Design Document for KitchenMingle

Group LG_116

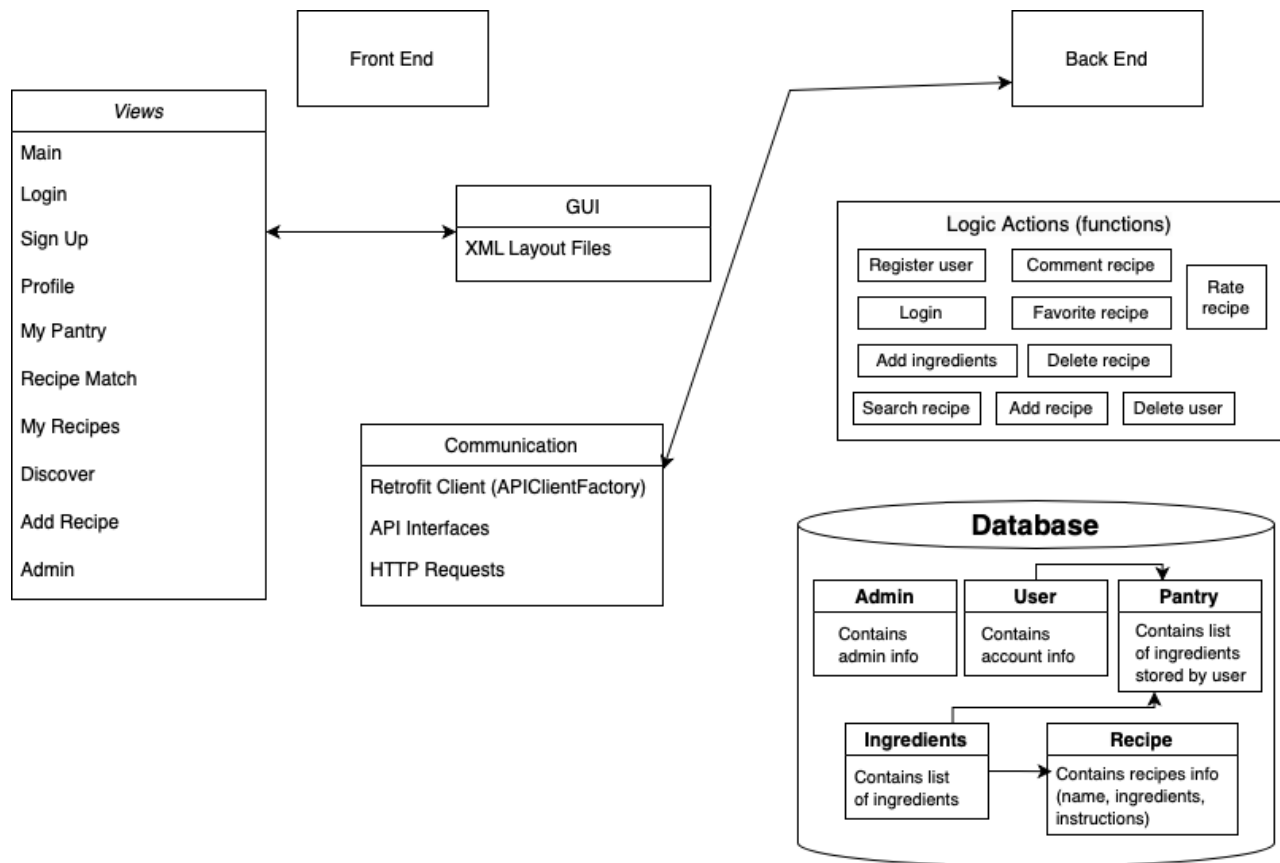Christy: 25% contribution

Jesus Soto: 25% contribution

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Front End

Views
Main
Login
Sign Up
Profile
My Pantry
Recipe Match
My Recipes
Discover
Add Recipe
Admin

Back End

GUI
XML Layout Files

Logic Actions (functions)

Register user	Comment recipe	Rate recipe
Login	Favorite recipe	
Add ingredients	Delete recipe	
Search recipe	Add recipe	Delete user

Communication
Retrofit Client (APIClientFactory)
API Interfaces
HTTP Requests

Database

Admin	User	Pantry
Contains admin info	Contains account info	Contains list of ingredients stored by user

Ingredients	Recipe
Contains list of ingredients	Contains recipes info (name, ingredients, instructions)

Frontend (currently implemented)
activity_main
- Main has generates a page with the following elements:
    - TextView: KitchenMingle
    - Button: btnToSignUp
    - Button: btnToLogin
- Clicking either the btnToSignUp or btnToLogin takes you to either the sign up page or login page

activity_signup (User)
- Has the user create an account, generates a page with the following elements:
    - EditText: confirmPasswordEditText
    - EditText: usernameEditText
    - EditText: passwordEditText
    - EditText: emailEditText
    - Button: btnToMain
    - Button: btnSignUp
- The sign up page takes user input of their username, password, email, and the password confirmation. It will take the user to the recipe creation page.

activity_login (User)
- Login creates an page with the following elements:
    - Button: btnLogin
    - Button: btnToMain
    - EditText: passwordEditText
    - EditText: emailEditText
- The login page takes user input of their password and email. It will take the user to the recipe creation page.

activity_indredient
- generates a page with the following elements:
    - EditText: recipeName
    - TextView: activity_main_textView1
    - Button: activity_main_post_by_body_button
    - EditText: activity_main_recipename_editText
    - TableLayout: tableLayout
    - TableRow: ingredientName1
    - TextView: quantityTextView
    - Button: increase1
    - Button: decrease1
    - TextView: textViewMyPantry
    - Button: button
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Backend
Communication
Backend uses mappings to update the database based on the information sent to the given mappings' URLs.

- GET: Request information that're already stored in the database
- POST: Send information on an object(user, recipe, etc.) to be added to the database
- PUT: Send information to update a specific item in the database
- DELETE: Send an identifier to remove a specific item in the database

Controllers
Controllers contain the mappings for communication between frontend and the database.
- Users: Creates (register) users, contain one-to-one relationship with pantry
- Pantry: Stores ingredient based on user input, connected to the Users table
- Ingredient: To add list of ingredients to the database that will be used by Pantry and Recipe
- Recipe: Stores list of recipes, Users(Editor) are allowed to add new recipe that will be added to the database
- Admin: Has access to the database to perform changes such as delete users.