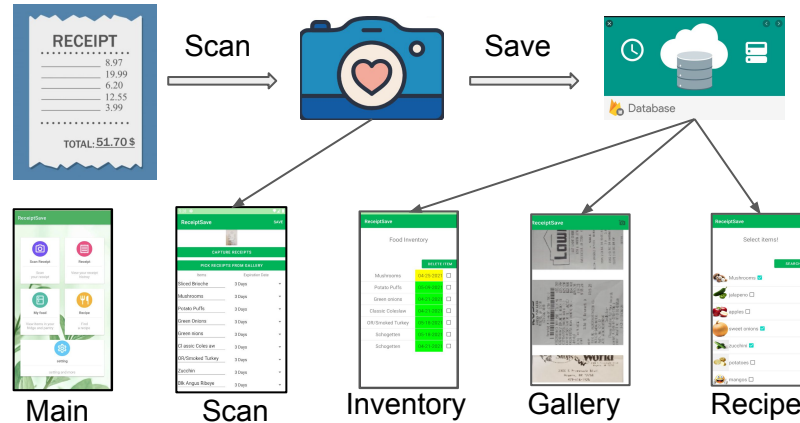


Introduction

For our Cpastone project, we decided to make an app called Receipt\$ave. Receipt\$save is an application that allows users to store all of their grocery receipts in one place. It is a convenient way to track all of the groceries you have at any given moment. Receipt\$ave also has a feature where you can select any items you currently have and does a Google search for recipes including those specific items.

Objectives

The objective is being able to have all your receipts in one place. This will allow you to keep track of your groceries and be able to use them before their expiry dates. The app allows you to scan receipts and assign expiry dates to the items. You can use the app to search for recipes that are in line with the present groceries and you will be able to see also past scanned receipts from the app itself.



Design

The main menu page of Receipt\$ave implemented GridLayout and CardView to make the entire user-interface more clear, balanced, simple and stylish with good usability. The main menu shows all the features on the application: The first feature is the Scan Receipt. Users can either take a picture or select a picture from the photo gallery to scan receipts; The second feature is called Receipt. It shows users the list of all the receipts they have; The My food feature is designed to show users all the grocery items; The Recipe feature is a convenient feature for users to find recipes; Finally, the Setting feature is where users can find the expiration date notification settings on the app.

Key Technology

Optical Character Recognition (OCR) is the conversion of images of printed letters into editable text forms. We implemented it using Google ML Kit's text recognition APIs in this project. Receipt\$ave allows users to capture images of printed receipts on mobile phones and recognizes text from the images. **Realtime Database** is a cloud-hosted database system and supports data synchronization. The collected information and images of the receipt are stored and managed in the real-time database.

Conclusion

The goal of Receipt\$ave is to make a user educated decision on what they will buy. This will solve the one few problem for the user. One problem is that user can save money. User will know what will expire in the future and how much quantity they have at home. It is the digital frize at home. It will save time and money for the user. Also it serves the environment propose that we do have to away.