iOS Development - Assignment 3
App: *Shopping List 3000*

Group name: What's our group name?
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Problem

- Lack of a simple real-time list that can be SHARED EASILY
- Busy lifestyle (no time to explore an app), event harder to teach non-tech savvy user such as elderly. As such it is hard to coordinate and plan grocery.

Target Audience

- Everyone

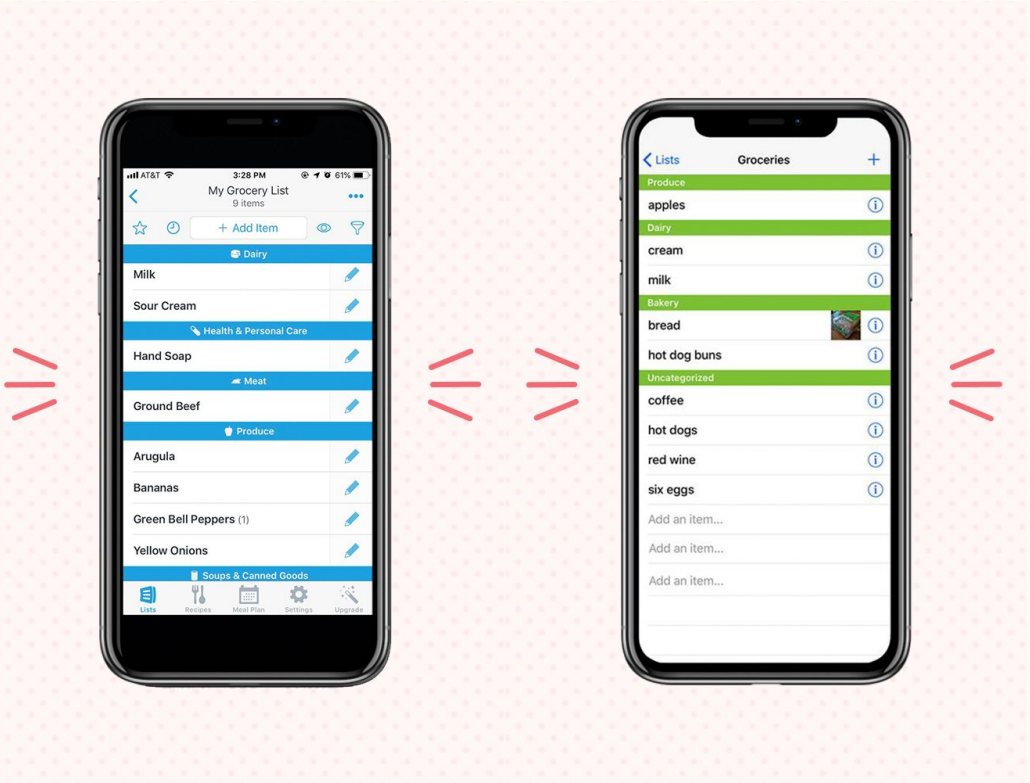
Business Model

- Freemuim
  - **Feature-led Freemium** (limited functionality)
  - Free user, able to create only ONE list and share up to two users.
  - Paid user, unlimited list creation and unlimited share to other user
- User friendly interface (easy to even non-tech savvy user)

Competitors

- “AnyList”

  Requires user login



- “Our Groceries”

  Shared list is not real-time

Demo

Frameworks Used

- **Google Firebase:**
  - Used for user authentication
    - Email and Password login methods used
- **Google Firestore:**
  - Used for data storage
  - **Firestore Data Model**

    Our Firestore project contains two subcollections, `users` and `lists`.
    Each `user` document is identified by their email used to sign up with Firebase Authentication and has the following fields:

    - `firstName` : String
    - `lastName` : String
    - `lists` : Array of Strings (Unique code of all lists generated by the user)

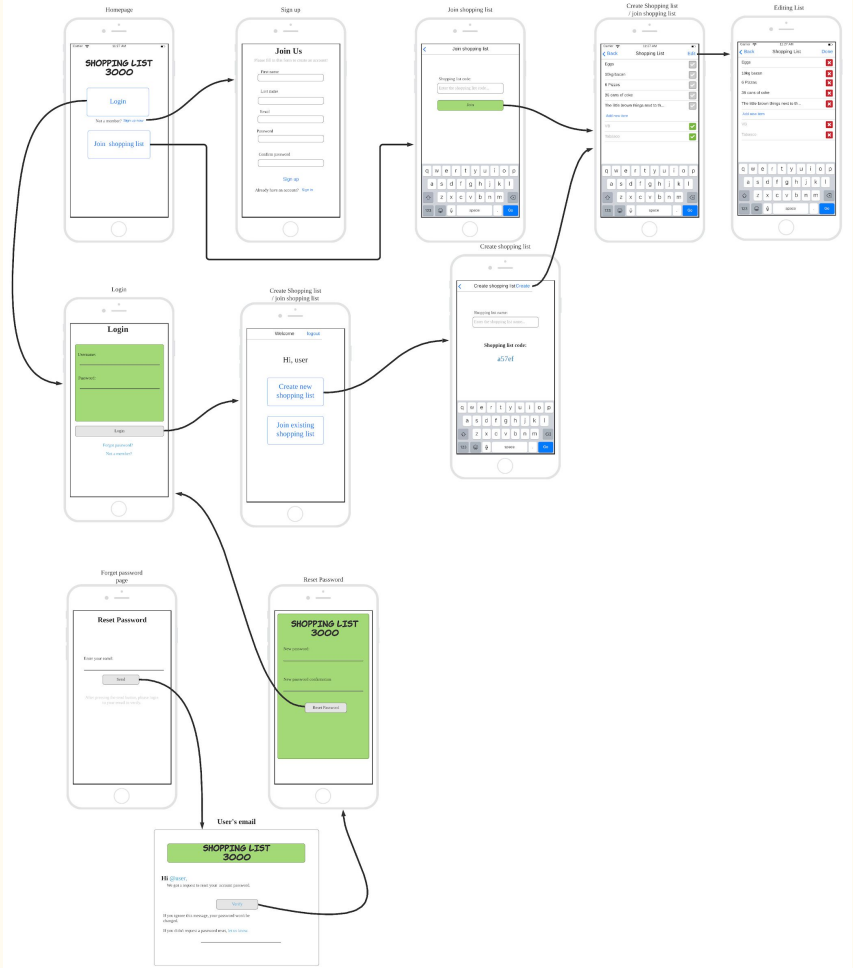
    Each `list` document is identified by the unique alphanumeric code generated and has two fields:

    - `listName` : String
    - `items` : Subcollection of a custom object with the following fields:
      - `completed` : Bool (Indicates whether object is bought)
      - `title` : String (Name of object)

Design and Development Process

Assignment 3 - Wireframe

Vong Beng, Wen Loong Heng, Lucky Lau | May 29, 2020



Challenges

- Designed view controllers separately
  - Resulting in **merge conflicts** and **dependencies issues**
    - Especially with **storyboard** and **Pod files**
    - Working remotely made it more difficult to resolve