

Recipe Finder

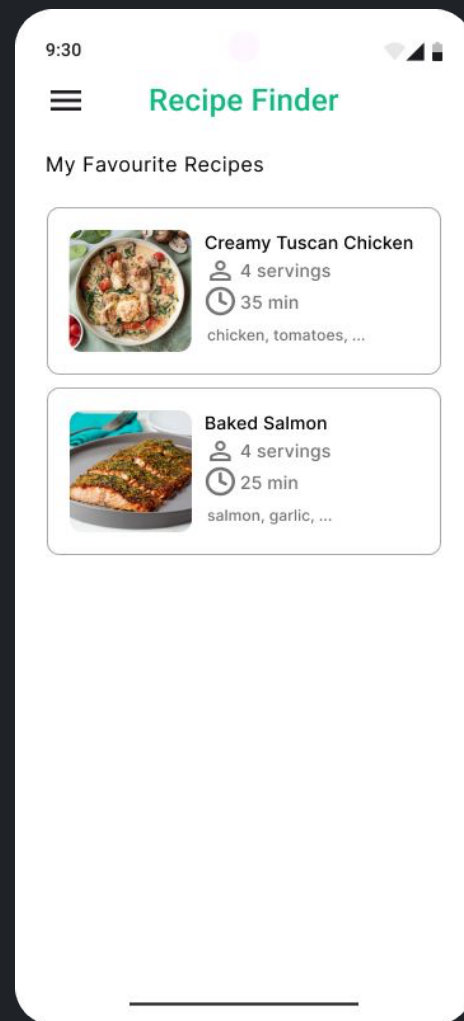
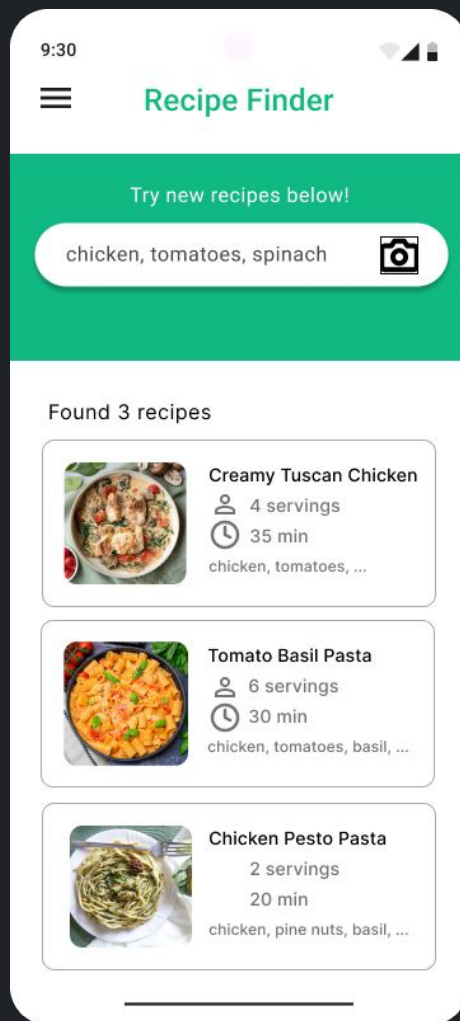
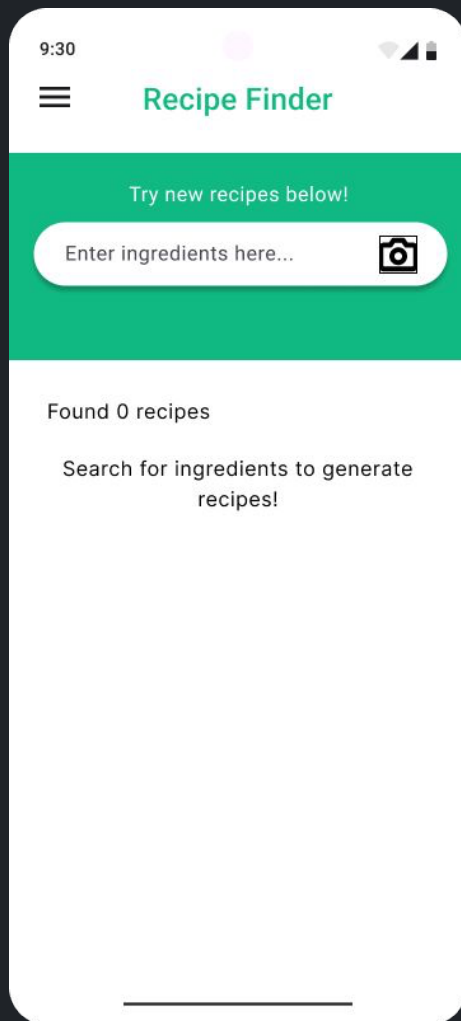
Show and Tell 1

Group 19



UI Mockup

Main Search Page, Favorites Page, Recipe Details Page, and User Profile



9:30



Recipe Finder



Tomato Basil Pasta



4 servings

30 min

Ingredients

- Rigatoni 300g
- Olive oil 2 tbsp
- Chicken breast 450g
- Salt 1/2 tsp
- Ground black pepper 1/4 tsp
- Dried basil 1/2 tsp
- Shallot, diced 1 Large
- Garlic cloves, chopped 2 Cloves
- Cherry tomatoes 400g
- Italian seasoning 1 tsp
- Tomato paste 2 tbsp

9:30



Recipe Finder

- Dry white wine 125 mL
- Fresh basil leaves 1 cup
- Heavy cream 1 cup
- Parmesan, grated 1/3 cup

Instructions

- 1 Boil a large pot of water and salt generously. Cook pasta according to package directions until al dente.
- 2 Heat 1 tbsp of olive oil in a large pan and add the chicken along with the salt, black pepper, and dried basil.
- 3 Stir well until chicken is well-seasoned and cook for 7-8 minutes until golden.
- 4 In the same pan, heat remaining olive oil and cook the shallots and garlic for 2-3 minutes until soft.
- 5 Add cherry tomatoes and cook for 5 minutes or until they begin to burst. Press tomatoes down and cook for another minute.
- 6 Stir in the Italian seasoning and tomato paste, then add dry white wine and cook for 1-2 minutes until alcohol evaporates.
- 7 Stir in the fresh basil and heavy cream, and cook for 1-2 minutes.
- 8 Add cooked chicken in the pan, and stir pasta with the grated Parmesan cheese.

9:30



Recipe Finder



Profile

Manage your preferences

Edit Profile

Name

John Doe

Email

john_doe@example.com



Dietary Restrictions

Vegetarian

Nut Allergy



Favorite Cuisines

Italian

Japanese

Thai

MVVM Architecture

How Recipe Finder Manages Data and UI interactions

Views & ViewModels

Views

- UI screens based on the Figma design
- Main activities and fragments:
 - **Results Fragment:** Contains the search bar which displays recipe list based on user input
 - **Recipe Details Fragment:** shows selected recipe information
 - **Favorites Fragment:** Displays user-saved recipes
 - **Camera:** Capture ingredients in the image
- Displays data provided by ViewModel

ViewModels

- Requests data from Repository and exposes it as LiveData
- A corresponding ViewModel is created for each main fragment:
 - Search result list
 - Selected recipe details
 - Favorites list
- Ensures UI is automatically updated when data changes

Repository & Model

Repository

- Sends user input to our **FAST API backend** which calls the **Gemini API** to generate recipes
- Receives the generated recipe response and passes it to the ViewModel
- Handles saving and retrieving user-favorite recipes through the **Room Database**

Model

- Defines how recipe objects are stored and processed
- Uses Room **DAO** to insert, delete, and load favorite recipes locally

Diagram: [MVVM](#)



Demo



Plan for Show and Tell 2

- Everything done except for the favourite recipe.
- Further development of suggestions from TAs



Work Breakdown

Justinne	Kevin	Mark	Yan Ting	Brian
UI Mockup	Database Schema	MVVM Diagram	Support everyone	User settings / Profile
Project Webpage	Video Presentation	Database		Sharing recipes among users
Fragments	Presentation Slides	Gemini API		
Presentation Slides				