Assignment 3

Daniel Gohara Kamel
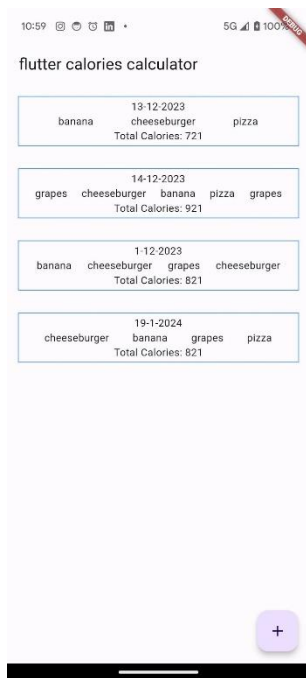
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GitHub Link: https://github.com/DanielKamel2001/Flutter-Calorie-Calculator
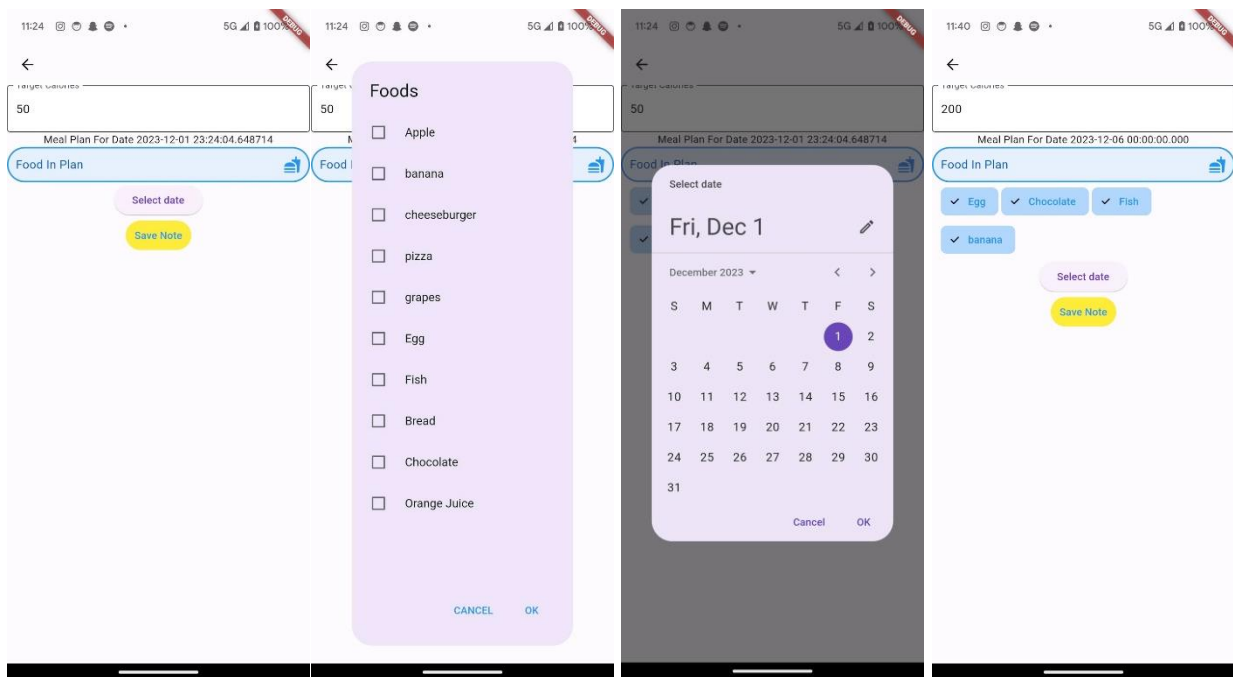
The app is created in Flutter and uses sqflite and two tables of foods and mealPlans. The food table stores food and calorie pairs while the meal plan table contains a date and the selected food. A single date will have multiple entries in the mealPlan table, one for each food chosen. They are linked by the food's id acting as a foreign key. The tables use Food and MealPlan classes to model their rows as object. Each object required a mapping function to take the sql result to and from the class object.
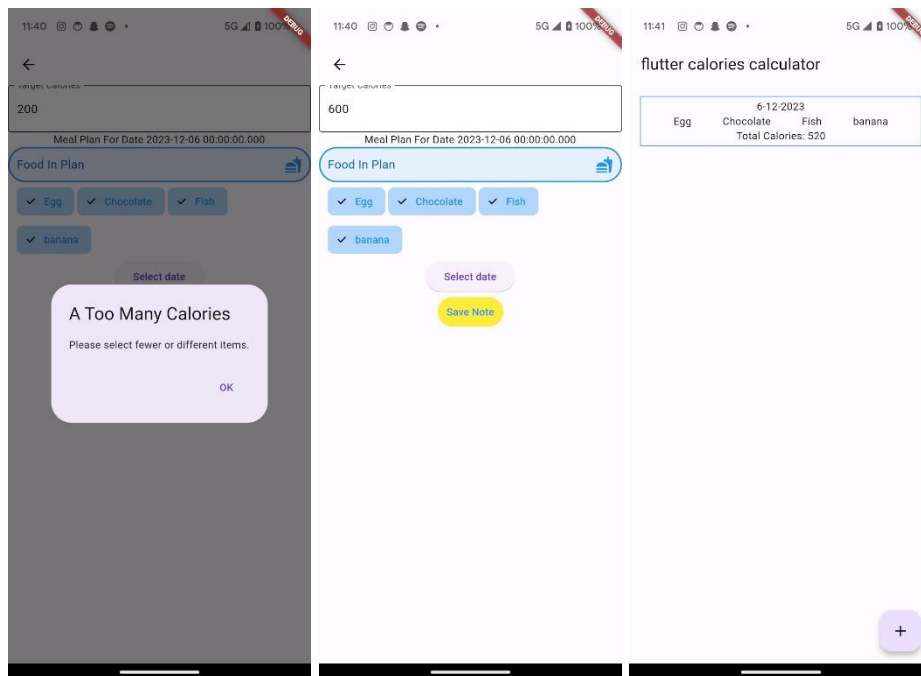

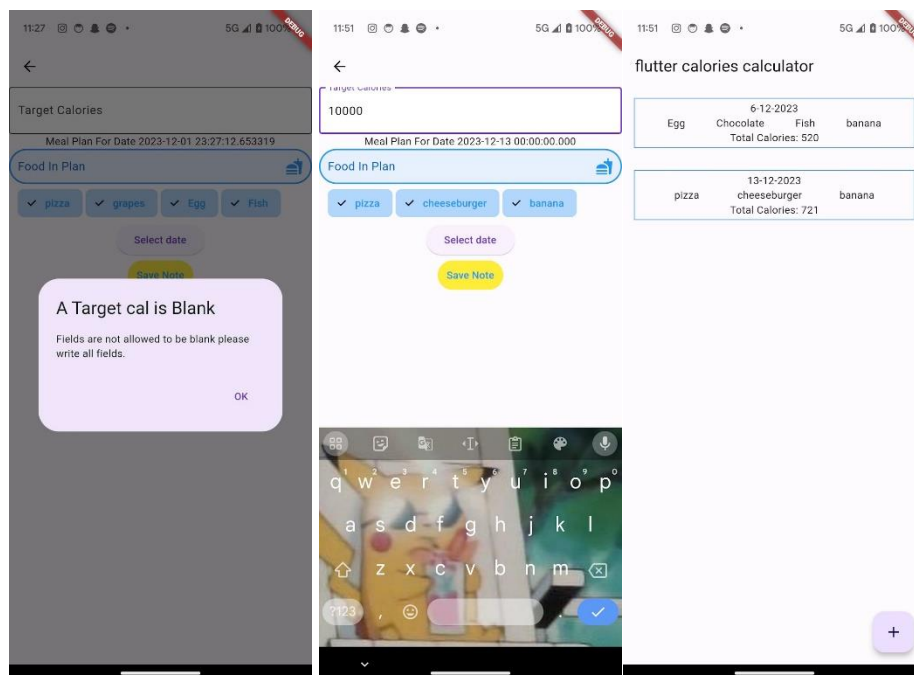The home Page blank with no meal plans.

The list of meal plans displayed on the home page

New Meal Plan page with the food selector, Target Calorie text box, and Date Picker. The Final screen with all selections. The Food picker is implemented using the 'multi_select_flutter' library and creating a custom function to transform objects into selection objects the library can use.

The app will not allow users to create meal plans above there calorie goal. The Text field is checked using a text controller and checking it's validity against the calculated total of the calories of all the foods.

The app will also not allow user to create meal plans without making a target calorie goal. The app also supports multiple meal plans.