Contents

GitHub Username: jinyoon0124

My Fridge

Description

Have you ever forgotten what you have in your fridge and let food goes bad? Do you often buy groceries again forgetting that you already have those? My Fridge offers integrated solution for your fridge. From grocery shopping list to recipes, users can fully track what they buy, what they have in their fridge, and find out what they can cook using what is in their fridge.

Intended User

Home makers or people who live alone having problem managing their fridge.

Features

- Saves list of items that are in the fridge and grocery shopping list
- When an item on grocery shopping list is checked off, it is moved to fridge list

- Retrieve recipe information from API based on items on fridge list
- Notification before food in fridge go bad
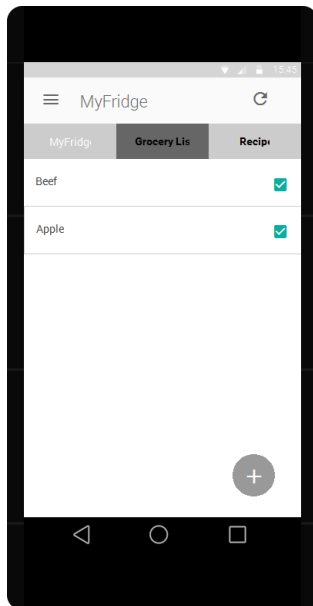- Widgets showing Grocery List

User Interface Mocks

Screen 1
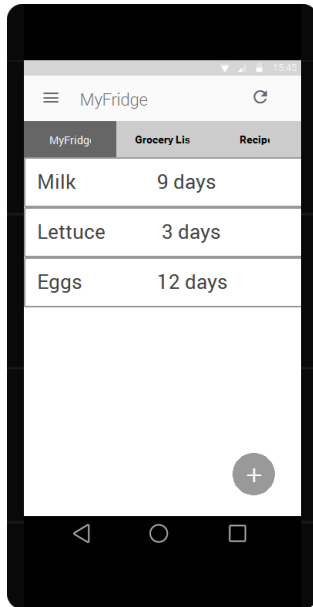
My Fridge tab shows what is left in user's fridge. User can swipe to remove item from the list. Items are automatically added if such item in Grocery List is bought (checked). Expiration period shown in the list represents how long the food has left before it goes bad. Currently, users have to input this period manually when checking off item from Grocery List tab. When fab is clicked, it shows an option to modify the expiration period or add items directly.

## Screen 2

Grocery List shows what users need to buy during grocery shopping. When an item is shopped, users can check the box and the item is automatically moved to My Fridge page. When check box is clicked, users are asked to fill expiration period. Fab is used to add items to the list.

Screen 3
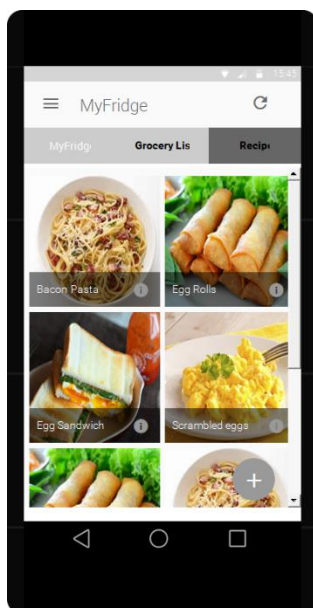
In Recipe tab, all recipes that can be made using ingredients in user's fridge are shown.

Screen 4
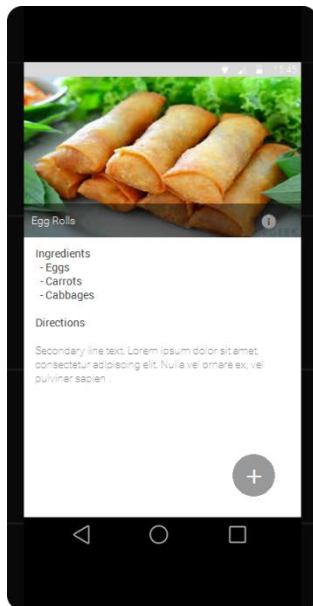
When a recipe is clicked, it shows details.

Key Considerations

How will your app handle data persistence?
Content Provider to deal with saved ingredient information. Recipe data will be connected directly via API and AsyncTask (Retrofit).

Describe any corner cases in the UX.
There is no corner case discovered yet.

Describe any libraries you'll be using and share your reasoning for including them.
Picasso will be used for Recipe tab to ease image fit. Retrofit will be used to fetch recipe information from an API.

Describe how you will implement Google Play Services.
AdMob will be added for free version of the app. GCM will be used to push notification.

Next Steps: Required Tasks

Task 1: Project Setup
- Configure libraries – Retrofit, Picasso, Google Play Services

Task 2: Implement UI for Each Activity and Fragment
- Build UI for MainActivity
    - ✓ Create layout including tab bar
    - ✓ Create fragments for MyFridge/ Grocery List/ Recipe

- ✓ Add alert box to set expiration period when moving item from Grocery list to My Fridge
- ✓ Make sure to use Picasso Library for Recipe fragment
- Build UI for Recipe detail activity
  - ✓ Use Collapsing layout
- Build UI for all FAB activities

Task 3: Implement Retrofit
- Create POJO for Retrofit
- Connect to recipe API

Task 4: Implement Google Play Services
- Add notification using GCM
- Implement Admob

Task 5: Implement Widget
- Create widget layout
- Implement widgets

Task 6: Add Product Flavor
- Add fake ad inventory on MainActivity for Free version

Task 7: Handle Error Cases