HealthyFood API

Healthy Food API

TEAM A: Jayshree, Patrick, Shurel

Healthy Food API is designed to create a meal plan for a day based on dietary restrictions. The objective of this application is to fetch different meals and let the user add the meals to meal planner. The meals are based on total amount of calories per day, the type of diet and list of ingredients user wants to exclude from his meals.

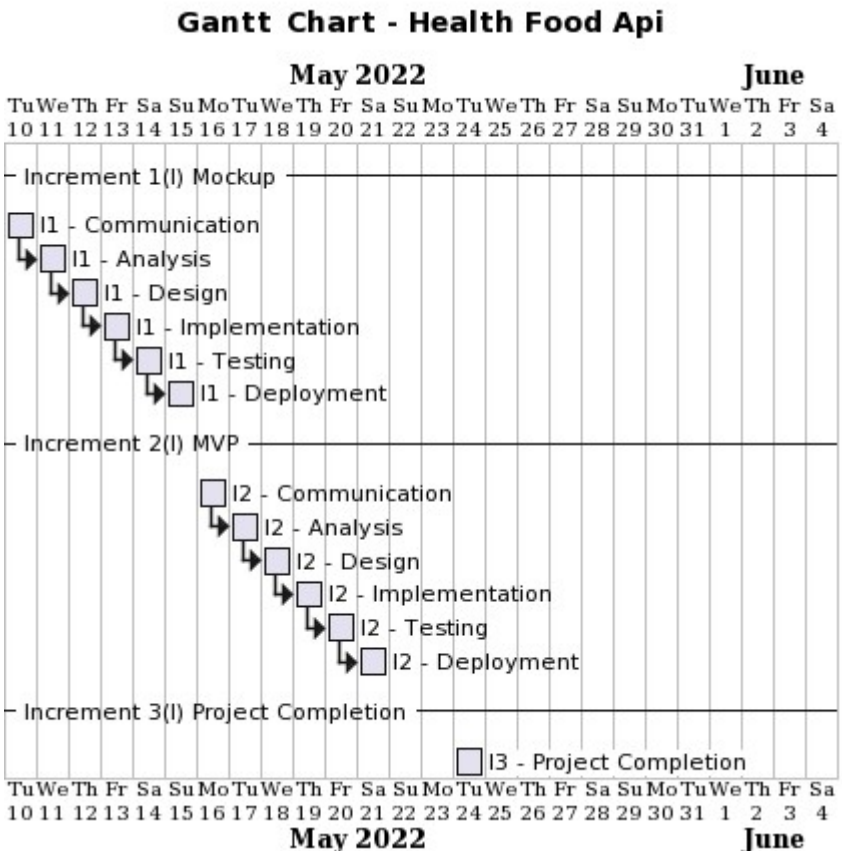
Github repositories:
github.com/ abcpaem/healthy-food-api

github.com/shurelreynolds/healthyfood

AWS Serverless API Endpoint:
arn:aws:lambda:us-east-1:654416051927:function:healthyfoodapi-serverless

AWS MySQL DB:
aayha10rohdri0.cx7cb0cjcfjc.eu-west-2.rds.amazonaws.com

Planning



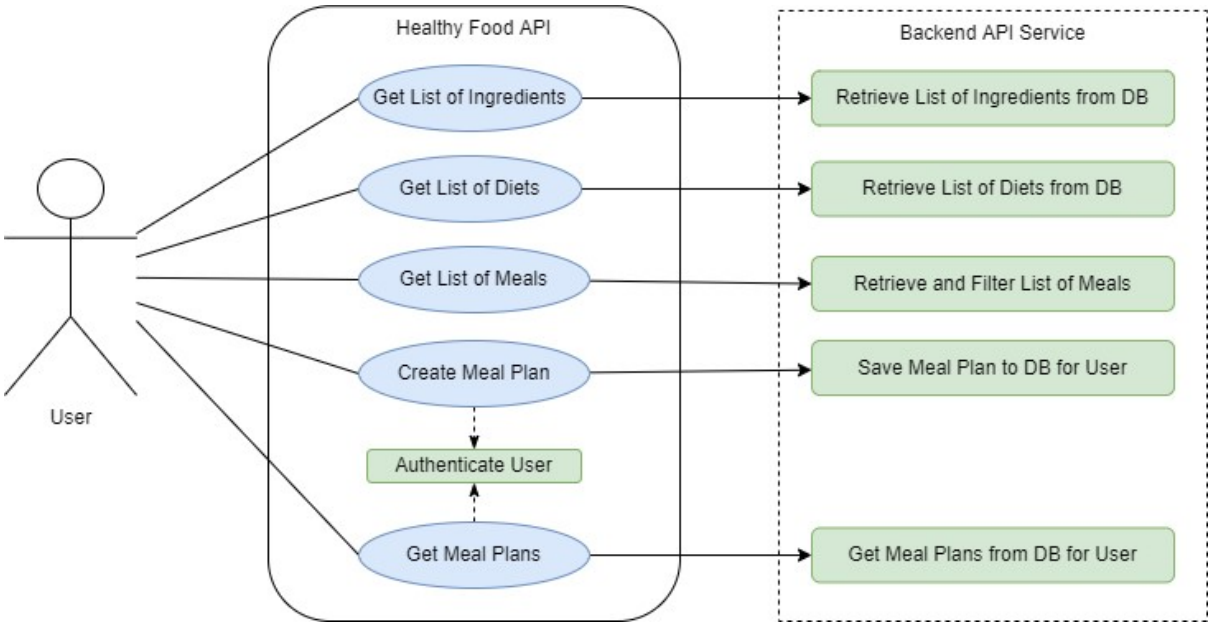
(Shurel)

Research & Analysis

Endpoints in Controller

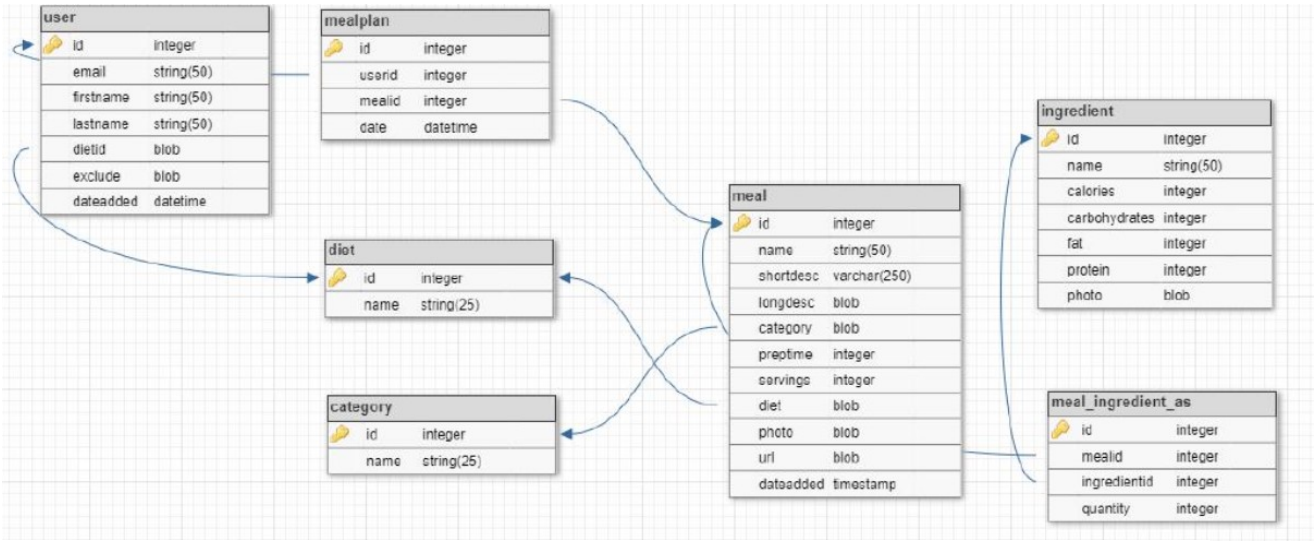
- **Get all ingredients :** localhost:8080/api/v1/ingredient
- **Get all diet types :** localhost:8080/api/v1/diet
- **Get all meal for the user:** localhost:8080/api/v1/meal
    - Parameters : calories, String diet,String exclusions String category
- **Get meal Plan for user :** localhost:8080/api/v1/mealPlans
- **create meal plans for the user :** localhost:8080/api/v1/mealPlans
    - Parameters : Long mealId, Long userId, LocalDateTime dateAdded

User-Case Diagram



This diagram shows the high-level functions and scope of our application. **(Patrick)**

DB Model Diagram

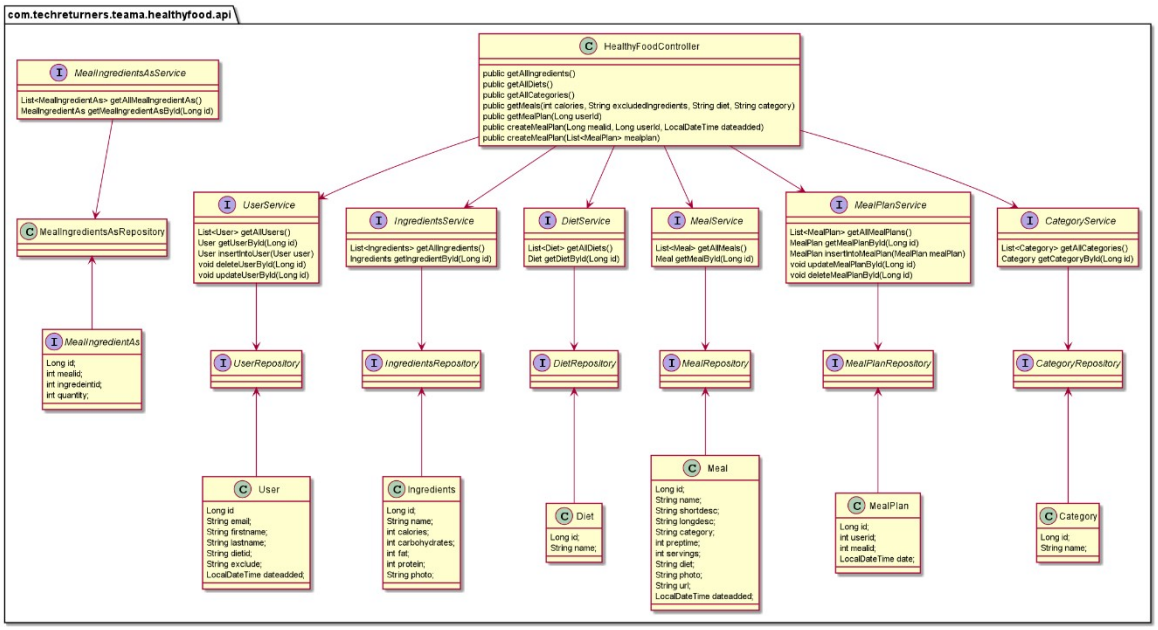


(Shurel)

Class Diagram

The classes are designed in MVC pattern

- Controller will have classes related to endpoints.
- Service will have interfaces to call the CRUD repository methods
- Repository has the interfaces related to CRUD



(Jayshree)

These classes make use of Lombok annotations and JPA

- The MealIngredientAs class will contain all the ingredients for a particular meal.
- We query the MealIngredeientAs excluding the ingredients which matches the Exclusion list.
- The list of Meal will be returned and further we filter it according to the category and diet.
- This list of Meals is sent to the User.
- User can select meals and add them to particular date as a request.
- Now we insert the selected meal and date inside the MealPlan table.
- We retrieve the saved mealPlan according to the userid.

Endpoints in Controller

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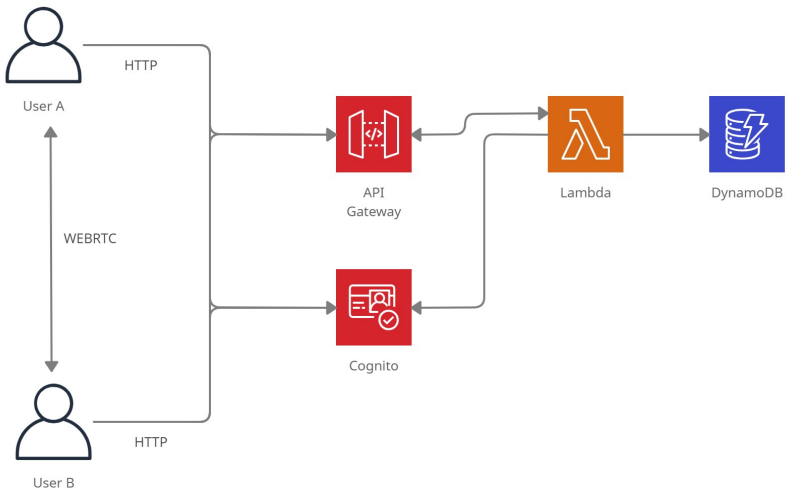
Technologies & Dependencies

- Spring Boot
- Spring Web
- Lombok
- Spring Data JPA
- Mokito
- JUnit 5.8.2
- Maven 4.0
- MySql Database
- Swagger

Extension (Shurel)

- **Healthy Food Serverless API deployed on AWS**

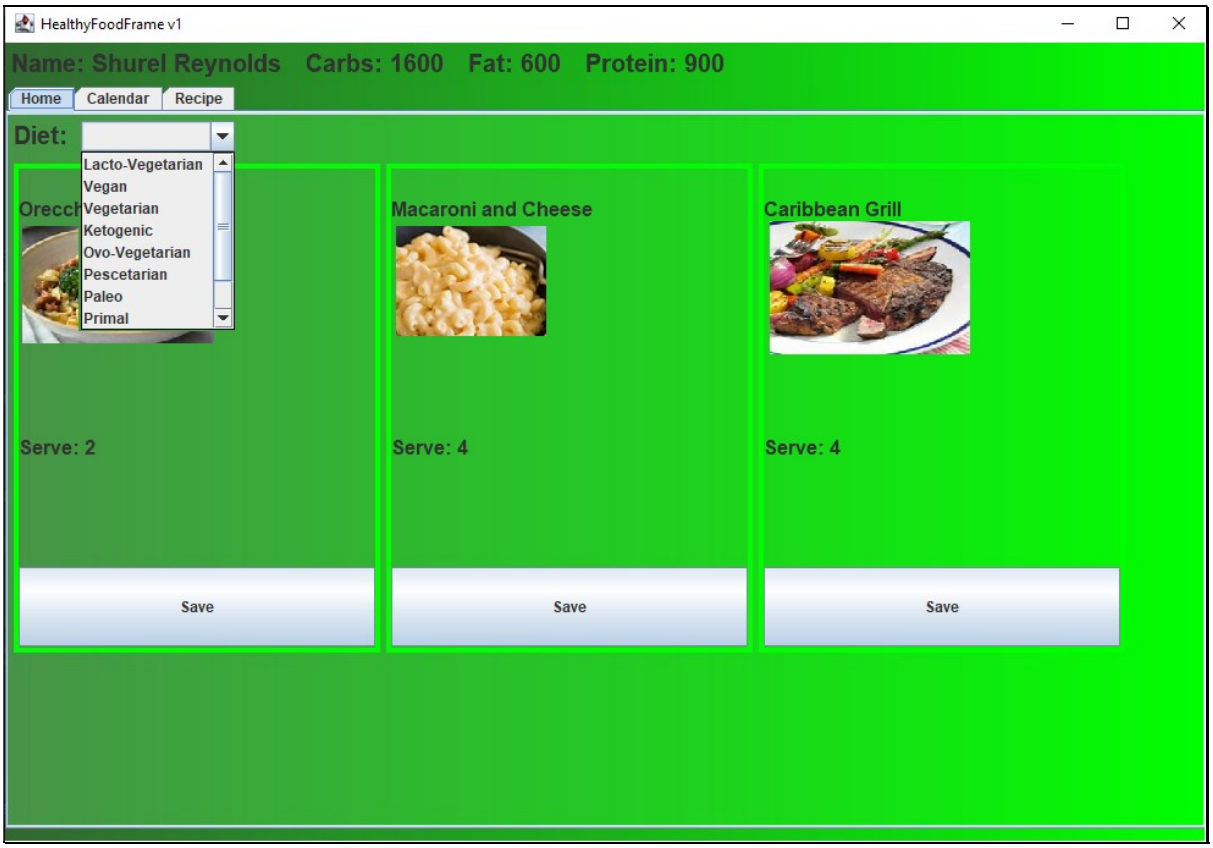


- **Swing UI**

Technologies

- AWS Lambda
- Node.js
- DynamoDB
- Java Swing
- Java HTTPClient

Resources


HealthyFoodFrame v1
Name: Shurel Reynolds Carbs: 1600 Fat: 600 Protein: 900
Home
Calendar
Recipe
Diet:
Lacto-Vegetarian
Vegan
Vegetarian
Ketogenic
Ovo-Vegetarian
Pescetarian
Paleo
Primal
Macaroni and Cheese
Caribbean Grill
Serve: 2
Serve: 4
Serve: 4
Save
Save
Save

Logo (Shurel)