

Design Document for FoodTime

Group 1_HB_6



Anthony Manschula - 25%

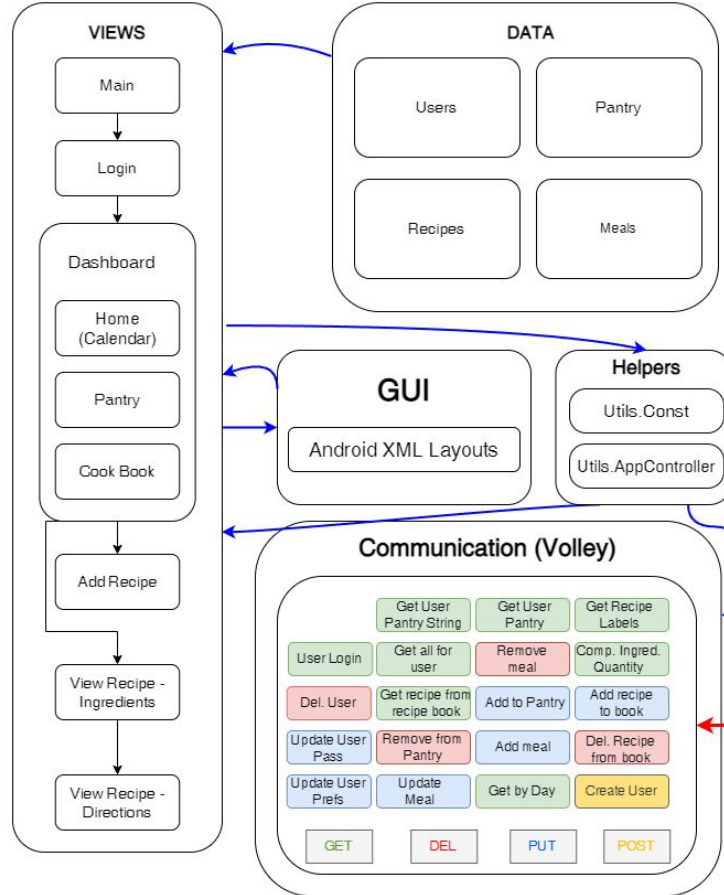
Blake Hardy - 25%

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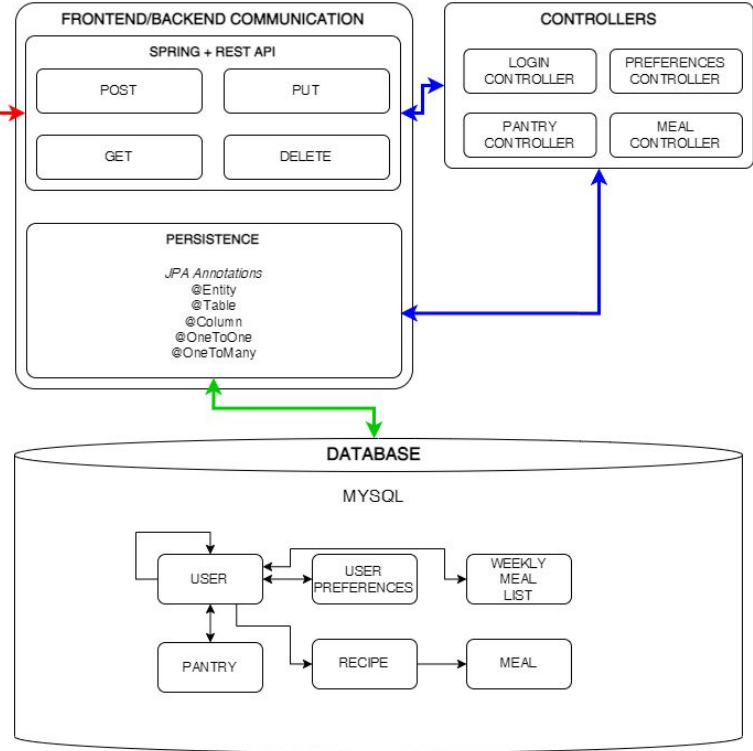
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FRONTEND



BACKEND



HTTP CONNECTION JDBC CONNECTION RELATIONSHIP

Frontend (Currently Implemented)

Main (Child, Parent, Admin) - Welcome the user and provide a landing page

- Button: Get Started → Send user to Login

Login (Child, Parent, Admin) - Login an existing user or create a new account. Takes input of email and password and login (if the user exists). For new accounts, an account role (Child, Parent, or Admin) and the username of the parent account is additionally required

- EditText: E-mail
- EditText: Password
- RadioButton: Child Role
- RadioButton: Parent Role
- RadioButton: Admin Role
- EditText: Parent Username
- Button: Create Account
- Button: Login

Calendar (Child, Parent, Admin) - Show the user their meal schedule at a week-by-week glance, with a detailed description for each day when clicked

- CalendarView: Weekly Calendar
- ListView: Meals list to show meals scheduled for the selected day
- Button: Schedule meals from the cookbook to a day of the week on the calendar

Frontend Cont. (Currently Implemented)

Pantry (Child, Parent, Admin) - View a list of ingredients and groceries currently available to the user added by the user

- EditText: Add Ingredient Name
- EditText: Add Ingredient Quantity
- EditText: Add Quantity Type

Cookbook (Child, Parent, Admin) - View a list of all recipes available for the user to schedule as a meal, added by the user. Each recipe also contains a list of required ingredients and directions that are compared with the available ingredients in the pantry

- CardView: View list of recipes as clickable cards with names and thumbnails
- Button: Add recipe to Cookbook (Parent/Admin only) → Navigates user to AddRecipeActivity

AddRecipe (Parent, Admin) - Add a new recipe to the user's cookbook, specifying ingredients and directions

- EditText: Ingredient names, quantities, quantity types
- EditText: Directions for cooking the recipe
- Button: Save and submit recipe to database

ViewRecipe (Parent, Admin) - Not implemented yet

Backend

Communication:

- Backend uses standard HTTP *POST*, *GET*, *PUT*, and *DELETE* mappings for our REST controllers

Controllers:

- User: used for login and to associate relevant data. Contains one-to-one relationships to: userPreference, Pantry, MealList and one-to-many relationship with: RecipeBook
- Meal: used to store lists of ingredients and other data relevant to creating a meal
- Pantry: stores ingredients associated with user to be used in meals
- UserPreferences: stores data for user app preferences like dark mode and access levels. One-to-one with: User.

Table Relationship Diagram

