

CSE 110 Group 39 Coffee Shop Project Pitch

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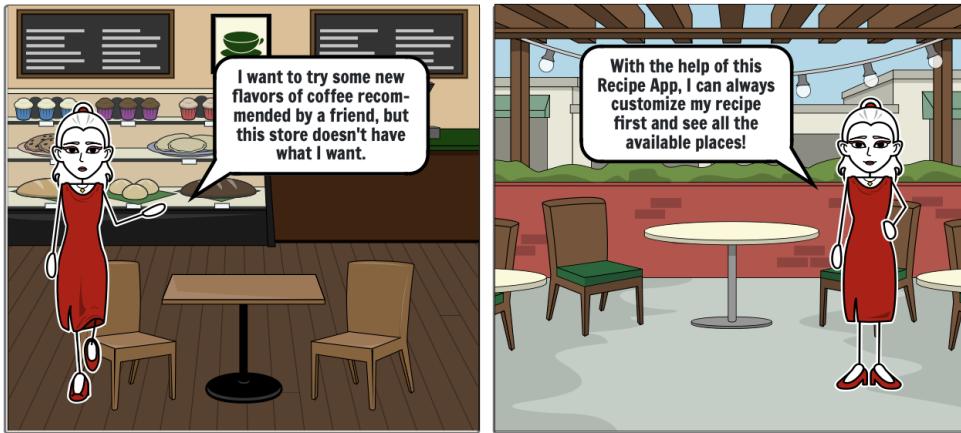
Statement of Purpose

1. For a hectic society where everybody pays attention to work and study, coffee may be their necessity not only for energizing spirits but also for satisfying the demands for good-tasting drinks. However, our team found that there is not a web app that is able to meet everyone's requirements, because everybody has their taste preferences, and it is hard for them to find coffee shops that are exactly perfect for them. Therefore, we want to be the first team to design and implement this app.
2. Our mission is to create an APP that allows users to find coffee shops on campus based on their recipes. The APP has three main features.
 - Create Drinks. It is to create drinks. When users land on a coffee creating page, they could choose different kinds of coffee, topping, flavorings. After choosing their drink, users can see the closest coffee shops with that drink near them.
 - Save recipes/Favorite. Users landing on the save recipes page, they will be able to view or modify the recipes.
 - Search, users land on the search page, they could choose to search online or offline. When users search online, they can save other's recipes to the local recipe page or upvote other's recipes. When users choose offline, they can search the desired saved recipe by ID or name.

User Personas

Alice, Age 21, College Student.

I like to drink coffee and try seasonal flavors whenever the coffee shop introduces something new. I want to use the APP that allows me to customize and save different recipes so I know which place is available.



Bob, Age 34, Software Engineer

As a software engineer, I drink coffee because it keeps me energetic while working. However, I don't want to spend much time ordering and selecting different options. I want the APP to save my past recipes so I can order my favorite drinks quickly while in the store.

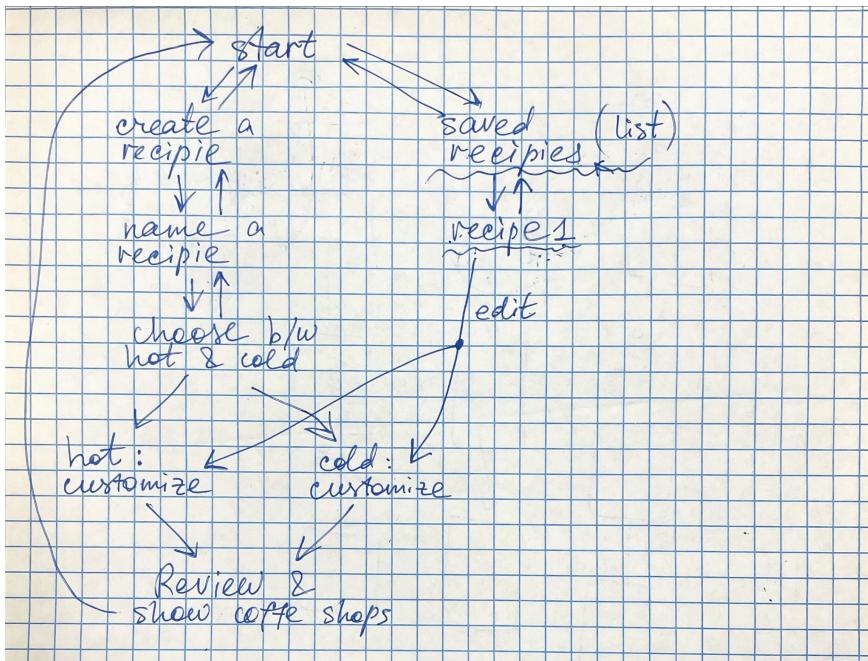
Anna, Age 38, UCSD professor

I go to campus every day to lecture and to do my research. I enjoy having a cup of coffee during my breaks. I like to go to different coffee spots because they have a different selection. I think it would be convenient to save my selections in an app to keep track of what I've really liked.

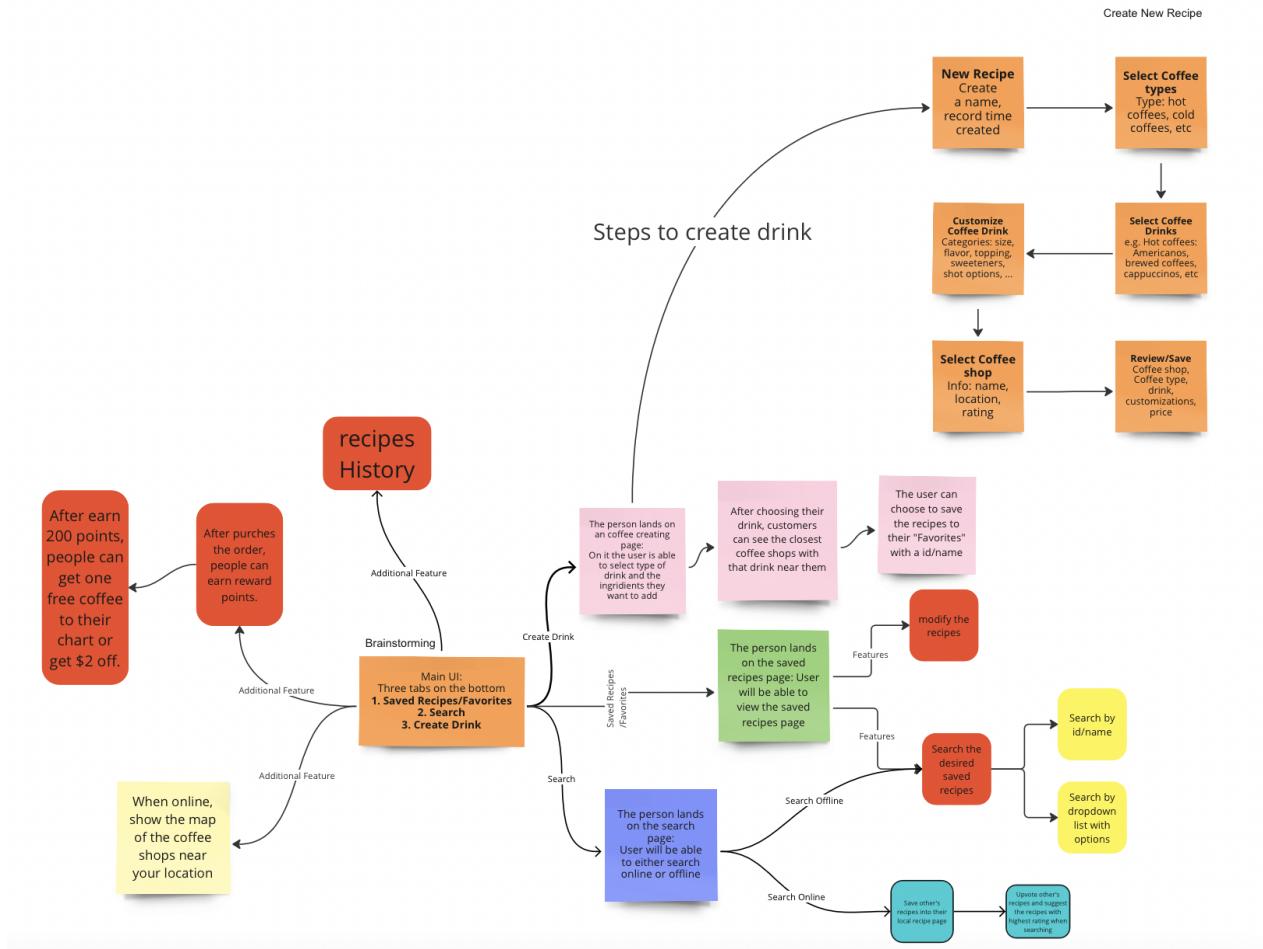
Proposed Solution

Here we present our Coffee Recipe Web app in forms of system diagram and also basic prototypes.

- System Diagram



- [Wireframes](#) and [High-fidelity prototype](#)



Start Page:



Create Recipe:

The image shows four screens illustrating the "Create Recipe" process:

- MacBook Air - 2:** A text input field labeled "Name Your Recipe" with a placeholder "*Required".
- MacBook Air - 3:** Two placeholder image areas: "Hot Drink Pic" and "Cold Drink Pic", each with a "Next >" button below it.
- MacBook Air - 4:** A customization screen with sections for "Choose Your Drink" (dropdown menu showing "Dollars", "Cappuccino", "Latte", "Expresso"), "Size" (dropdown menu showing "SM", "M", "L"), and "Add-Ons" (checkboxes for "Caramel", "Sugar", "Extra Shot", "Milk", "Cream", "Water"). A "Save and Continue" button is at the bottom.
- MacBook Air - 7:** A review screen titled "Review the Recipe" for "Hot Coffee". It shows "Drink Type: Latte", "Size: Large", and "Add-Ons" (checkboxes for "Caramel", "Sugar", "Extra Shot", "Milk", "Cream", "Water"). On the right, there's a section for "Available Coffee Shops" listing "Starbucks", "Blue Bottle", and "Coffee Shop". A "Confirm" button is at the bottom right.

MacBook Air - 4

Time to Customize!

Choose Your Drink

Drink Type: Latte

Size

SM M L

Add-Ons

- Caramel
- Sugar
- Extra Shot
- Milk
- Cream
- Water

Save and Continue

MacBook Air - 7

Review the Recipe

Hot Coffee

Drink Type: Latte

Size: Large

Add-Ons

- Caramel
- Sugar
- Extra Shot
- Milk
- Cream
- Water

Available Coffee Shops

- Starbucks
- Blue Bottle
- Coffee Shop

Confirm

Saved Recipes:

The image shows two side-by-side screenshots of a web application interface. The left screenshot, titled "MacBook Air - 5", displays a list of "All Saved Recipes". It shows three items: "Recipe One" (Shop Name), "Recipe Two" (Shop Name), and "Recipe Three" (Shop Name). Each item has "View/Edit" and "Remove" buttons. A search bar at the top right is labeled "*Search". The right screenshot, titled "MacBook Air - 6", shows a detailed view of "Recipe One". It includes fields for "Drink Type" (set to "Latte") and "Size" (set to "Large"). Under "Add-Ons", there is a list of options: Caramel, Sugar, Extra Shot, Milk, Cream, and Water, each with a checkbox. An "edit" button is located to the right of the size dropdown. At the bottom right is a "Save" button.

Note that this is our first version of prototype and we will make some other modifications and iterations as we discuss and start to implement specific features.

Two most important components in our web would be **Create Recipe** and **Saved Recipes**. While creating a new recipe, users can customize their own drinks based on size, add-ons, type, etc. and then our system will display all the available coffee shops that contain the specified drink.

While users are viewing all saved recipes, there will be a list in chronological order which allows them to view, edit, or remove the selected recipe. In addition, in the offline mode, they can search and locate the recipe by name.

Risks

1. Technical work

This project requires web development work that not all members are familiar with yet. However, we believe that we will learn the appropriate skills necessary for our project throughout the course. Possible learning methods include lectures, labs, and office/tutor hours.

2. Assumptions

There should be no glaring assumptions. We are mainly using web development tools, so the UI and main functionality of the app should fit together nicely. As our app's main algorithmic concern is sorting and searching, design solutions certainly exist.

3. Availability

Since all members have other classes other than CSE 110, the amount of time that each member has for this project may vary. Thus we have to avoid the situation where a 10x programmer tries to “cover” the members who don’t have much time, but end up doing all the work. In order to do so, we need to split up the work reasonably so that all members need to contribute to the project, but can finish their part on time.

Rabbit Holes

1. Compatibility:

- Mobile

Considering the amount of extra work and testing that is required to smoothen the mobile experience, we have deemed mobile-compatibility to be a rabbit hole. Our app is strictly a desktop app, and will be constructed and configured as such. As a web page, mobile usage might be supported but will not be optimized.

2. Features:

- GPS

Displaying coffee shops near the user’s location is an interesting feature that could boost our app's convenience. However, doing so would require access to the user’s geolocation and additional pathing algorithms, thus, we have deemed GPS features to be a rabbit hole. GPS features will not be supported.

- Illustrations

Considering the amount of time that needs to be spent fleshing out the main functionality of our app, and the lack of artistic talent among group members, we have deemed illustrations to be a rabbit hole. Our app will not support detailed illustrations of coffee choices and shops, or will only show basic images.

- Rewards

Due to the sheer amount of work needed on main functionalities, reward points features will not be worked on unless time allows.

- Online Recipe

Allowing the users to view and download others' recipes will definitely increase their experience, but we have to keep in mind that for this project, we should consider everything local first. Hence the ability for the user to download other's recipes is viewed as a rabbit hole and this feature will not be worked on unless time allows.

3. Data

- Coffee Shops

Considering the abundance (or lack of) real-world coffee shops for our app to function, and the need for a reliable way to update our data of coffee shops and their ingredients, we have deemed the use of real-world data to be a rabbit hole. Our database group will be in charge of coming up with an adequate list of coffee shops, supported ingredients, etc. Doing so will make testing easier, but will also leave a framework for the integration of real-world data, if the need arises in the future.

- Ingredients

For the above reason, we will be making up our own database with a list of coffee shops and ingredients, but this will be limited to the general types of coffees and ingredients. Also since we will be using dropdown boxes for the user to create their own coffee, the user will be limited to the ingredients we have listed up there, which creates some constraint to the user.

Appetite

We have about 5 weeks to complete our app by the end of the final. First, we break our team into two groups, frontend and backend.

In the first 3 weeks, the two teams will code independently on the existing project plan. At this point, we still have time to make adjustments to the app structure if there are any changes needed. Any adjustments that are suggested must be considered for its simplicity and its applicability within the last 2 weeks time frame.

In the last 2 weeks, we will combine the two teams and interface the frontend and backend code to make the project work. It should be noted that any major changes to the existing project structure at this time will not be considered. Due to the time constraints our app could seem bare if suggested changes aren't reasonable with the time frame remaining for the final version of the app.

Since we are limited to about 5 weeks of work, our app is constrained to only certain features. Our app will be restricted to local data only, meaning we won't consider any coffee shops that are beyond those of our campus. This constrains the solution as some users may want to consider coffee shops off campus but nearby. Additionally, the overall aesthetics of the app may be impeded since the time constraints for the final shipment of the app require the group as a whole to focus heavily on functionalities rather than flashy and stunning UI visuals. As a result, the lack of aesthetics may deter people from using this app in their daily lives.

No Gos

- Users are not allowed to “text” the ingredients but can only select from our provided drop-down lists.
- Users cannot order their coffee on our app. The app should be treated as a favorite coffee collection.