

[Description](#)

[Intended User](#)

[Features](#)

[User Interface Mocks](#)

[Screen 01/17 - No Recipes](#)

[Screen 02/17 - Gallery View](#)

[Screen 03/17 - Gallery View, Search](#)

[Screen 04/17 - Gallery View, Landscape](#)

[Screen 05/17 - List View](#)

[Screen 06/17 - List View, Search](#)

[Screen 07/17 - List View, Landscape](#)

[Screen 08/17 - Sort](#)

[Screen 09/17 - Slide Menu](#)

[Screen 10/17 - Create Recipe](#)

[Screen 11/17 - Create Recipe, Sample Data](#)

[Screen 12/17 - Create Recipe, Scrolled Down](#)

[Screen 13/17 - Create Recipe, Landscape](#)

[Screen 14/17 - View Recipe](#)

[Screen 15/17 - View Recipe, Landscape](#)

[Screen 16/17 - Tablet, Portrait](#)

[Screen 17/17 - Tablet, Landscape](#)

[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.](#)

[Next Steps: Required Tasks](#)

[Task 1: Project Setup](#)

[Task 2: Implement MainActivity Activity/Fragment](#)

[Task 3: Implement ViewRecipe Activity/Fragment](#)

[Task 4: Implement CreateRecipe Activity/Fragment](#)

[Task 5: Implement Firebase Authentication](#)

[Task 6: Implement Firebase Realtime Database](#)

[Task 7: Connect to Database](#)

[Task 8: Implement Widget](#)

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Recipist

Description

Recipist is a simple recipe app, that allows the user to create their own recipe.

The recipes can be set to be either *completed* or *in progress*, dependent on whether or not you feel that the recipe is living up to it's full potential. Each recipe can have a main image, and for each step there can also be added an image and a timer. The recipes will be stored online, and also locally for offline access.

Intended User

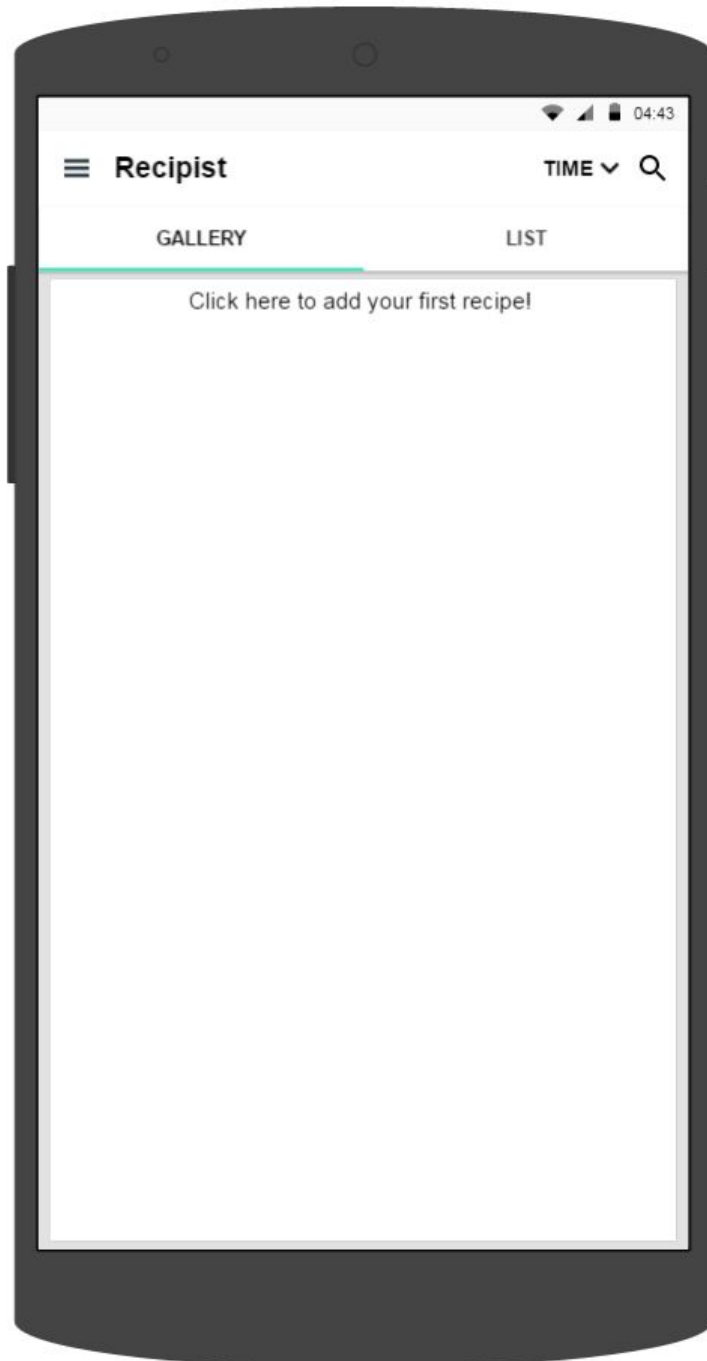
Recipist is intended for anyone who wants to start developing their own recipes.

Features

- Create recipe
 - Add main recipe photo
 - Add photo for each step
 - Add timer for each step
 - Indicate whether the recipes development is finished or not
- Gallery view of recipes
- List view of recipes
- Search in your own recipe catalog
- Sort the recipes in the gallery/list view.
- Online & offline access

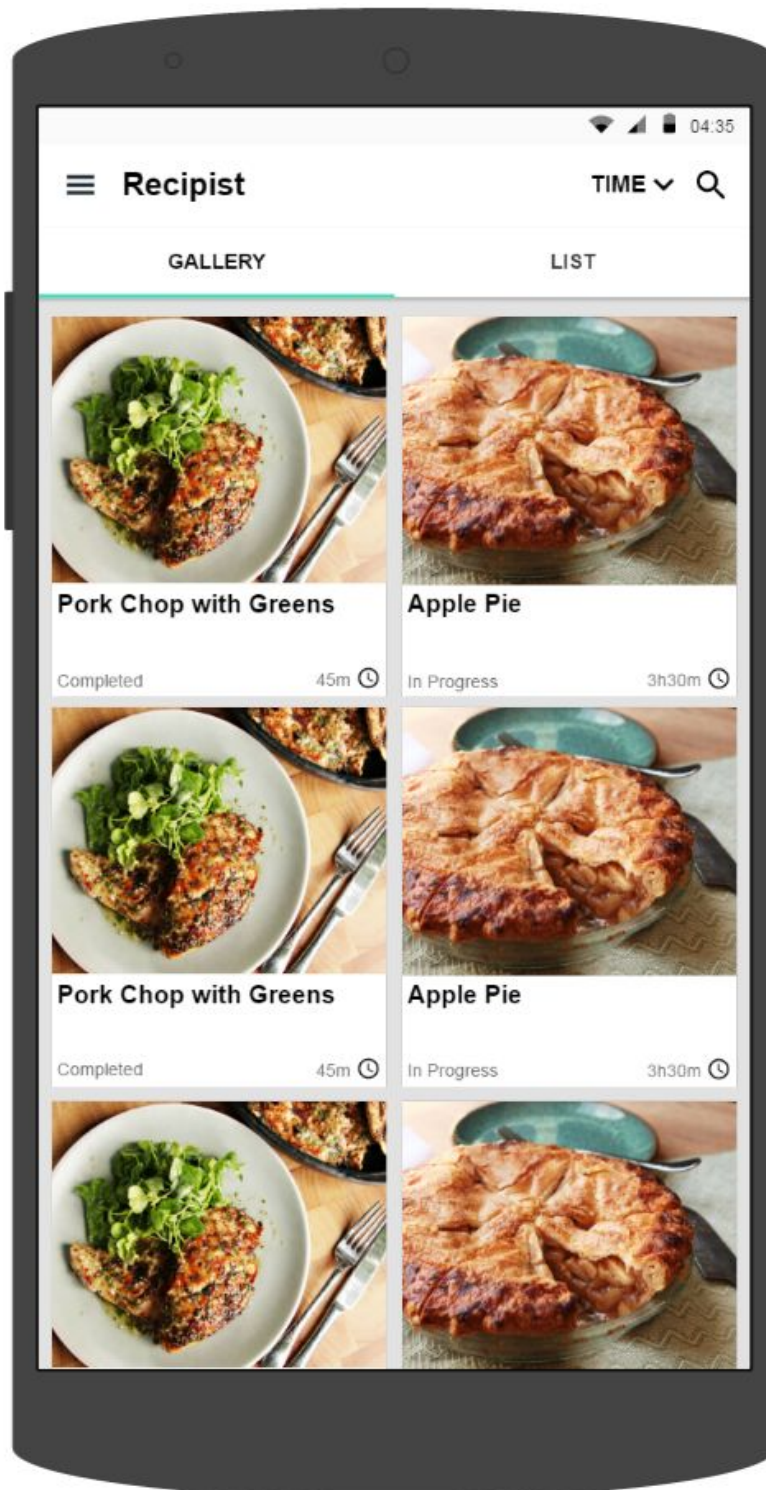
User Interface Mocks

Screen 01/17 - No Recipes



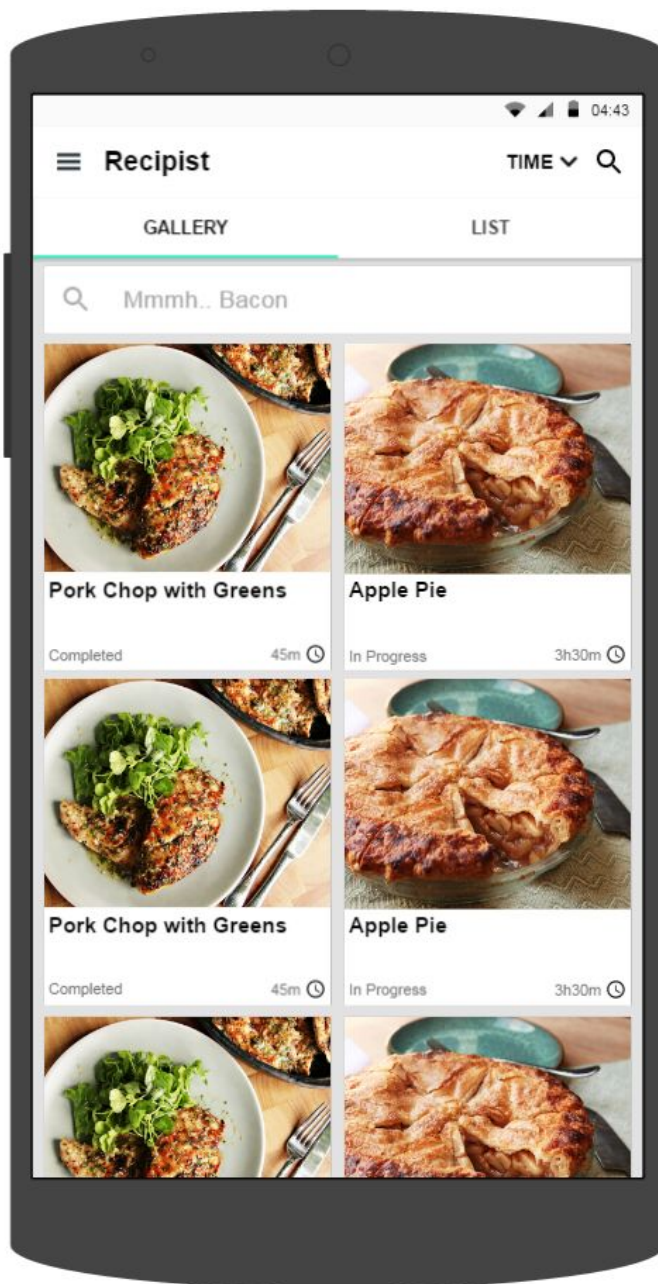
This is the start screen the user will see after authentication, it will be the same for the gallery & list view, if they haven't added any recipes.

Screen 02/17 - Gallery View



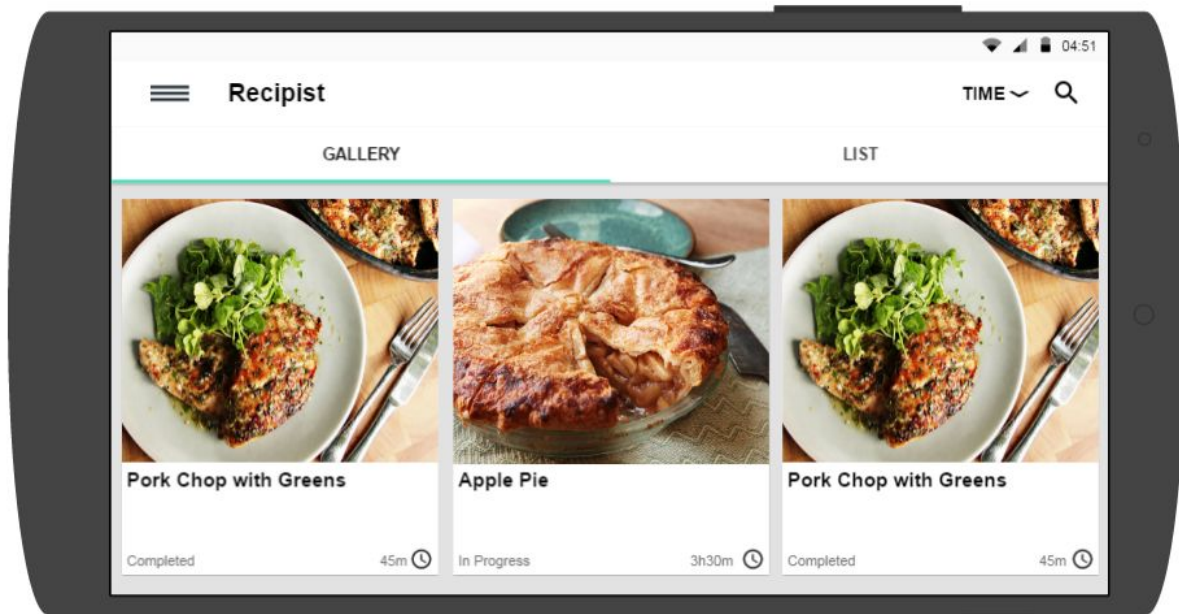
Once the user has started adding recipes, it could look something like this.

Screen 03/17 - Gallery View, Search



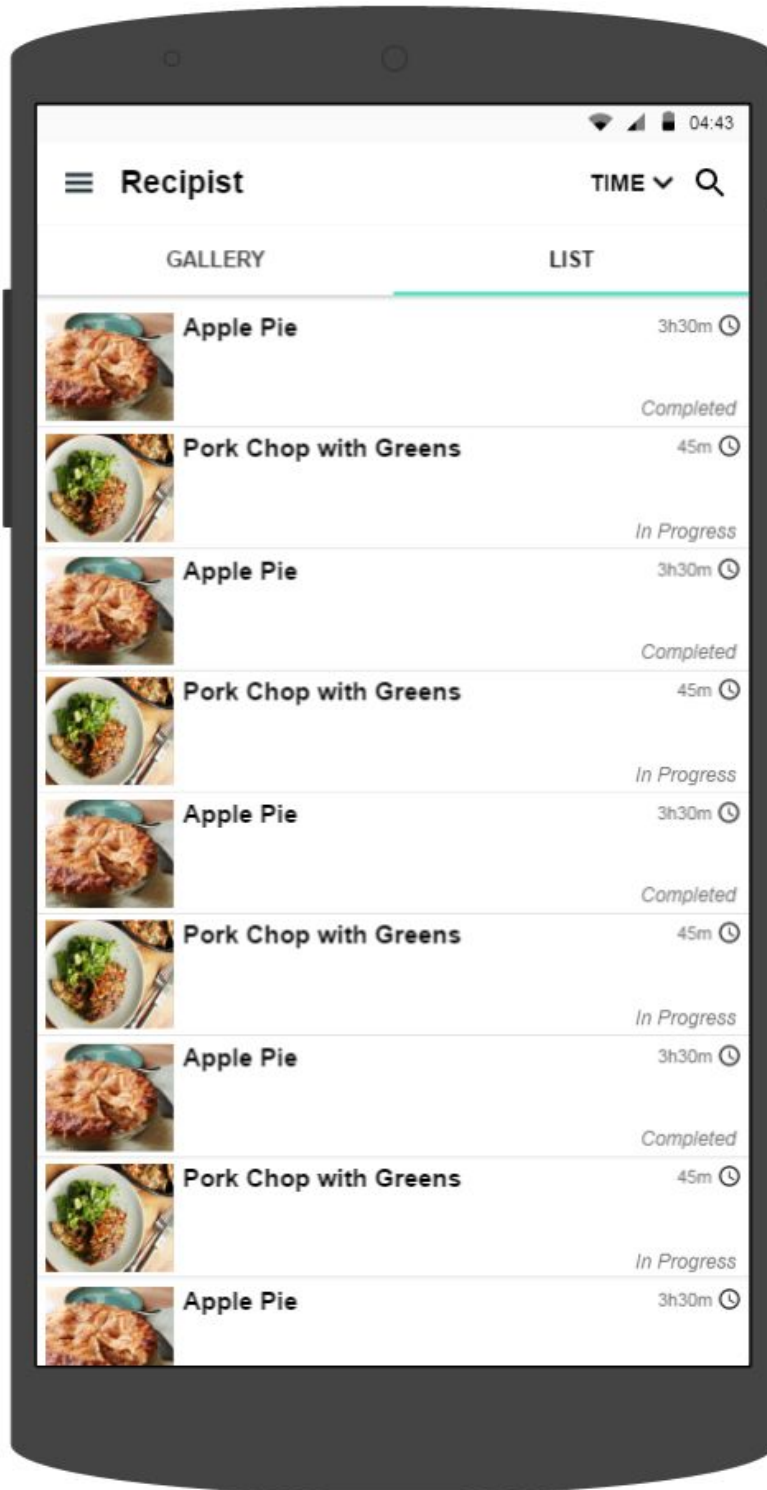
When the search button in the top right corner is clicked, there will be a search box displayed on the screen awaiting the user's input. (Press the search button in the top right corner to close the search box)

Screen 04/17 - Gallery View, Landscape

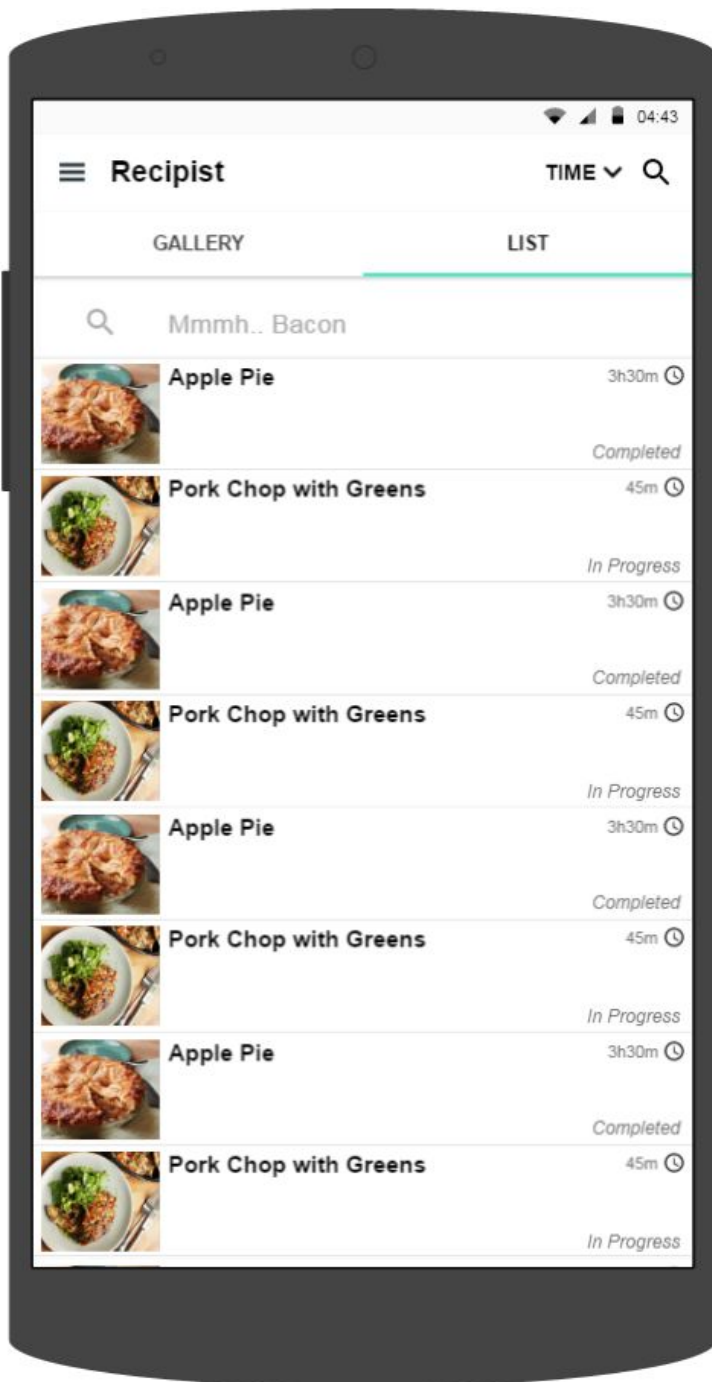


How it would look in landscape mode, but instead of scrolling vertical, the user will scroll horizontally.

Screen 05/17 - List View

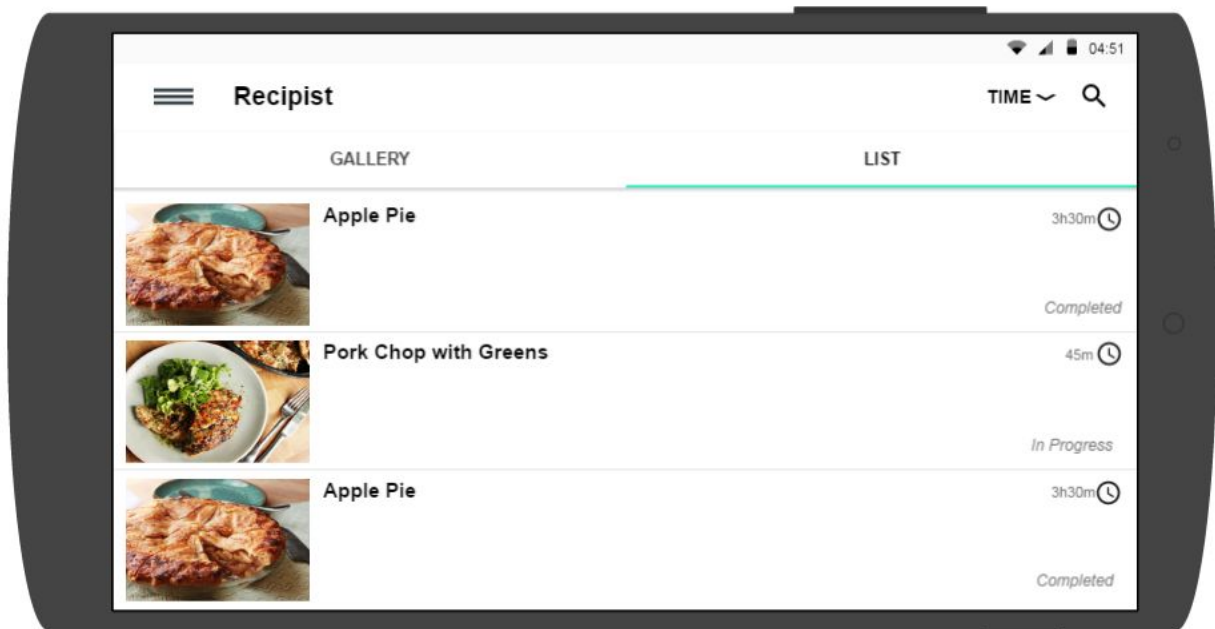


How it will look with recipes added in the list view.

Screen 06/17 - List View, Search

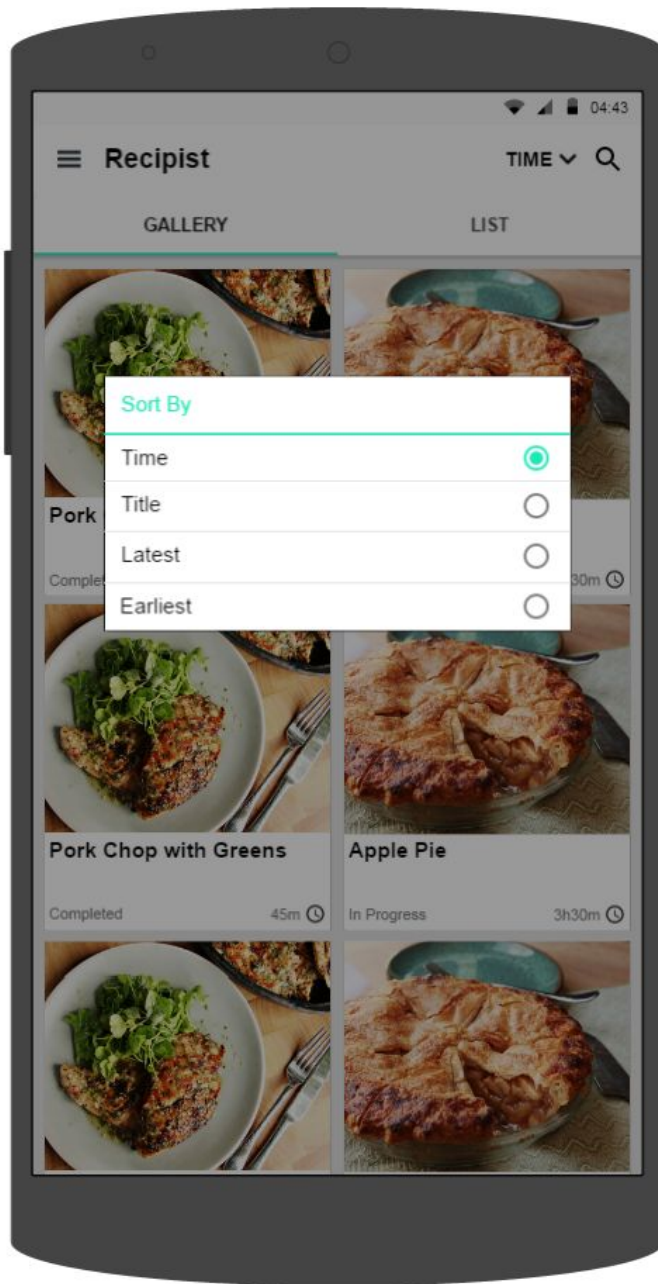
As with the list view, when the user clicks on the search icon (top right), a search box will be displayed, where the user easily can search for a recipe, and clicking on the search icon again, will make the search box disappear.

Screen 07/17 - List View, Landscape



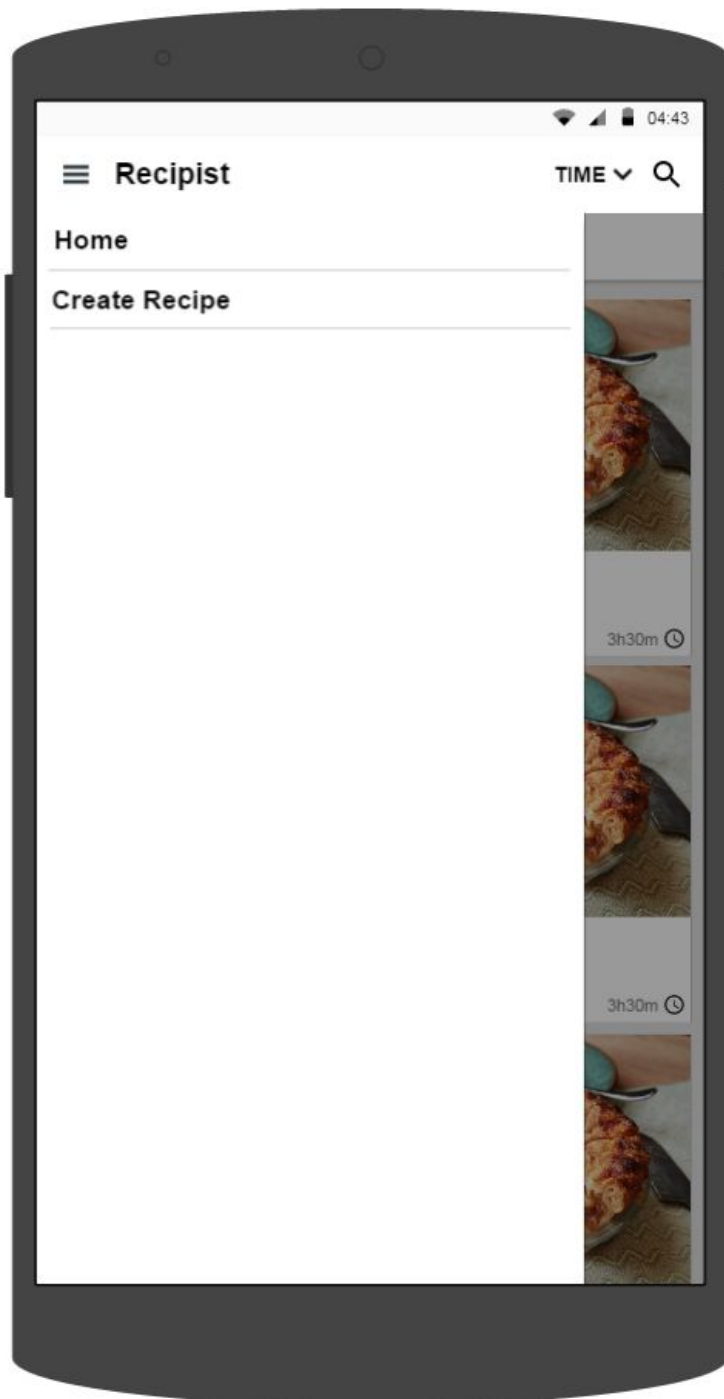
The list view in landscape mode, still scrolling vertically as in the portrait mode.

Screen 08/17 - Sort



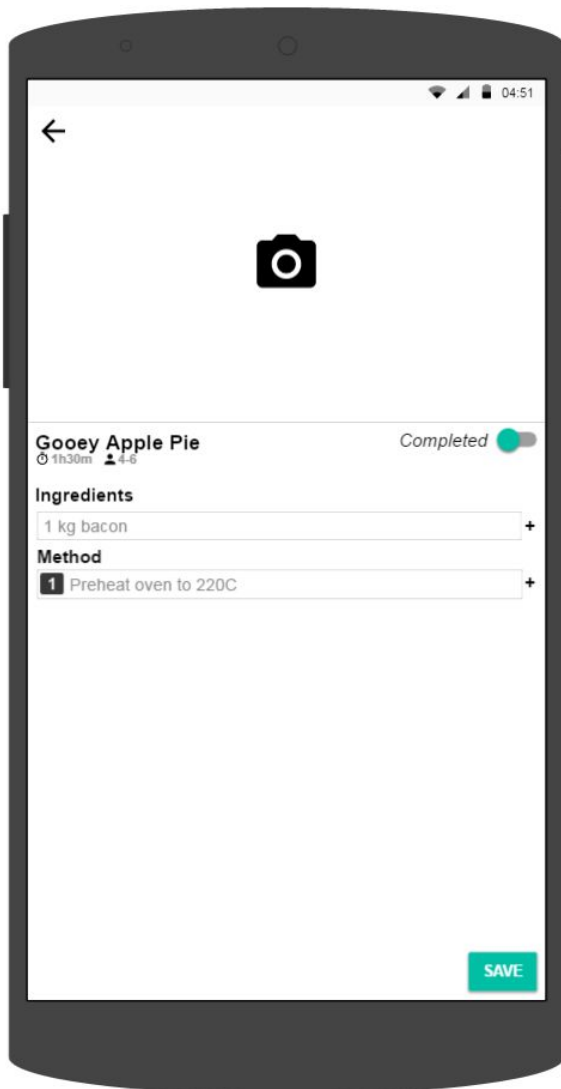
The user can easily sort their recipes by clicking on the TIME with an arrow down icon, whether or not they are in the gallery or list mode. A popup will be displayed, and the user can choose their desired sorting preference. The TIME text will change accordingly to what the user has selected as their sorting preference.

Screen 09/17 - Slide Menu



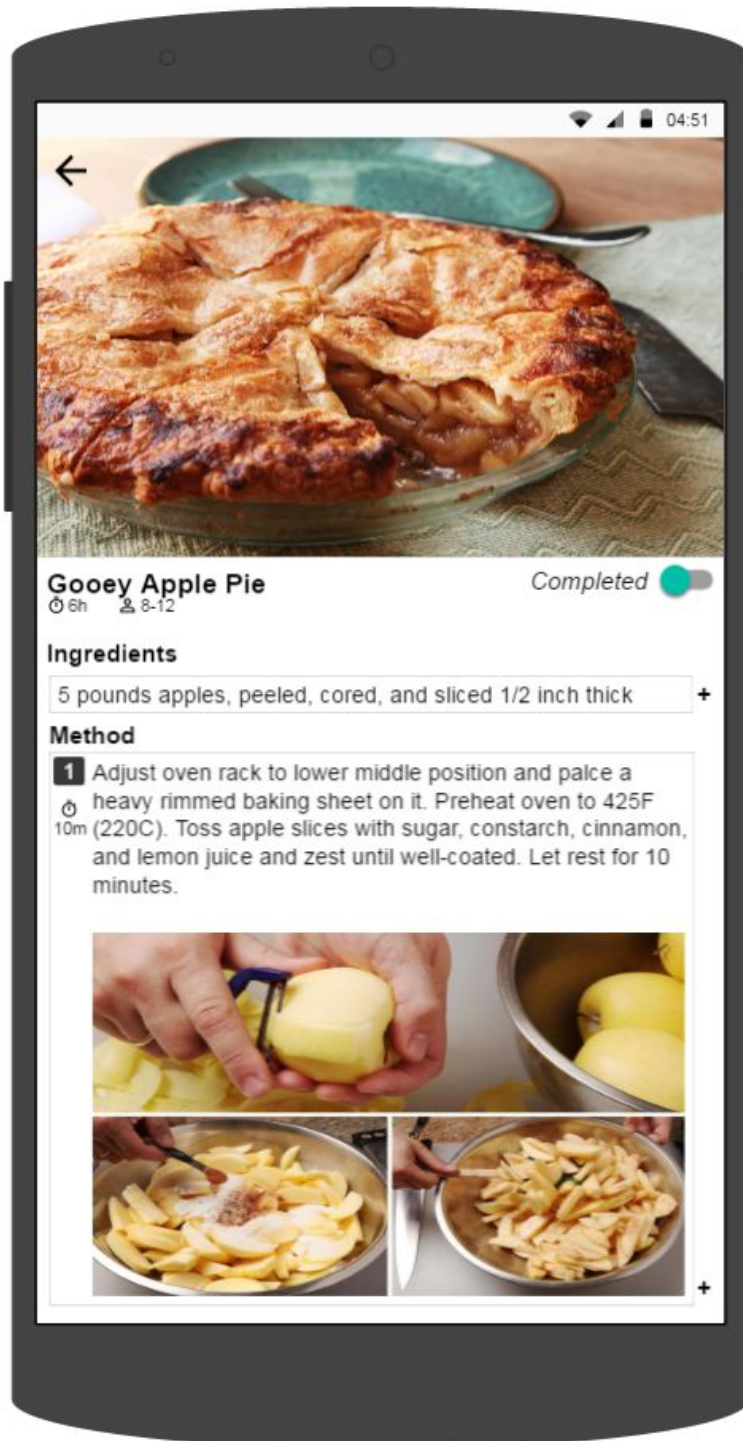
Pressing the hamburger icon, the user will see a slide out menu, and there they can either choose to go to Home which is where they can get an overview over their recipes, or they can go to Create Recipe where they can create a new recipe.

Screen 10/17 - Create Recipe



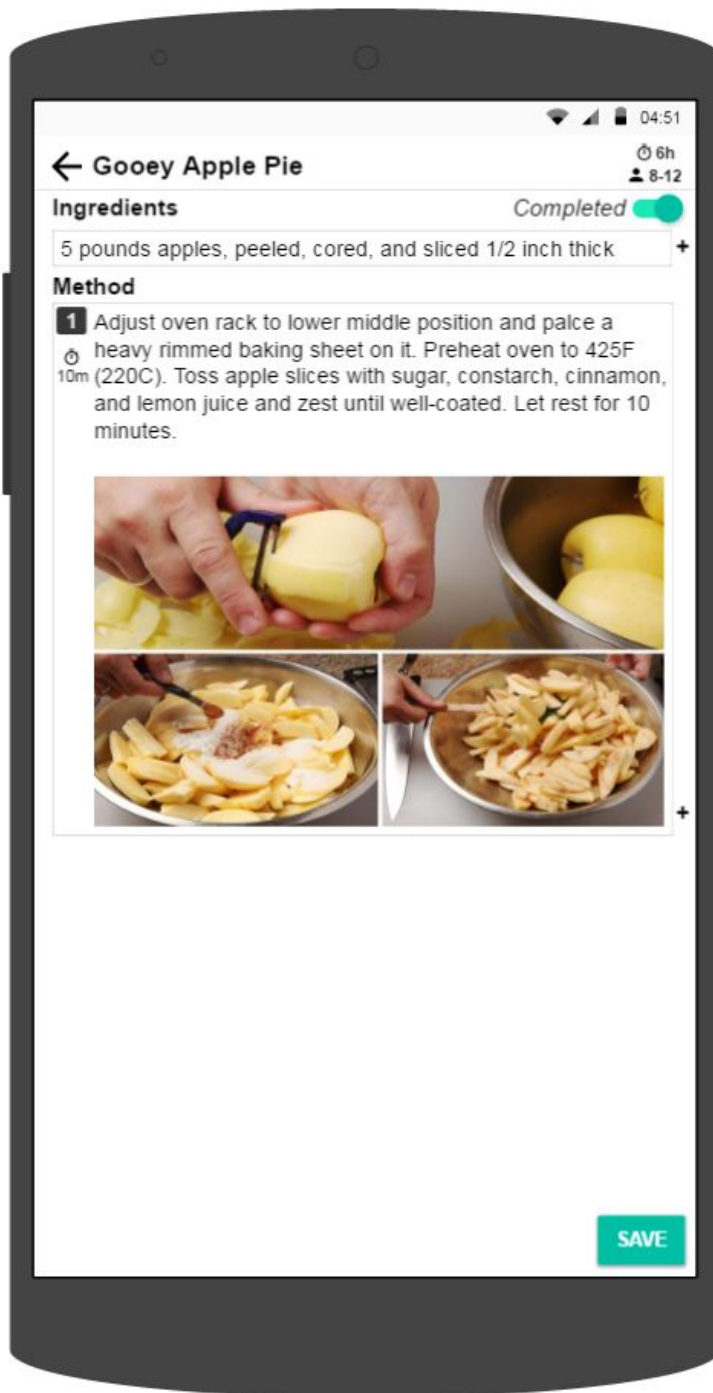
Once the user goes to the Create Recipe screen, they will be shown the following screen. They can go back to where they were before, by clicking on the arrow in the top left corner, they can choose an image from their own photos on their Android device, by clicking on the camera icon. They can edit the title by clicking on it, same with the overall recipe time & servings. Plus they can indicate whether or not that their recipe is still in development or if it is finished and ready for use! They can add new ingredients by clicking the + to the right. And they can edit their current ingredients by clicking on them. Same goes with method, but when adding a method, the user will also have the possibility to add an image from their photos on the Android device, and adding a timer.

Screen 11/17 - Create Recipe, Sample Data



Here is a screen with some sample data filled in.

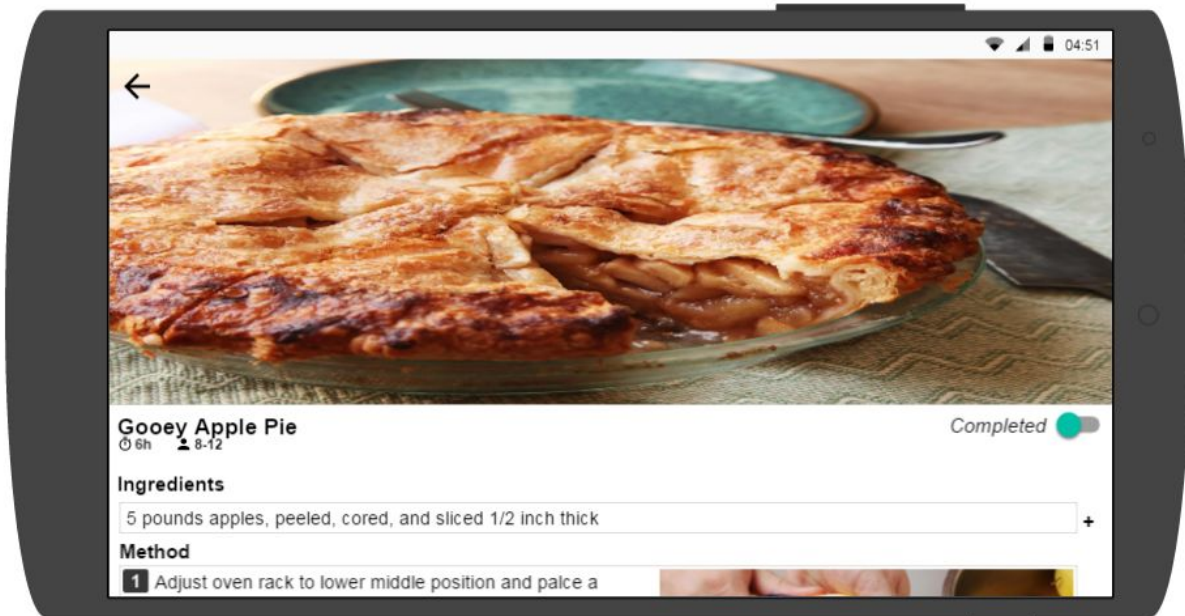
Screen 12/17 - Create Recipe, Scrolled Down



If the user has enough information for the recipe, and they have the availability to scroll down, their recipe image will disappear, and the recipe title, time & servings will appear on top instead.

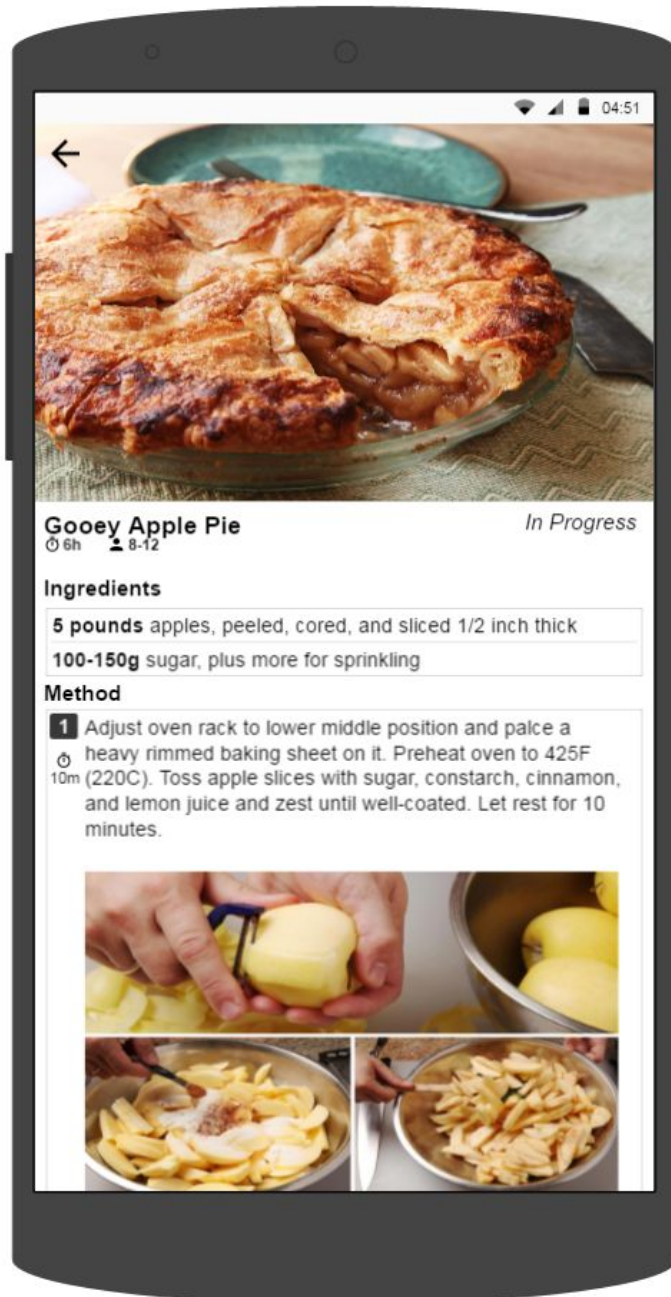
This scrolling effect is also for the landscape mode, tablet, and also for when the user is viewing recipes.

Screen 13/17 - Create Recipe, Landscape



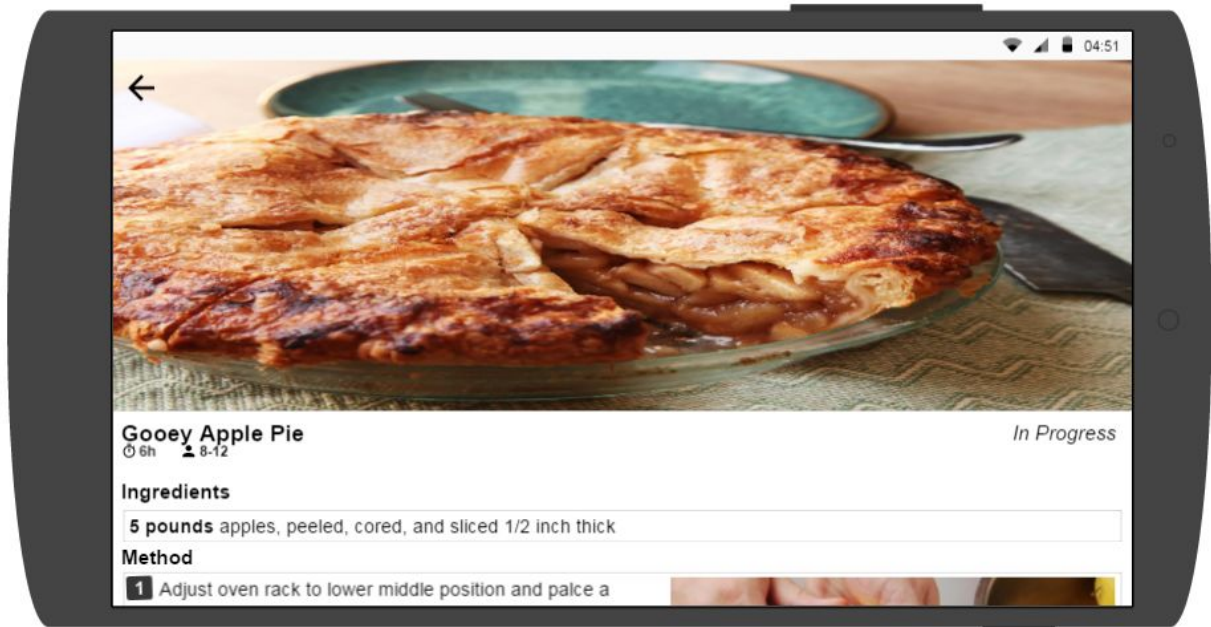
How it will look in landscape mode. Instead of having the image in the method below the text, it will go to the right.

Screen 14/17 - View Recipe



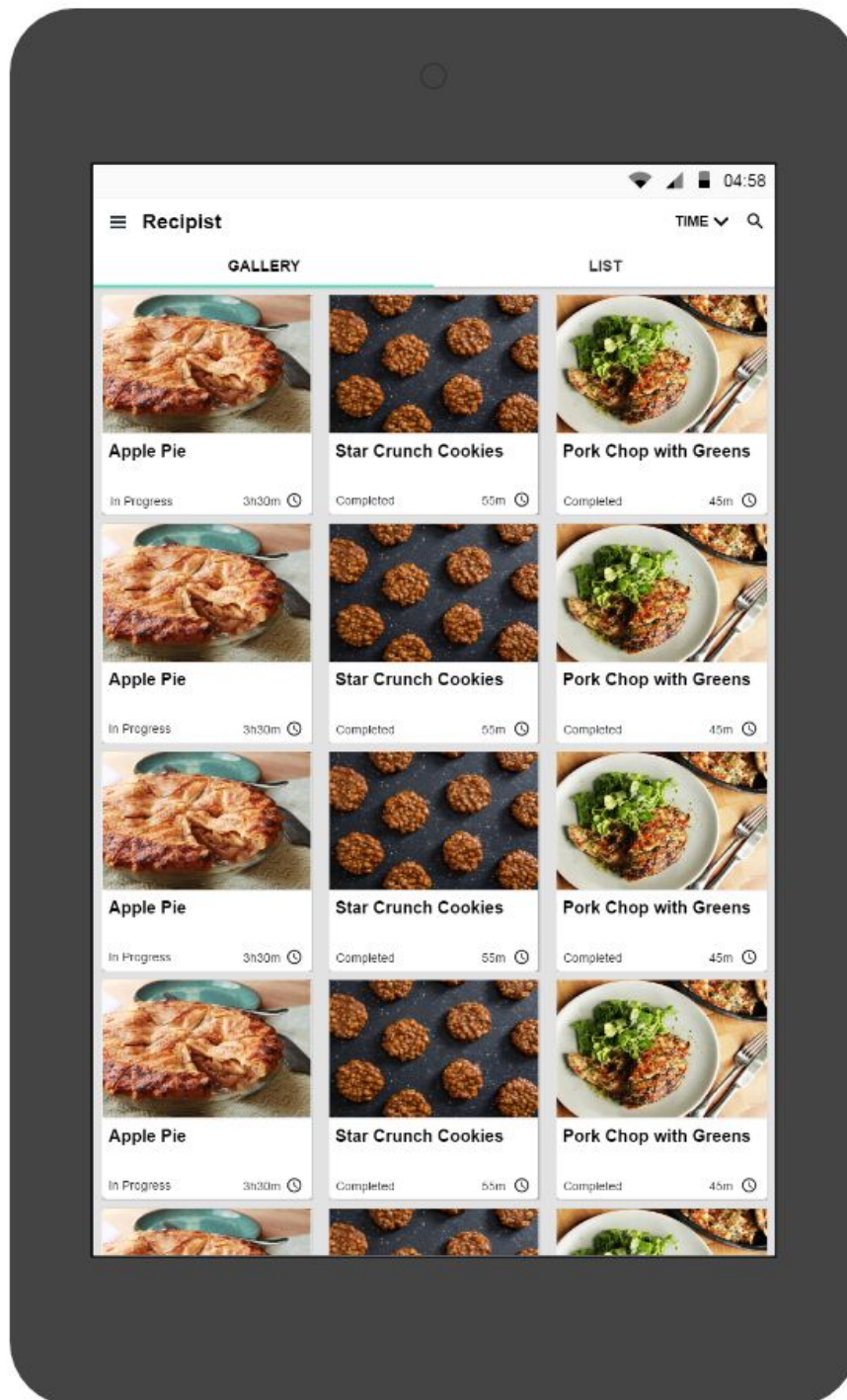
This is how it will look for the user when they're viewing their recipe. They will have the ability to on a timer in each step, which will start a timer (can be paused by clicking on it, reset by double clicking), and when the user is notified that the timer is finished it will also have a message indicating what recipe and step it is for, in case they have multiple timers.

Screen 15/17 - View Recipe, Landscape



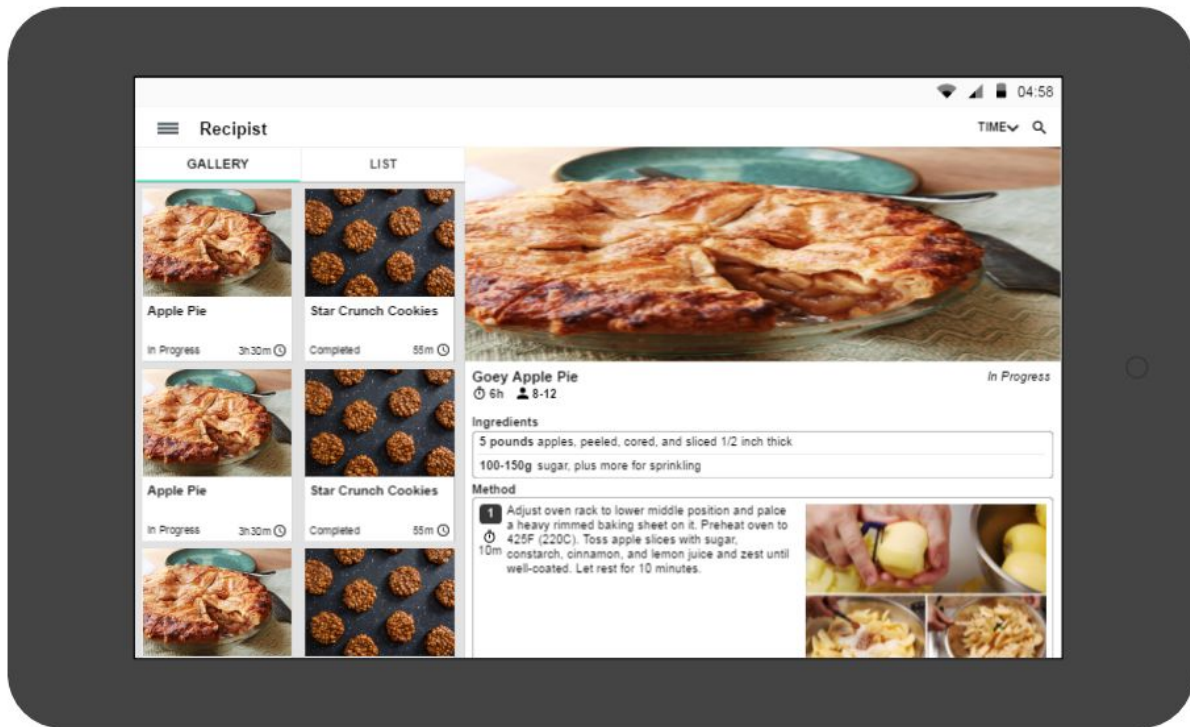
How it will look in landscape mode, when viewing a recipe. As with creating a recipe, the image in the method, is to the right instead of below the text.

Screen 16/17 - Tablet, Portrait



The portrait mode on the tablet, will work pretty much the same as the portrait mode on the phone, except there might be a few more items displayed.

Screen 17/17 - Tablet, Landscape



When the tablet is in landscape mode, it will allow the user to easily choose the recipe on the left, and at the same time view them as well on the same screen.

Key Considerations

How will your app handle data persistence?

I will be using the [Firebase Realtime Database](#) for storing the user's recipes, and also store their recipes locally offline.

Describe any corner cases in the UX.

The user will be prompted a login screen at first sight, where they will be able to login with their Google account using the Firebase Authentication.

If an image cannot be displayed, it will show a placeholder instead.

When the user is creating a new recipe, and they want to edit/create a new ingredient and or create/edit a step in the method, they will be sent to a new screen, where they can do the required task.

If the user isn't connected to the internet, just let them know that they're offline, and we will try to look for any recipes stored locally. But also ask the user if they want to try and re-connect.

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

The two Google service libraries I will be using from <https://developers.google.com/android/> are Firebase Authentication & Realtime Database.

Authentication

I need some way to have the user login, so their recipes can be stored online, and using an approved library by Google, seems like the way to go, and also having the users log in with their Google account, should make it easy for anyone with an Android device.

Realtime Database

I will need to store my recipes online, and I'd also like to store them offline as well, the Firebase Realtime Database provides both of these, and it's approved by Google!

Picasso

I've used it before back in P1/2 to load images, and I found it to be a good way to handle images.

ButterKnife

it just makes everything that much simpler, and I've also had good use of it in the past.

[Robolectric](#)*

[Dagger2](#)*

[EventBus](#)*

[Espresso](#)*

*These are libraries that I'd like to use, since I've heard a lot of good about them. But I doubt I'll have enough time to develop a proper understanding of them, but if there is I'll definitely try and use them!

Next Steps: Required Tasks

Task 1: Project Setup

- Configure libraries
- Create folders & dummy classes

Task 2: Implement MainActivity Activity/Fragment

- Create layout for
 - Gallery view
 - List view
 - Sorting
 - Searching
- Add dummy data

Task 3: Implement ViewRecipe Activity/Fragment

- Create layout
- Add dummy data
- Add functionality
 - Timer
 - Show countdown
 - Receive notification on end

Task 4: Implement CreateRecipe Activity/Fragment

- Create layout
- Add functionality
 - Be able to pull photos from android device
 - Add timer

Task 5: Implement Firebase Authentication

- Create layout
- Add Google log in

Task 6: Implement Firebase Realtime Database

- Setup database
- Add dummy data

Task 7: Connect to Database

- Pull dummy data from database to MainActivity
- Pull dummy data from database to ViewRecipe
- Push data to database from CreateRecipe

Task 8: Implement Widget

- Create layout
- Show completed recipes