

# Recipe Finder Website

## Group 0x

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Semester Project  
Software Development Methods & Tools  
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# **I. Milestone 1 - Project Proposal**

## **I. Description**

A website that logs ingredients in your household and finds recipes with what you have. Many ingredients go to waste from not being used and having an app that keeps track of what you already own and how it can be used can help with using up ingredients and not overspending on ingredients you already own. Along with logging what you already have, recipes you want to make can let you know what ingredients you need.

We can also retrieve item locations for everything needed to be purchased and plan a route that would allow the customer to purchase them the fastest (Will only work at the Boulder Target store, if time allows can be expanded to other Targets). Many new shoppers are not familiar with item locations in grocery stores and often waste a lot of time walking back and forth to find what they need if they are not familiar with the store or are looking for an item they might not need not purchase often.

## **II. Vision Statement**

A responsive website that works on a mobile device or the computer, that can take inputs for what ingredients the user currently has available and generates recipe ideas along with a list of items they need.

## **III. Motivation**

Many of us love cooking, while eating healthy and cheap. We would like to cut out as much busy work involved in cooking, such as buying ingredients, and knowing what you already own. An app such as this could assist us in enjoying our cooking.

## **IV. Risks**

1. Ability to push and pull from online databases
2. Ability to meet as a group
3. Lack of ability and skill
4. Overshooting with a project too big for this semester

## V. Risk Mitigation Plan

1. Being able to adapt and adjust our project and the way we handle the project.
2. Set up multiple meeting times and have some flexibility to meet in smaller groups.
3. If some team members are more experienced in some methods, being good teachers for peers will be helpful.
4. Work in sections and create smaller levels/goals to accomplish.

## VI. Version Control

Figure 1,2,3 are screenshots showing our three repositories with shared access.

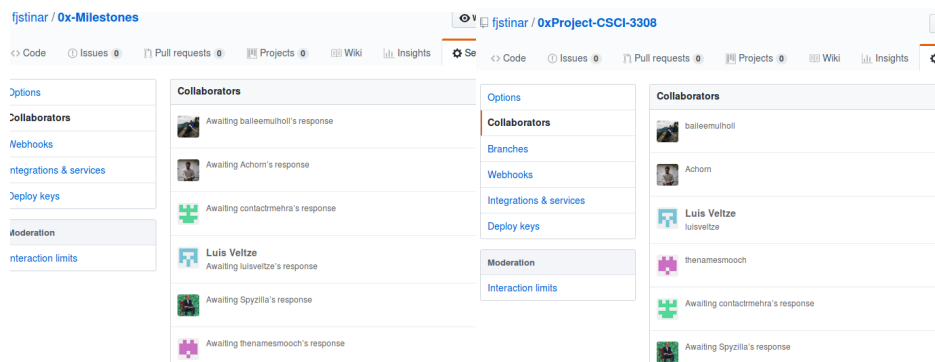


Figure 1: Milestones Repository Figure 2: Main Project Repository

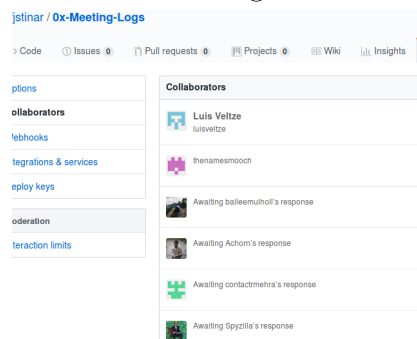


Figure 3: Meeting Logs Repository

## **VII. Development Method: Agile**

While we develop the project, we will be open to pivoting or shifting in order to make a better project.

## **VIII. Collaboration Tools**

1. Group text
2. Google Drive
3. Slack
4. Github
5. Overleaf

## **IX. Proposed Architecture**

1. **Backend technologies:** PHP, Python
2. **Middleware:** node.js
3. **Frontend:** HTML, CSS, Javascript

## **II. Milestone 2 - Project Tools & Agile Methodology Summary**

### **I. Project Management Tool**

Group 0x is using Trello to lay out all of the different tasks for the project and assigning the tasks to each person. 0x Group chose Trello because of its simple user interface and Trello's ability to create and assign tasks efficiently. Trello is also free.

### **II. Requirements**

Front end user interface (website), user accounts, recipe-grabber, store route planner, backend data storage.

### **III. Project Plan**

1. Build HTML file for the structure of the website
2. Build CSS file for the design of the website
  - (a) Bootstrap
3. Build JavaScript file for the design of the website
4. Create and integrate tool for route planning
  - (a) Most likely a JS tool that uses Target item URL's to get that item's location, then using a handmade map of the Boulder Target store it can plan the shortest route by combining that data
5. Start using SQL to research and start making the website database.
6. Start making a website crawler to go through websites to grab item numbers, recipes and item types

## IV. Sprint Plans

### 1. By Tuesday 10/16

- (a) Item location grabbed done/significant progress
- (b) Have completed or have a better grasp on the website crawler
- (c) Have database table done for recipe information
- (d) Choose initial bootstrap template to use for site

### 2. By Thursday 10/18

- (a) Start on store map

### 3. By Tuesday 10/23

- (a) Have store map done, progress on pathfinding algorithm

### 4. By Thursday 10/25

- (a) Work on pathfinding algorithm

### 5. By Tuesday 10/30

- (a) Route planner done, focus on integration to website with ease of use

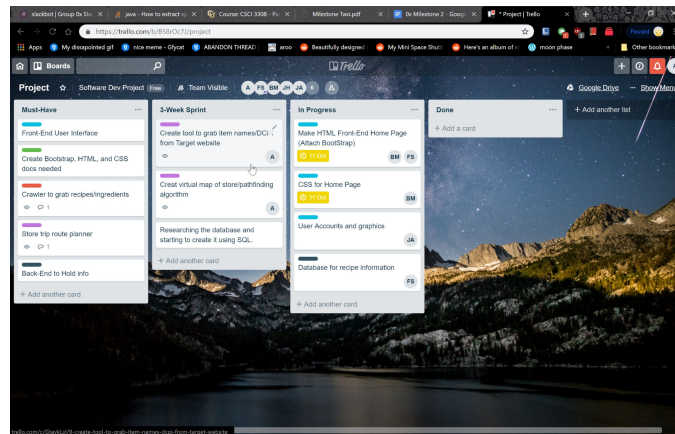


Figure 4: Project Dashboard