



Team 5 - Recipe Builder

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1/28

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Users and Environment

Users - 20 to 60 year old people who need help creating recipes and want to cook. Average tech knowledge.

Environment - The general environment that this application will be used in is a household kitchen.

Introducing...

Name: Jeffy Hope

Age: 43 Years Old

Technical Expertise: Average

Jeffy is a Gym teacher who loves spending time at work. In fact he spends so much time at work he rarely has time to meal prep and come up with recipes. As a result, he resorts to fast food and frozen meals. Jeffy is losing hope. But! He's really excited for a chance for change and wants to start eating healthy. He spends a decent amount of time on his phone and laptop from sending emails at work, to setting up his canvas page for his students.





Use Scenario - Nominal Use

Nominal Use-

Jeffy Hope goes to make a meal and inputs what ingredients he has. This enables him to find recipes that he can tailor to his tastes by filtering based on cuisine and modifying the amount of protein. He successfully makes food for the next three days so that he doesn't have to eat out for lunch.

Paper Prototype - Jeffy

Input Ingredients

☰ Recipe Builder

Add Ingredients!


Ingredient


Amount in #

Measurement 


+ Add Tag

Potato 


Flour 

Garlic 

Noodles 

Egg 

Season Sa.. 

Basil 

Paper Prototype - Jeffy

Recipe page

 Recipe Builder

Recipes

 My Recipes

Meal Plan

 Grocery List

Your Saved Recipes

6 recipes saved • 4 tried

Chicken Stir Fry

A quick and healthy Asian-inspired dish with fresh vegetables

 25 mins  4

 I Made This



Caesar Salad

Classic Caesar salad with homemade croutons and dressing

 15 mins  2

 I Made This



Banana Bread

Moist and delicious banana bread perfect for breakfast

 60 mins  8

 I Made This



Pasta Carbonara

Creamy Italian pasta with bacon and parmesan

 20 mins  4

 I Made This



Greek Salad

Fresh Mediterranean salad with feta cheese and olives

 10 mins  4

 I Made This



Chocolate Chip Cookies

Classic homemade cookies with gooey chocolate chips

 30 mins  24

 I Made This



Paper Prototype - Jeffy

Recipe Filtering and Modification

 [Recipe Builder](#)

[Recipes](#) [Meal Plan](#) [Grocery List](#)

Your Generated Recipes

AI-powered recipes tailored to your preferences

Chicken Stir Fry

A quick and healthy Asian-inspired dish with fresh vegetables

🕒 25 mins 🍽️ 4 servings

Ingredients

- 2 lbs chicken breast, sliced
- 2 cups broccoli florets
- 1 bell pepper, sliced
- + 3 more...

Caesar Salad

Classic Caesar salad with homemade croutons and dressing

🕒 15 mins 🍽️ 2 servings

Ingredients

- 1 head romaine lettuce
- 1/2 cup parmesan cheese
- 1 cup croutons
- + 2 more...

Banana Bread

Moist and delicious banana bread perfect for breakfast

🕒 60 mins 🍽️ 8 servings

Ingredients

- 3 ripe bananas, mashed
- 1/3 cup melted butter
- 1 cup sugar
- + 4 more...

Ask for Recipe Modifications

Currently modifying: **Chicken Stir Fry**

E.g., 'Make it vegetarian', 'Add more spices', 'Reduce the cooking time', 'Make it gluten-free'...

 [Apply Modifications](#)

Quick suggestions: [Make it healthier](#) [Double the servings](#) [Add more protein](#) [Make it spicy](#)

Introducing...

Name: Jack Dawson

Age: 21 Years Old

Technical Expertise: High

Jack is a Software Engineering student at Michigan Technological University. He's in his final semester of his undergraduate degree. He knows a lot about technology. He's had many different classes that have involved technology. Jack thinks he's really smart and sometimes that can lead to him quickly clicking through pages without reading what's on the screen because he's used to industry standard practices. Jack is excited to join the workforce and get a job. He loves gaming on his PC and is always on his phone. He doesn't like to cook because he never knows what to make and is excited to be able to have AI help him.





Use Scenario - Error Handling

Error Handling-

Jack Dawson goes through the steps to produce a recipe and decides to not click the cook button. Because of this, he ends up having the wrong amount of ingredients and doesn't have what he needs for his next meal. He updates his ingredients list and gets a grocery list to get the ingredients for his next meal.

Paper Prototype - Jack

Recipe Cook Button and Ingredient List

 Recipe Builder

Recipes

 My Recipes

Meal Plan

 Grocery List

Your Saved Recipes

6 recipes saved • 4 tried

Chicken Stir Fry



A quick and healthy Asian-inspired dish with fresh vegetables

 25 mins  4

 I Made This

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Classic Caesar salad with homemade croutons and dressing

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Moist and delicious banana bread perfect for breakfast

 60 mins  8

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Pasta Carbonara



Creamy Italian pasta with bacon and parmesan

 20 mins  4

 I Made This

Greek Salad



Fresh Mediterranean salad with feta cheese and olives

 10 mins  4

 I Made This

Chocolate Chip Cookies



Classic homemade cookies with gooey chocolate chips

 30 mins  24

 I Made This

Paper Prototype - Jack

Recipe Cook Button and Ingredient List

☰ Recipe Builder

Add Ingredients!

Ingredient

Amount in #

Measurement ▾

+ Add Tag

Potato



Flour



Garlic



Noodles



Egg



Season Sa..



Basil



Paper Prototype - Jack


Grocery List

Recipe Builder

Recipes Meal Plan  Grocery List

Your Grocery List

Items you need for your selected recipes

 10 items remaining	0 / 10 complete
Milk 1 gallon	Mark Bought
Eggs 12 count	Mark Bought
Bread 1 loaf	Mark Bought
Chicken Breast 2 lbs	Mark Bought
Tomatoes 6 pieces	Mark Bought
Lettuce 1 head	Mark Bought
Butter 1 lb	Mark Bought
Rice 2 lbs	Mark Bought
Olive Oil 16 oz	Mark Bought
Bananas 6 pieces	Mark Bought

Mark All as Bought



Usability Goals and Concerns

Goals: Make a product that is easy to understand and navigate for the user.

Make little to no contact with the ai agent for the user.

Make sure macros and calories are displayed on the recipes.

Concerns: Making the ai non invasive whilst still getting proper input from the user to the ai.

Making sure that the ingredients are tracked properly and that they are in standard units that the user understands.