

CookBuddy

Block Diagram

Team Number:

SB_02

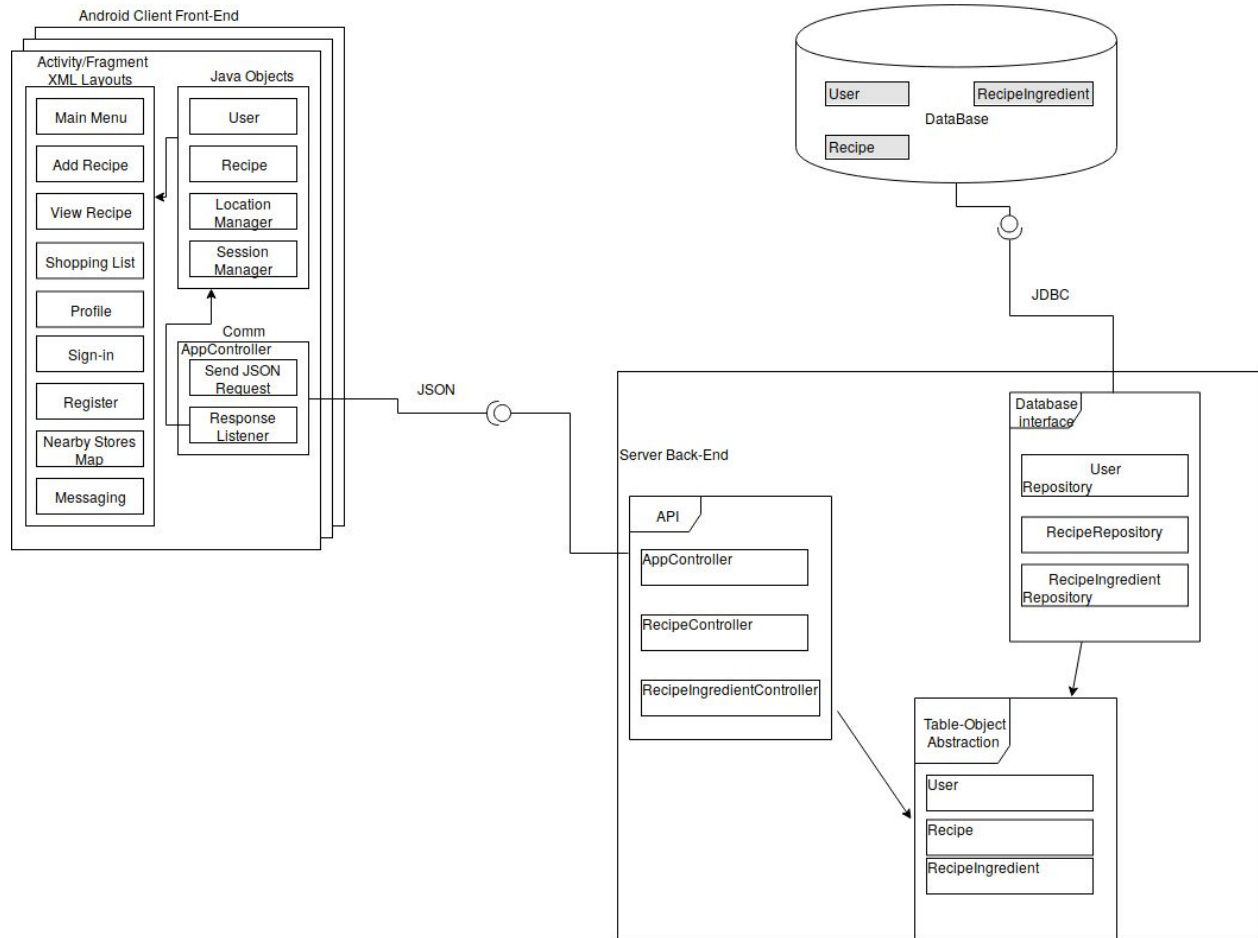
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Design Description

Front-End

The front-end of our app is made for android users, so we use XML layout files and Java classes to control the communication with the back-end and the displaying of the fetched data. The ApplicationController is used to send JSON Requests to the server, and the Java classes use the response to dynamically display the desired information. The SessionManager is used to manage which user is logged in and ensure their personal data is saved properly. The “Nearby Stores Map” uses the Google Maps and Google Places APIs to allow the users to view their current location and nearby grocery stores. Other views allow users to see specific bits of information such as all recipes, info about a single recipe, or the user’s shopping list. The messaging view allows for users to join a global chat where they can discuss recipes.

Back-End

The back end server is designed to provide an publicly facing api and to access a mySQL database, as well as a messaging service. The server uses JSON files for communication with the client. It uses the api calls and JSON files to build or update classes that are used as an abstraction of the database tables. Functionality includes: creation of users and recipes, access of users and recipes, as well handling per user recipes and sign in. The messaging is handled by socket creation and allows for an app-wide real-time instant messaging service for anyone using the app.

Tables and Fields

User:

+-----+	
Field	
+-----+	
id	
email	
name	
password	
+-----+	

Recipes:

+-----+	
Field	
+-----+	
id	
instructions	
recipe_name	
user_id - Many-to-one with User id field	
+-----+	

Ingredients

+-----+	
Field	
+-----+	
id	
name	
notes	
amount	
user_id - Many to one relationship with User id field	
recipe_id - Many to one relationship with Recipe id field	
+-----+	