## **Project Plan - Meal Match**

### **Initial Setup**

1. Create a **GitHub repository**.
2. Create a **GitHub Project**.
3. Define **user requirements** in GitHub (Issues, Projects, or equivalent) and assign them to team members.

### **Sprint Workflow**

* Each sprint will focus on a subset of goals.
* Completed goals will be checked off.
* Not all objectives belong in Sprint 1; prioritize incrementally.
* Hold **stand-ups** daily (or every other day):
  + What did you do?
  + What are you working on?
  + Do you need help?
* Each member should contribute regularly (at least every other day).

### **Potential Goals / Features**

* **Authentication**
  + Implement Google Authentication.
  + Add ability to **sign out** from Google.
* **Core Application**
  + Create a **Sign-In page**.
  + Build the **swiping interface** for recipes.
  + Implement a button to **add ingredients to a new list**.
  + Users have the ability to **create multiple lists**.
* **Data & APIs**
  + Obtain API keys for **Ingredients** and **Recipes** (likely two keys).
  + Set up database tables linking user accounts (via Google) to selected ingredients.
  + Enable users to **add/remove ingredients** from their list.
* **UI/UX**
  + Basic swipe interface (initially just text, later upgraded with images).
  + Improve styling to mimic a **swipe-based dating app** experience.
* **Documentation & Testing**
  + Create and maintain a **README** (critical for onboarding).
  + Document codebase thoroughly.
  + Write tests for all new functions/classes (e.g., handling missing users, invalid data).

### **Sprint 1**

In this sprint the main goal is to get the project started and implement the basic features. We are prioritizing functionality over everything else. We want to make sure we have set up the database correctly, identified and integrated the API’s we are using, and have basic features started. Tasks to be completed:

**Sprint 2** Setup Githun Project with Kanban Board

* Docs directory integrated into Github
* Product & Sprint 1 Backlog Burnup
* Google Account sign-in works only with registered test users for unverified apps
* Add CRUD logic for an Ingredient
* Add CRUD system for maintaining a list of ingredients for a user
* Ingredients Button
* Search Bar
* Add an API for searching Ingredients
* Add an algorithm to find recipes responding to one ingredient
* Add an algorithm to find recipes responding to one ingredient list
* Tinder like Swipe Search For Recipes
* Save Favorite Recipes to a List for Later Viewing
* Filter Recipes with a Customizable Number of Missing Ingredients

### **Project Completion**

**Step 8: Moving forward**

* **Recommendation System**
  + Implement a **scoring system** for ranking recipes.
  + Display top-scored foods one at a time.
  + On “Like”: show recipe steps, highlight missing ingredients.
  + On “No”: show next best recipe.