Description
Intended User
Features
User Interface Mocks
    Screen 1
    Screen 2
    Screen 3
    Screen 4
    Screen 5
    Screen 6
    Widget
Key Considerations
        How will your app handle data persistence?
        Describe any corner cases in the UX.
        Describe any libraries you'll be using and share your reasoning for including them.
        Describe how you will implement Google Play Services.
Next Steps: Required Tasks
    Task 1: Project Setup
    Task 2: Add firebase authentication module
    Task 3: Configure firebase realtime database
    Task 4: Develop app UI and Flow
    Task 5: Add Firebase Cloud Message
    Task 6: Tests and fixes

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# MyLady Bucks

## Description

**App Description:**
Imagine how good it would be if you could ask for your coffee, without lines or wasting your time waiting for it to be ready.
Imagine no more, here in MyLady Bucks you can do this with your fingertip, select your favorite drink from our HUGE variety, review your order and order your coffee.
You will be notified when the order is ready to-go, just stop by our caffe, pay using one of our payment methods and grab your coffee.

**Business Description:**
If you own a coffee shop and want to have a easier and modern way for your clients to order, you can try our solution.
Easy to use and intuitive, you can save time and waste by knowing customers demands fastest.
Also another way to share your business accomplishments, promotions and etc, there's an entire section dedicated to that in our solution, this is a easy way to communicate with your customers and potential ones.

**Disclaimer:**
This is a "fake b2b" solution and MyLady Bucks is a fake coffee shop.
Solution has a small server side app to simulate the coffee shop behavior in this app scenario.
The server side app will not be described here since it's only to simulate receiving orders, change order status, this will all be done by Firebase Cloud Messaging.

## Intended User

People that work, study, live nearby the MyLady Bucks coffee shop and needs a easy way to order a coffee saving time, and sometimes money due to apps announcements about discounts/promotions.

## Features

List the main features of your app. For example:

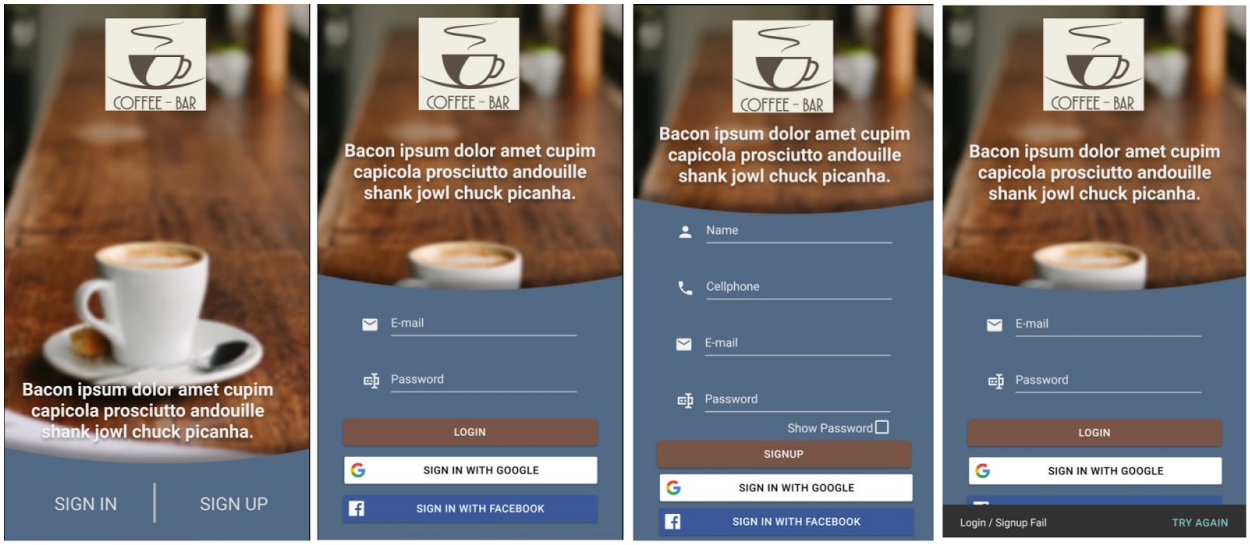
- **Order coffee**

- Share the coffee shop promotions and news
- List of previous orders

## User Interface Mocks

You can checkout a live mock of the UI here.

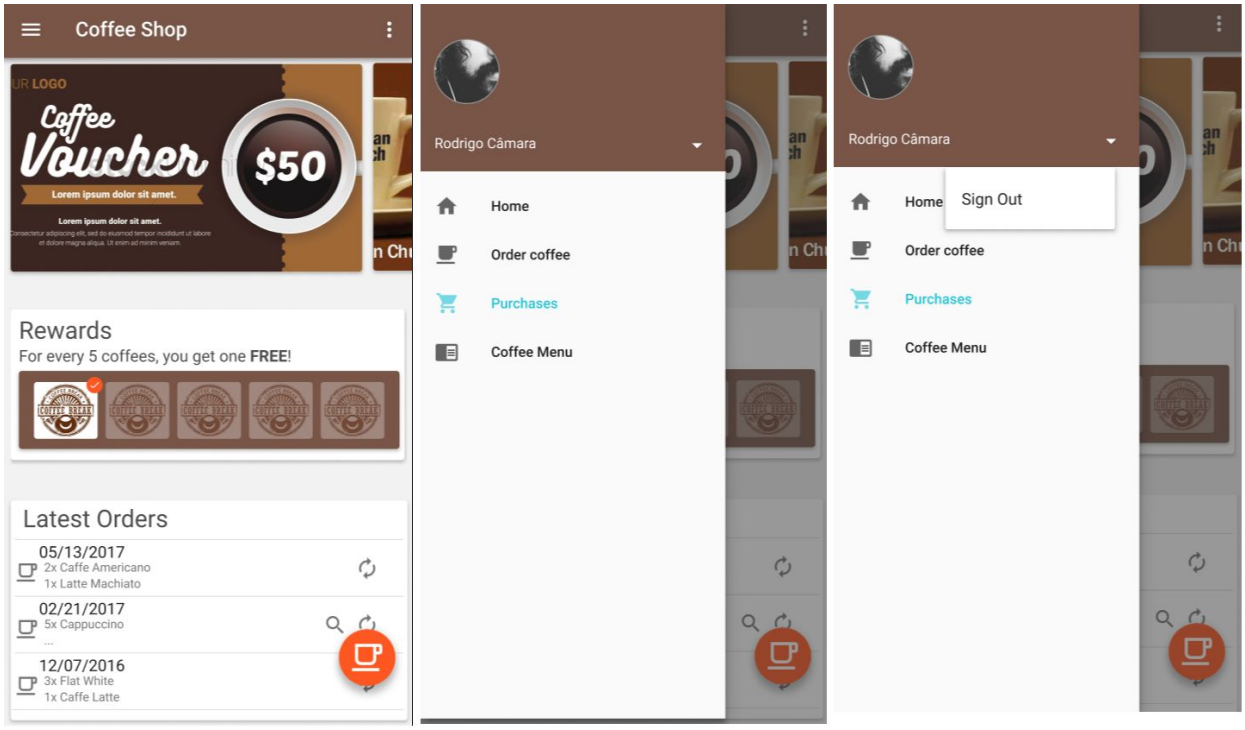
## Screen 1 - Login/Sign-up



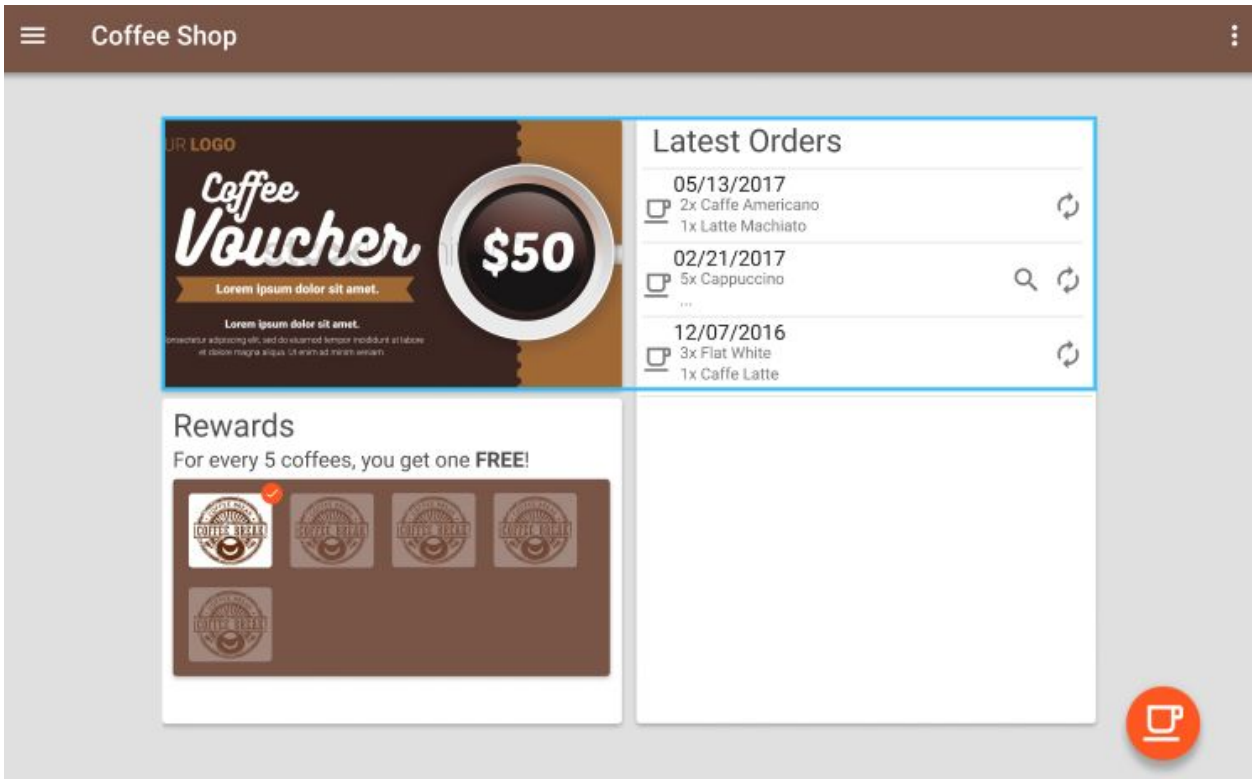

Here the user will be able to:

- Login using Google/Facebook to have access to the app.
- Sign up using email providing a few other infos.

## Screen 2 - MainActivity




Tablet:

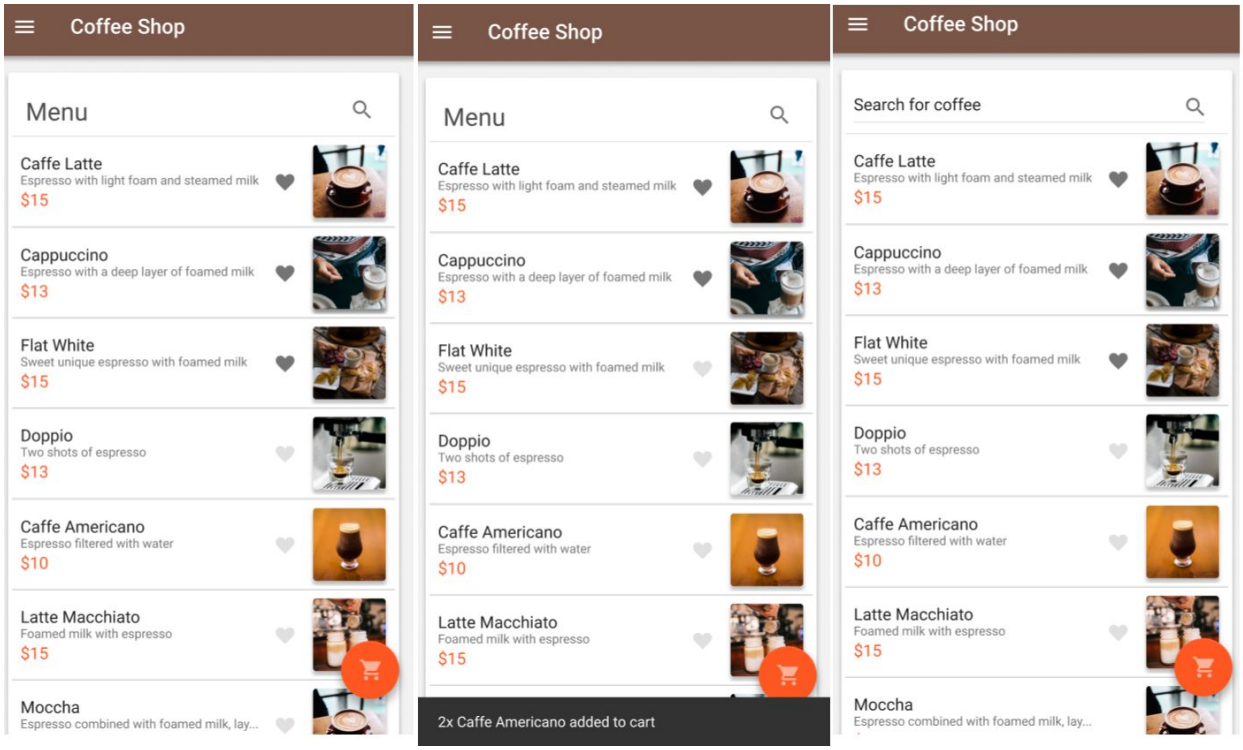



Here the user will be able to:

- View the latest announcements from MyLady Bucks.

- Check his rewards program.
- View his latest orders and repeat it without having to go through the process again.
- Begin Order coffee process.
- View Coffee shop menu.
- Sign Out from profile.

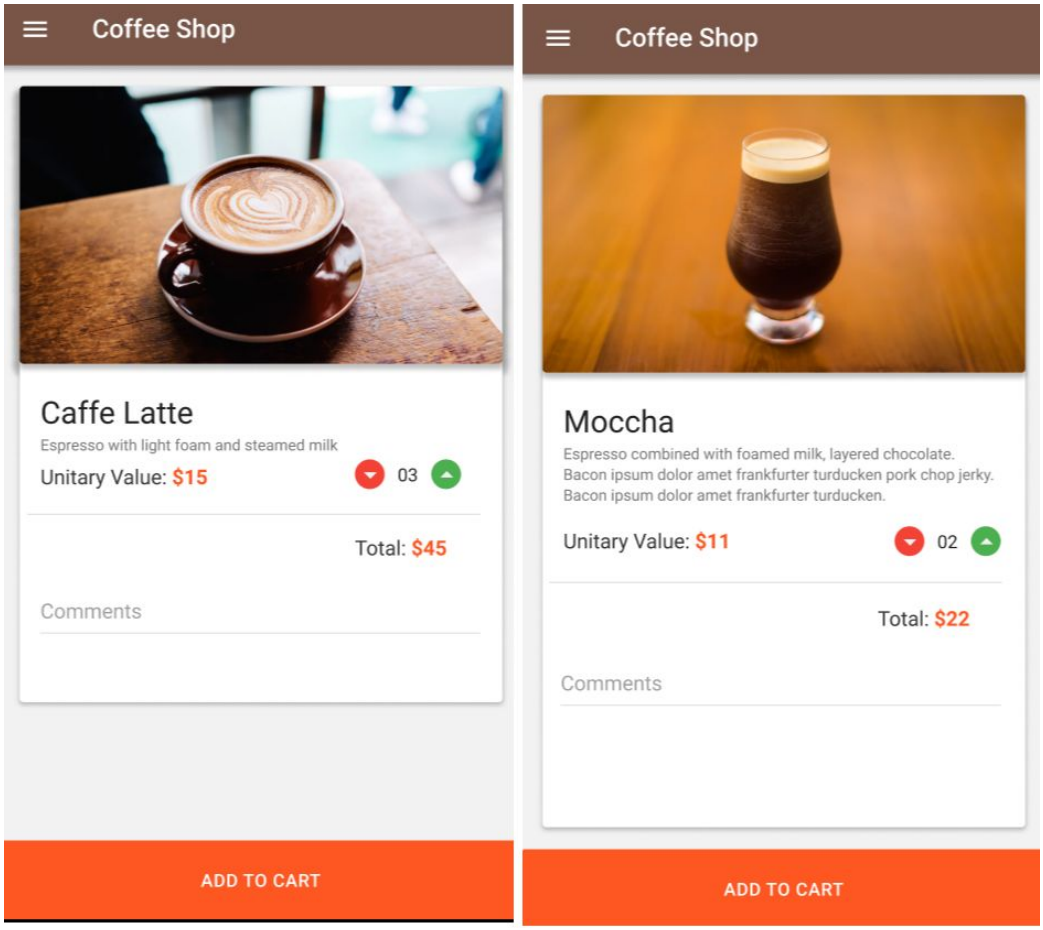
## Screen 3 - Menu Activity




Here the user will be able to:

- View the coffee menu ordered by favorites.
- Favorite/Unfavorite coffee.
- Search for coffee by name.
- Go to Cart.

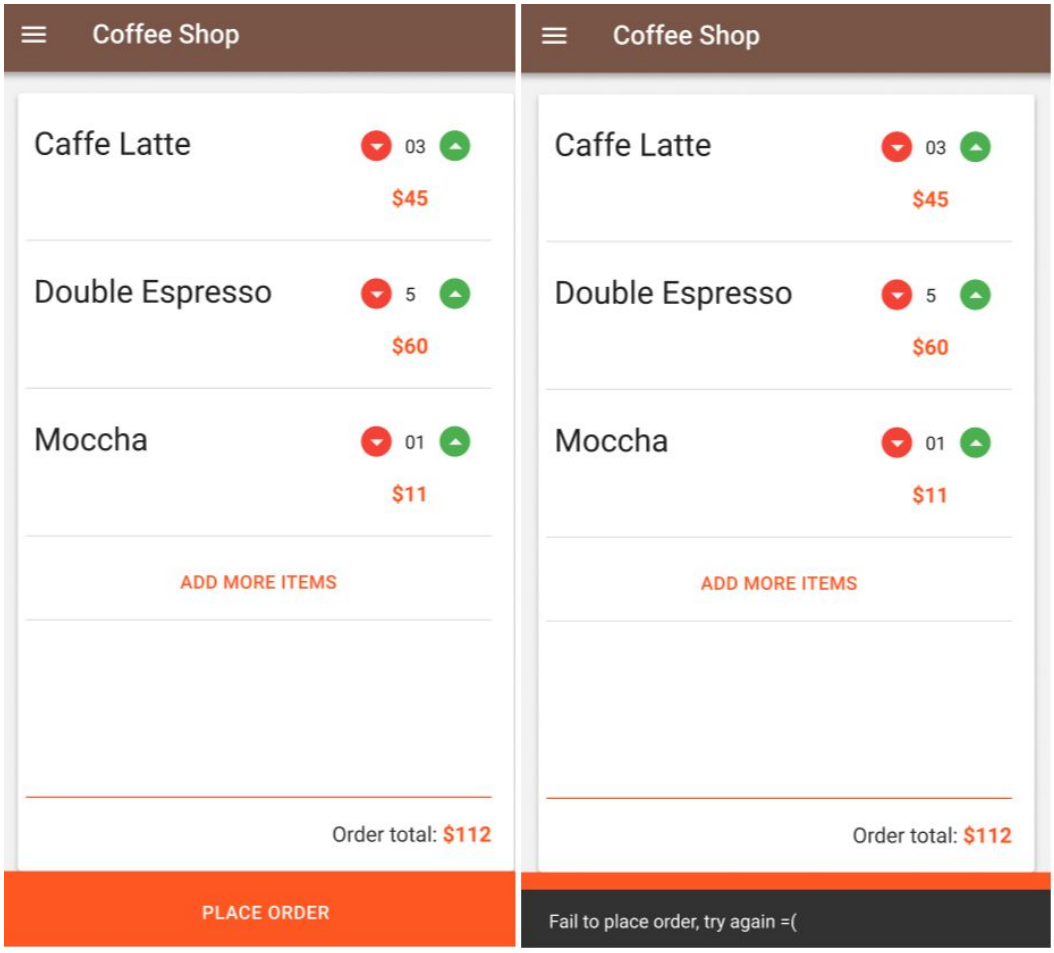
## Screen 4 - Item order




Here the user will be able to:

- Check full description and image of the coffee to be ordered(or not).
- Change quantity.
- Add comments about this order.
- View full price according to quantity selected.
- Add to cart.

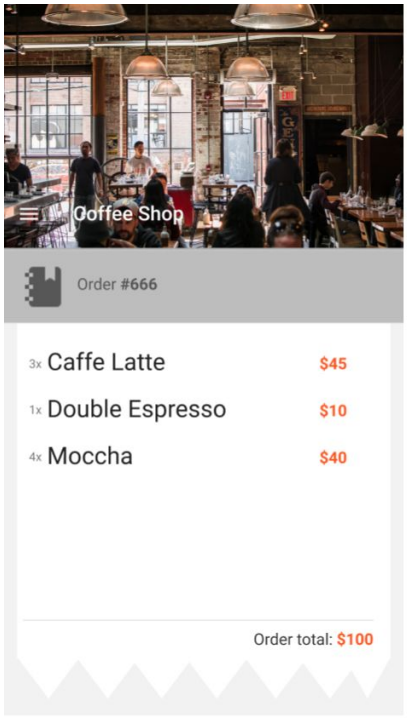
## Screen 5 - Order details




Here the user will be able to:

- Check full order, with prices and quantities.
- Change quantity.
- View full price according to quantity selected from each item.
- Add more items, will take back to coffee menu screen.
- Place order.

## Screen 6 - Final Order




Here the user will be able to:

- View the detailed order.
- This screen can also be reached by main screen when viewing details from latest orders.

## Widget


Here the user will be able to:

- View the latest announcements from MyLady Bucks.
- Open the app.

# Key Considerations

### How will your app handle data persistence?

App will handle data persistence by using Firebase Realtime database for storing Coffe Shop infos such as menus and announcements, as well as user informations, orders and user-rate.

### Describe any edge or corner cases in the UX.

When using the app without network the user will only be able to check his latest orders and use the menu features, no order will be placed or held until network connection is available.

In case of no images to be displayed a placeholder will be shown.

### Describe any libraries you'll be using and share your reasoning for including them.

- **Picasso**
  - Retrieve, cache and show images, mostly due to it's easiness to use and cache feature that will combine perfectly with the offline use of the app.
- **Parceler**
  - Serialization of objects that will transit between activities and etc.
- **ButterKnife**
  - Cleaner code = happier developer.
- **Retrofit**
  - Handle possible api calls.

### Describe how you will implement Google Play Services or other external services.

- **Firebase Realtime Database**
  - Storing Coffe Shop infos such as menus and announcements, as well as user informations, orders and user-rate.
- **Firebase Authentication**
  - App will use user authentication so it can have enough information about the client of each coffee ordered. Basic information such as name, email and phone should be checked at the end of the process when the client retrieves it's coffee in the shop.

- **Firebase CloudMessaging**
    - Warn the user it's order is ready to be collected.
    - Send new announcements, discounts, promotions.
    - Sync latest orders and reward programs.

# Next Steps: Required Tasks

This is the section where you can take the main features of your app (declared above) and break them down into tangible technical tasks that you can complete one at a time until you have a finished app.

## Task 1: Project Setup

In this step of the project I will basic configure app boilerplate and connection with Firebase

Subtasks:

- Add/Connect Firebase to project.
- Make sure all libs that will be used are in gradle.
- Create initial folder structure.
- Build UI for LoginActivity(without login fields).

## Task 2: Add firebase authentication module

Subtasks:

- Build UI for LoginActivity(with login/sign up fields).
- Connect Firebase authentication with the app by using Gmail, Facebook and E-mail authentication.
- Build UI for signup activity.

## Task 3: Configure firebase realtime database

Create tables to be reflected in the app.

Subtasks:

- Add coffee menu table and content.
- Add announcements table and content.
- Configure users table to have latest order and etc
- Reflect those tables in the app.

## Task 4: Develop app UI and Flow

Subtasks:

- Develop Main activity and it's behaviors
- Develop Menu activity and favorite system.
- Develop item order activity.
- Develop shop system (add to cart process)
- Develop Cart activity
- Develop Order details activity.

## Task 5: Add Firebase Cloud Message

Integrate Firebase Cloud Message to send order and receive order updates and news.

Subtasks:

- Create a “Server side” mini application to handle coffee orders.
- Connect MyLady Bucks app with the Server side app using CloudMessage.
- Create reward system and integrates with cloud message.

## Task 6: Tests and fixes

- Check  and fix corner cases and handle errors
- Implement UI tests.