# Fitness and Nutrition Buddy Scenario 1

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Fitness and Nutrition Buddy is a mobile app that will eventually allow users to view meal information from restaurants and keep track of the calories they have eaten throughout the day. There will be further support that shows the macronutrient and micronutrient counts for each meal - fat, carbohydrates, protein, sodium, sugar, and vitamins. Users of the app will be able to log their nutritional information each day and select diet plans to match their nutritional goals. Users will also be able to log physical activity like cardio so they can accurately track their net calorie count. Users will also be able to search for nearby restaurants based on their current location, similar to other apps like Yelp or GrubHub.

One of the major features to be implemented in this first scenario is the users ability to view menu information from nearby restaurants and select a meal to add to their diet plan so that they can track their calories. This will be done by utilizing publicly available APIs based on restaurants and meal nutrition information. Additionally, users could search for meal items by utilizing a filter that would only show meal items within a specified caloric range. Users can also view a log of their meals on their profile page and update their meal preferences.

## Scenario “Meal Search and Selection”

This scenario’s features will be most prominent when it is mealtime and users become hungry. Users will open their application, and click an option to search for a meal. The application will respond by tracking the user’s location, and displaying a list of restaurants near the user.

The user has an option to select the radius in which to search for the restaurants, and filter out any restaurants that exist beyond that radius. User then has the option to click on the restaurant name, and it will lead to a different screen where the user can see the menu offered by the restaurant. The food items in the menu will be accompanied by macro data so that the user can see the nutritional value of the food. If the user wishes, there is an option to filter out the food items that have more calories than the user wishes.

The user can select their profile page and have their meal preferences and past meal log displayed. In their meal preferences, the user can edit various fields corresponding to nutritional information. For example, users should be able to set a blacklist filter for meals that contain glucose in them. They can also update their preferences to be recommended meals in high proteins, or low carbs, or no sugar. Included below the preferences will be a meal log that allows the user to view all of their past meals and the net calorie, macronutrients, and micronutrients that they consumed each day.