Project Proposal Group 11

Proposal Overview

This proposal outlines the concept and scope for a networked Android application titled “FitMeal Planner”. The app will help users create personalized meal plans, log their meals, and get real-time nutrition information. It will feature interactive screens, data persistence, and integrate with a third-party nutrition API.

Coming Up With an Idea

App Name: FitMeal Planner

Topic: Nutrition and Meal Planning

Brief Description:

FitMeal Planner helps users manage their diet by planning meals, tracking daily calorie intake, and suggesting recipes based on nutrition needs. The app will store user data locally and retrieve meal and nutrition information via a third-party API such as Spoonacular.

Deciding on Features

Core Features:

1. User Dashboard (Home Screen):

* . View daily/weekly meal plan.
* . Summary of calorie intake and nutrition balance.

1. Meal Planner Screen:

* . Add meals manually or choose from suggested recipes.
* . Search meals by ingredients or dietary tags (e.g., vegan, keto)

1. Nutrition Lookup Screen:

* . Enter a food item to retrieve its nutritional values from an external API.

User Stories:

* . As a user, I want to create and customize my meal plan for each day.
* . As a user, I want to search for healthy recipes based on my dietary preferences.
* . As a user, I want to see the nutrition value of any meal I log.
* . As a user, I want the app to remember my previous meals and preferences.
* . As a user, I want the app to store my meal history locally so I can view it offline.

Creating Wireframes

The app will have at least three main screens:

1. Dashboard Screen:

* . Daily summary of meals.
* . Total calories and nutrients bar.

1. Meal Planner Screen:

* . List of meals with add/edit/delete functionality.
* . Integration with recipe suggestions.

1. Nutrition Lookup Screen:

* . Text input for food item.
* . Display results from nutrition API.