

Tasty Talks
ITSC 3155 Final Project Report

Prepared by: Samuel Baynes, William Bermel, Ian Boyd,
Olivier Deschamps, and Sushmita Hari

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1 Introduction

This report chronicles the inception and development of Tasty Talks, a specialized web forum for UNC Charlotte students, responding to a specific need within our community. Recognizing that many students are navigating the world of cooking for the first time, the platform emphasizes regional recipe categorization. This deliberate approach is grounded in our belief that students can significantly benefit from shared insights and techniques when exploring global cuisine. Tasty Talks serves as a vital resource, fostering connections and providing a space for students to seek advice, enhance their cooking skills, and embark on a flavorful journey inspired by dishes from around the world. Developed through an agile-style design sprint, the report meticulously explores project resources, the plan's intricacies, system design, user tests, and reveals valuable lessons learned.

Our commitment to crafting a user-friendly space for UNC Charlotte's culinary community is exemplified in Tasty Talks, a testament to collaborative ideation and innovation. As we explore the specifics of each project phase, we unveil the journey that brought this distinctive web forum to life, fueled by the conviction that Tasty Talks addresses a critical need, fostering a supportive environment for students eager to enhance their culinary prowess. This first section introduces our web application by outlining Tasty Talks' product vision, describing our target customer, defining our scope and objectives, and discussing ethical considerations we took into account for designing our application.

1.1 Product Vision

FOR college students that enjoy cooking

WHO want to converse and connect with like-minded foodies and improve their culinary skills,

TastyTalks is a Food Forum

THAT provides a platform for amateur cooks to learn and communicate with other amateur cooks

UNLIKE CookingBites and DiscussCooking,

OUR PRODUCT focuses on providing college cooks, of all skill levels, with opportunities to view and try different recipes from around the world, share their own, and learn from each other, all while implementing a modern styled user interface.

1.2 Customer Description

Tasty Talk's target audience consists of UNC Charlotte students that have an interest in cooking and eating food from all over the world. Students with all levels of culinary skills will benefit from using our application. The application tailors a student's role based on their culinary skills. Novice cooks can learn from experienced cooks by reading their recipes and techniques, and by connecting with peers at a similar skill level. Seasoned cooks can engage in recipe discussions with fellow experts and receive valuable feedback on their dishes from other students.

The following two personas were created to illustrate ideal users of Tasty Talks. **Figure 1.21** displays a novice cook that's learning to cook. **Figure 1.22** displays the persona of a more experienced cook looking to learn about foreign cuisines.

Persona 1 Alex, freshman CCI major at UNC Charlotte

Age: 19



Alex recently moved away from home to study Computer Science and doesn't care for the costs of the food options on campus. Cooking was never a big part of his life until he started living on his own in a college dorm. Cooking was initially a daunting task for Alex, but they've recently discovered an interest in preparing their own meals. Simple dishes like pasta and stir-fries are now part of their repertoire.

Goals:
To become a more skilled and confident cook, capable of preparing a variety of dishes without breaking the bank.
Alex aims to not only cook delicious meals but also create balanced and nutritious dishes.

Challenges:
Cooking in a college dorm often means dealing with limited kitchen equipment and space. Alex may find it challenging to prepare diverse dishes with minimal tools and a small kitchen area.

Figure 1.21: Persona 1 - Alex, a novice cook.

Persona 2

Kappa, junior International Business major at UNC Charlotte



Age: 21

Kappa is originally from Beijing, China. She is pursuing a degree in International Business and is passionate about exploring global cuisines. Linda's deep love for cooking comes from growing up in the kitchen by her mother's side. She enjoys experimenting with ingredients and flavors to create traditional and fusion dishes. She believes that food is a universal language that bridges cultures. She is well-versed in Chinese cuisine and is eager to expand her culinary horizons.

Goals:

- To learn about cooking techniques and dishes from students of different nationalities.
- To begin a career that allows her to travel around the globe and learn more dishes along the way.

Challenges:

- Cooking the high level dishes she craves on a student budget.
- Navigating language barriers to effectively communicate with other international students.

Figure 1.22: Persona 2 - Kappa, an experienced cook familiar with cooking Chinese food.

1.3 Project Scope and Objectives

Originally, we believed that a forum for professional chefs from all over the world to interact with each other, where ordinary or non-professional cooks could comment, talk to other ordinary cooks, and ask professional chefs questions, would be a unique and useful platform for individuals to learn and gain insightful life skills. However, we felt creating a minimum valuable product (MVP) for such a forum wasn't achievable, given our limited time and lack of access to professional chefs. So, we took our initial ideas, narrowed the scope, and refocused our target audience to the UNC Charlotte student body. Tasty Talks focuses on providing UNC Charlotte student chefs, of all skill levels, with a place to interact with other students about recipes from around the world.

The key objectives for our student chef web application forum MVP include:

1. List recipes
 - a. Create a feed of student created recipes that can be filtered by region
 - b. Include brief details like pictures, regions, and tags on the feed.
2. Allow for community conversation around a recipe
 - a. Create pages showcasing recipe details
 - b. Have a comment section that can be arranged by regional contributors
3. Question forum
 - a. Provide a page for students to ask the community question

4. User accounts
 - a. Create a registration process
 - b. Create a login capability

1.4 Ethical concerns

When designing the Tasty Talks web forum, we set out to establish a welcoming platform that adheres to strong ethical practices. Two potential ethical concerns that came to mind when creating our culinary and forum based platform is rightful ownership of recipes and bullying.

Recipes are often passed down from generation to generation or through word of mouth. But, they can also easily be shared via cookbooks and officially licensed websites. The latter form of sharing recipes often comes with copyright statements and laws. While we want our users to feel free to share all types of recipes, including ones crafted on their own and recipes from friends and family, we do not want our users to copy and paste recipes from sources without proper authorization from the owners of said recipes. In order to avoid users posting unauthorized recipes we put a code of conduct statement on the “Create new Recipe” page, found above the “Submit” button, that reads, “By submitting this recipe, you acknowledge you are authorized to share the recipe by the owner, you give proper credit to the original author, or you are the owner.” This statement not only promotes ethical practices relating to rightful ownership, it also puts the responsibility of the post on the user.

Secondly, Tasty Talks is designed to be a platform where users feel free to express their thoughts, ask questions, and communicate with others in a safe and welcoming manner. The majority of blogs or comment sections on typical social media platforms will showcase some of the most divisive and detrimental rhetoric, and often leads to bullying. Given Tasty Talk’s forum based design, we are well aware of the potential for this same type of harmful interactions. We wish to avoid this from occurring, and uphold UNC Charlotte’s high standards of conduct relating to anti bullying and establishing an accepting culture. Therefore, we will also provide a code of conduct on the registration page that lets users know that under no circumstance will bullying be acceptable behavior on the Tasty Talks forum. In the future, we feel a moderator could flag and remove unacceptable content from the platform.

Once the interface goes live, additional ethical concerns may come to light. But, we feel focusing on preventing users from posting stolen content and bullying on the Tasty Talks platform, from Day 1, are the most important ethical stances we can establish for a safe and moral platform.

2 Project Resources

The following section discusses the resources required for developing our application, including the group members, hardware and software resources used to create and run the program, and any other special resources we used.

2.1 Group Members

The group members for Tasty Talks (Group 3) include:

1. Samuel Baynes
2. Will Bermel
3. Ian Boyd
4. Olivier Deschamps
5. Sushmita Hari

2.3 Hardware and Software Resources

Our web application was created using Firestore & Firebase, Node JS, Vue, and VS Code. Additionally, we shared and updated our code using GitHub. Firestore & Firebase was used to store tables. Node JS was required to create the nodes. Vue, a JavaScript framework, was used to implement the front end of our interface. All of our code for implementing the interface was created using VS Code.

In order to run our code (see README.MD), one must do the following:

1. Download the newest version of Node.JS
2. Download VS Code
3. Navigate to the proper path where the TastyTalks program is downloaded, then change to the `tastytalks` directory (must be lowercase t's). The end of the path should read:
`TastyTalks\tastytalks\`
4. Install dependencies via the terminal
 - a. `npm install`
 - b. `npm install firebase`
5. Run the program by typing: “`npm run serve`”
6. Ctrl + click on the Local address to open the web application
7. Create a profile and login to application

2.4 Special Resources

In addition to the resources discussed in the previous section (2.3 Hardware and Software Resources), we used the following tools for developing our application:

- Jamboard - Used for formatting personas graphics

- Generated Photos (<https://generated.photos/faces>) - Provided AI generated photos for our personas
- Diagrams.net - Used to sketch wireframes (see Appendix- 8.2 Sketches) and create our journey map (see Appendix- 8.5)
- Figma (desktop version) - Used to create prototype (see Appendix- 8.6)
- ChatGPT (Version 3.5) - Used in the following capacities:
 - To help create our personas' backgrounds
 - To help format our introduction to this report and reword various components of the report.
 - Helped with researching advanced CSS and HTML coding techniques

3 Plan

This section contains a Gantt chart depicting task durations, descriptions of milestones and their tasks, and a summary of resource requirements and assignments for each task.

3.1 Timeline Chart

Figure 3.11 illustrates our timeline, using a Gantt Chart, for starting and completing our three milestones.

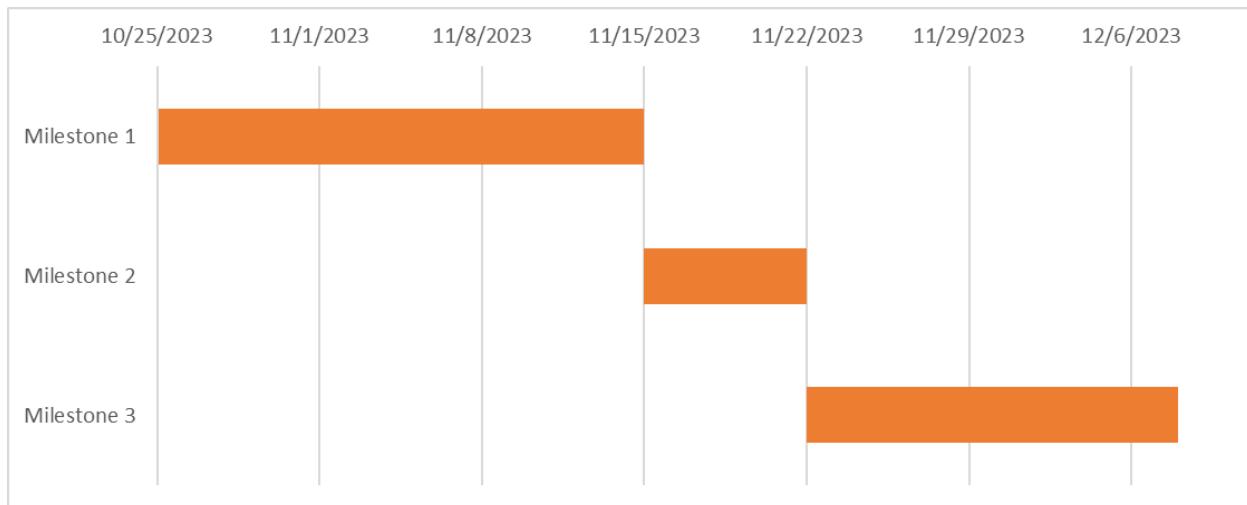


Figure 3.31: Tasty Talks Gantt Chart, illustrates the timeline for completing the Milestones

3.2 Task/Milestone Descriptions

Three Milestones were established as goals we planned to achieve and give us points to reflect, critique our design, and reassess where we were at in the process. The following section describes in detail our planned tasks and how they ended up going.

Milestone 1 - Design Process & Set up framework for web application

During Milestone 1 we had two members work on the design process and three members began setting up the software components required for coding the web application. Our goals were to have the design components, up to the prototype, completed and the Login feature of the program completed by the end of the milestone. Prior to starting these two processes, our team decided on a product vision and minimum viable product (MVP) features.

Design Process - Based on our product vision and MVPs, Samuel and Sushmita created a journey map, personas, storyboards, wireframes, and began setting up the prototype.

Set up framework for web application - Will, Ian, and Olivier researched different frameworks for creating our program, including MySQL, Flask, Python, Vue, Node JS, Firebase/Firestore, and ultimately decided on Vue, Node JS, and Firebase/Firestore. Next they began setting up the front and back end of the “Login” page/feature and were able to begin the “Create Account” page/feature. Fortunately, we were ahead of schedule at the end of the sprint.

Milestone 2 - Prototype, user study, set up object tables, and implement pages for creating a recipe and creating a question.

Prototype & User Study - During Milestone 2, the design team (Sam and Sushmita) created user stories, finished the Tasty Talks prototype (see Appendix 8.6) and had three UNC Charlotte students complete a user test (see section 5 User Tests). The feedback derived from the study would influence the ultimate direction of our design in Milestone 3.

Set up object tables & Implement pages for creating a recipe and creating a question - In this Milestone, Olivier and Will worked on creating the storage capabilities of our three tables (questions, recipes, and users) in Firestore, and the backend connectivity to Vue and Node JS. Meanwhile, Ian spearheaded the front end implementation of the application, based on the wireframes created in Milestone 1. Olivier, Will, and Ian all collaborated throughout the process, making sure the program operated seamlessly. Many trials and errors occurred, and lessons were learned along the way. By the end of the milestone, the tables were set up, basic versions of the “Login”, “Create Account”, “About Us”, “Questions”, and “Recipe Feed” pages were all created, and a navigation bar was functional.

Milestone 3 - Finish web application

Milestone 3 revolved around bringing all of the tasks accomplished in Milestone 2 and 3 together to complete the web application. Since all of the design planning and testing was completed, all members were able to contribute to enhancing the basic version of the Tasty Talks app into the fully functional application it is today. The main goals were to make the interface visually appealing, and add the remaining filtering, commenting, and posting functionality to the program. Sam and Sushmita assisted Ian with the frontend and CSS styling pages, while Will and Olivier continued to keep up with backend functionality of different features.

Finishing Frontend - The following tasks summarize the main points for making our frontend more visually appealing:

- Adding descriptions, instructions, and other textboxes to each page
- Formatting recipe boxes (on recipe feed and full page recipes), headings, and other visual containers
- Turning user, recipe, and question table elements derived from the back end into a synchronous themed style that's easy for the users to read

Finishing Backend - The main backend tasks we needed to finish in Milestone 3 included, but wasn't limited to:

- Testing and cleaning up code that was causing breaks when we tried accessing different pages or features.
- Adding more filter options (per the user study participants' requests)
- Get the program to display images uploaded by the users

These tasks succinctly encapsulate all the effort and intricacies needed to achieve our ultimate goal of completing the web application. By the end, we successfully implemented our MVP, and we are satisfied with the functionality and design. Therefore, Milestone 3 is considered completed

3.3 Resource Table

The resource table in this section (**Figure 3.31**) illustrates the different tasks for each milestone and the people responsible for completing the tasks. Throughout the implementation of the program, collaborative team efforts led to instances of role crossover. For example, Will and Olivier did step in to help with setting up a number of front end elements of the application. But, the following resource table gives a general idea of our team members' assigned roles throughout the development of the Tasty Talks application.

Milestone 1	
Task	Team Member

Task	People
<i>Design Process</i> - Created User Journey Map, Personas, and began Prototype	Samuel
<i>Design Process</i> - Created User Stories and Storyboards	Sushmita
<i>Design Process</i> - Created Wireframes	Samuel and Sushmita
<i>Front End Implementation</i> - Login and Create Account pages	Ian
<i>Back End Implementation</i> - Created framework of program, and back end of Login and Create Account pages' functionality	Olivier and Will
Milestone 2	
Tasks	People
<i>Design Process</i> - Finished Prototype and conducted User Studies	Samuel
<i>Design Process</i> - Created User Stories	Sushmita
<i>Front End Implementation</i> - Created Navigation Bar, and set up the original version of About page, Questions page, and Recipe feed.	Ian
<i>Back End Implementation</i> - Set up table configurations and connected to program	Olivier and Will
Milestone 3	
Tasks	People
<i>Front End Implementation</i> - Improved CSS Styling and added features to match user study feedback and MVP goals	Ian, Sam, Sushmita
<i>Back End Implementation</i> - Finished adding functionality to different features and accessibility to tables	Olivier and Will

Figure 3.31 : Resource Table, lists Milestones' tasks and people associated with the tasks.

4 System Design

This section details our system design by describing Tasty Talks' user stories, a list of features, and two storyboards we created based on our personas.

4.1 User Stories

The following user stories were created to cover the functionality elements of the Tasty Talks web application forum:

- As a user, I want to create a new account so that I have access to the Tasty Talks forum.
- As a user, I want to login to the web application in order to access the homepage so that I can see the different posts and recipes available to me.
- As a user, I want to read the description about the web application, in order to learn about the purpose of the web application.
- As a user, I want to filter recipes by regions in order to view recipes from a region of my choice.
- As a user, I want to ask the community a cooking related question.
- As a user, I want a place to post my recipes so I can show people the types of food that I like to make.
- As a user, I want to comment and post on the forum of a specific recipe in order to provide my feedback on the student chef's work.
- As a user, I want to see the thoughts of people from a dish's region so that I can gain insight from people knowledgeable of and grew up around the dish.

4.2 Feature List

Based on our MVP (see section 1.3 Project Scope and Objectives), we created the following list of attainable features, and fully implemented them:

- **Create Account** - allow users to enter their information and register an account
- **Login** - allow users to enter their username and password to login to the application
- **About page** - includes the following assets and features
 - Description of Tasty Talks
 - Buttons for navigating to recipe feed, questions feed, and create a post page
 - Employee carousel for showcasing our team members
- **Navigation header bar** - provides links to all pages and login/logout functionality
- **Recipe feed** - includes the following assets and features
 - Filter capabilities - allows users to filter recipe feed by Region, Course, Season, Holiday, and Dietary Restrictions
 - Scrollable feed of clickable recipe boxes that showcase the recipe Title, Image, Region, and Tags
- **Fullscreen Recipe page** - unique page for each recipe the users create when they post a recipe, includes the following:
 - Recipe box- showcases the recipe Title, Image, Date Posted, Ingredients, Instructions, Region, and Tags

- Comment section - includes a feed of comments and a text entry box for students to comment on the recipe
- **Questions feed page** - showcases a scrollable and clickable feed of questions that can be filtered by region.
- **Fullscreen Question page** - unique page for each question that's created when users post a question. Each question page includes the question they posted and a comment section for other students to answer the question or provide input.
- **Create Post page** - gives option for posting a recipe or question for the community
 - **Create a Question** - users can ask the community culinary related questions, organized by region
 - **Create a Recipe** - users can enter recipe information to share with the Tasty Talks community
- **Logout button** - enables users to logout of the application
- **Profile page** - shows user information and history of Recipe and Question posts

4.3 Storyboard

During the planning stage of the design process we created two storyboards to display a walkthrough of our application, and how a persona in our target audience would resolve a need of theirs by using the Tasty Talks forum. This section discusses the two storyboards we created.

The first picture (**Figure 4.31**) represents the original storyboard showing the layout of the app. It shows an image of you loading the website, and seeing the login page, and if you successfully login, you get taken to the website, where you can filter the regions as you want. If you want to create an account, you get taken to the Create Account page, where it asks you for your first name, last name, and lots of other details that help you create your account. After you're in the web application, you can create a recipe post and look at other posts from a variety of regions, and comment on them.

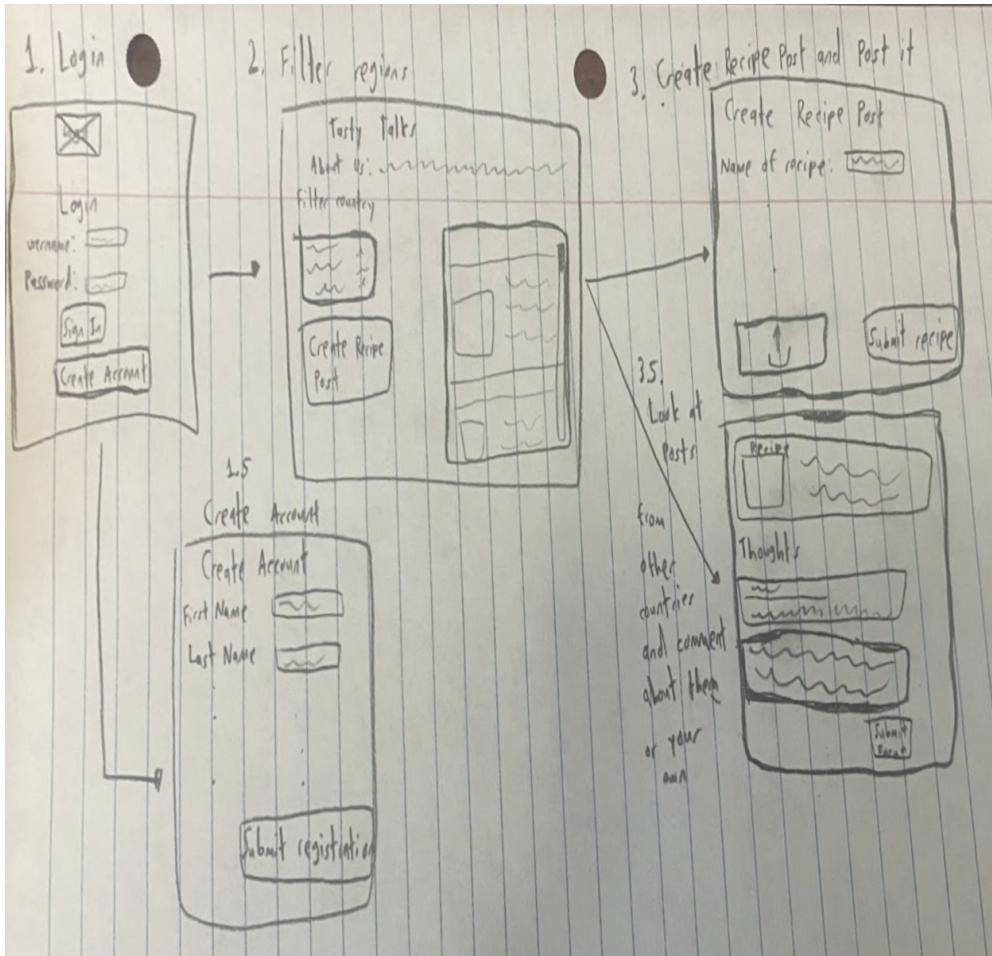


Figure 4.31: Original Storyboard Layout

This second and third pictures (**Figure 4.32** and **Figure 4.33**) shows an updated storyboard that represents our different personas using the website. For example, Kappa wants to learn about different cooking techniques, so she goes on social media, and finds an ad for the Tasty Talks website. She clicks the ad, and is taken to the login page, but needs to create an account first, since she doesn't have an account, and clicks the "Create Account" button, and creates her account. Since she needs to learn about cooking techniques, she clicks on the "Create Post" tab, and decides to create a question, since she wants to ask about cooking techniques. She provides the question name, region, and description, and posts it, and Alex, another persona, sees the question, and helps answer the question by commenting on the question, helping Kappa learn more cooking techniques.

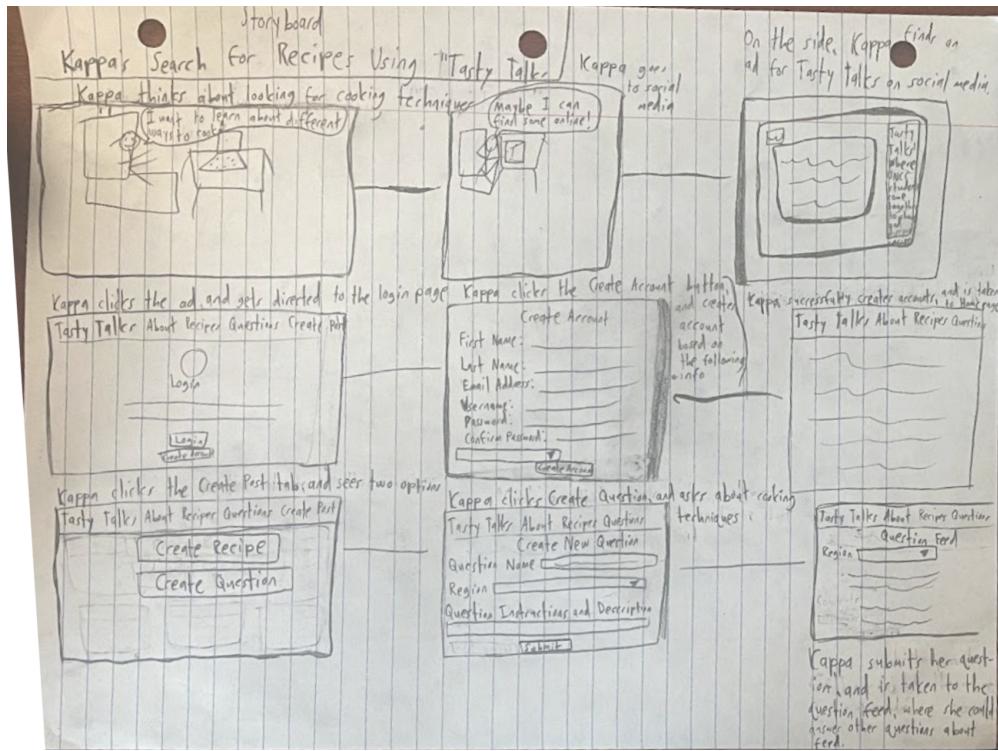


Figure 4.32: Part 1 of Updated Story Board

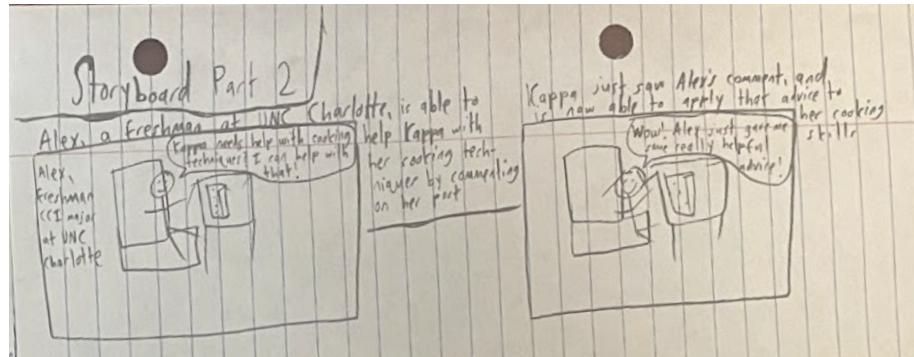


Figure 4.33: Part 2 of Updated Story Board

These two storyboards were useful in our design process because we were able to picture potential users, think about how they'd encounter and interact with our application, and begin to design a plan for the interface and how it would ultimately resolve the personas' problems or needs.

5 User Tests

The following section discusses a set of user tests performed using our prototype. A discussion of the test procedure, the user test and results, and conclusions based on the results of the user test. The feedback and observations derived from the user tests were considered by the Tasty Talks team and used to enhance the ultimate design of our web application forum.

5.1 Test procedure

Our group designed and developed a prototype of the Tasty Talks forum web application (see Appendix 8.6) to comprehensively evaluate the user experience and functionality of the design. This interactive and relatively high-fidelity prototype, crafted using Figma, was subjected to individual testing by three UNC Charlotte students. Each study participant was tasked with completing all of the user stories we created (see 4.1 User Stories) representing key tasks within the forum and asked a few follow up questions. The study was moderated by a member of the design team to facilitate a structured exploration of the prototype's features.

Prior to conducting the tests, we decided to categorize the test results (i.e. our observations) as Very easy (Figuring out interaction was intuitive / didn't require assistance), Moderately easy (Figured out most interaction without explanation), Acceptable difficulty (Could use product with training), Moderately difficult (Needed a lot of explanation from product team), and Very difficult (Did not understand interface) in order to summarize the ease of use of each task.

The following post-test questions were asked of each participant:

- How did you find the navigation within the forum? Were you able to locate the sections or features you expected?
- What are your thoughts on the overall visual design and layout of the forum?
- What specific improvements or additional features would enhance your overall experience with the forum?

5.2 User Test and Results

The following table (**Figure 5.21**) shows the user stories the study participants were asked to complete and the test results we concluded by observing the participants complete said user stories.

#	User Story	Test Results
1	As a user, I want to create a new account so that I have access to the Tasty Talks forum.	Very easy
2	As a user, I want to login to the web application in order to access the homepage so that I can see the different posts and recipes available to me.	Very easy
3	As a user, I want to read the description about the web application, in order to learn about the purpose of the web application.	Moderately easy

4	As a user, I want to filter recipes by regions in order to view recipes from a region of my choice.	Very easy
5	As a user, I want to ask the community a cooking related question.	Moderately easy
6	As a user, I want a place to post my recipes so I can show people the types of food that I like to make.	Very easy
7	As a user, I want to comment and post on the forum of a specific recipe in order to provide my feedback on the student chef's work.	Very easy
8	As a user, I want to see the thoughts of people from a dish's region so that I can gain insight from people knowledgeable of and grew up around the dish.	Moderately easy

Figure 5.21 - User Story Test Results

Feedback was collected by asking test participants follow up questions. The following answers to each post-test question summarize the input we collected from all test participants:

- How did you find the navigation within the forum? Were you able to locate the sections or features you expected?

SUMMARIZED ANSWER- Test participants found the navigation to be pretty simple, but it took a moment to find the “CREATE RECIPE POST” and “COMMUNITY QUESTION” buttons. The navigation bar at the top of the web application was easy to find and operate.

- What are your thoughts on the overall visual design and layout of the forum?

SUMMARIZED ANSWER- Overall, the test participants liked the visual colors, and found the layout and signifiers were effective for interacting with the web application. They did think there was a significant amount of green and thought there were opportunities for differentiating the color scheme a little.

- What specific improvements or additional features would enhance your overall experience with the forum?

SUMMARIZED ANSWER- The test participants made the following suggestions for improvement:

- Change the “Login” to say “Logout” when the user is logged in.
- Add an option for filtering the regional contributors in the forum conversations.
- More filtering options are wanted (e.g. dietary restrictions, meal categories, etc.)
- Add more information on the “About” page, possibly add the two buttons for creating a recipe post and community questions to the page.

5.3 Conclusion

During the sessions, participants engaged with the prototype, providing valuable insights into usability, navigation, and overall satisfaction. The focus on student users allowed the team to gather specific feedback tailored to the target audience. Through a series of carefully crafted user stories, the study aimed to uncover potential challenges, preferences, and areas for improvement in the design.

After observing the participants interacting with our prototype, we determined the interface is easy to navigate, but there are a couple areas that can be altered to improve efficiency. The follow up interview questions helped address the specific reasons the users experienced minor challenges and how to improve the design.

Based on the tests and the users' feedback we plan to adjust the navigation bar to include "Log Out", modify the colors, add interaction options (i.e. navigation buttons) on the about page, and find a way to filter the regional contributors in the forum. Additionally we learned users would like more options for filtering the recipes. Some of these improvements have been implemented in the prototype and all are implemented in the final web application.

6 Lessons Learned

There were multiple things that could have gone better during this project. We were ahead of schedule most of the time during the project design and implementation phases, but we ended up being a little short towards the end of the last sprint. Having clear deadlines for each group member or at the very least group deadlines for what needs to be finished and tested reveal to be extremely important to not fall behind on schedule. It was also important to take holiday and exams as a part of the time management strategy because we ended falling a little behind after thanksgiving and towards the last days of the project. Overall, maintaining a positive attitude in the group and having a good management strategy were both of the main keys to the success of our group project. It helped a lot to understand how to work as a team with people we had no prior working experience with.

7 Future work

There are still many features to be added to the project to make it more than just a minimum viable product. Adding more to the profile page such as a post history, profile pictures, comment history, and username changing. The forum itself could have some more in depth built in moderation tactics.

In order to deploy the website we would have to find a way to host it and purchase a domain name. We would also have to dedicate time to moderate the page and promote the website. A terms of service and privacy policy would need to be made for the handling of user data.

8 Appendices

8.1 Team Charter

The following team charter was created in order to establish a cohesive standard for our Tasty Talks team:

Chosen Group Name: Tasty Talks Team

Group Members: William Bermel, Ian Boyd, Samuel Baynes, Sushmita Hari, Olivier Deschamps

Communication Channel: Discord

Trello Board/Github Project Boards:

<https://trello.com/invite/b/TALjhqrW/ATTId9ffb6af39b66c2737c4293cd3926f6453EAE4/tastytalks>

<https://github.com/wbermel3rd/TastyTalks>

Github Repo: wbermel3rd/TastyTalks: Final project for ITSC3155 - Software Engineering (github.com)

What is the lowest grade your group will be satisfied with?

B to A-

Our agreed time-management strategy will be to:

We plan to work a few days ahead of deadlines in order to solve unforeseen problems and be able to submit on time.

Describe how you will handle your team leadership.

We plan to rotate the leadership role by sprints. Given there are 3 sprints, there will be 3 different leaders.

How do you plan to handle the situation if someone does not meet expectations? Has everyone agreed to this strategy?

We have all agreed to talk to them first and if nothing changes, we'll have a meeting with them and the professor.

List your project roles:

- 1. Design Sprint 1**
 - a. Will - backend**

- b. Sushmita - design, user stories
 - c. Sam - prototype, personas, user story, journey map
 - d. Olivier - frontend
 - e. Ian - frontend
2. Design Sprint 2
- a. Will - frontend and backend
 - b. Sushmita - frontend and color scheme
 - c. Sam - user study and frontend
 - d. Olivier - frontend and backend
 - e. Ian - frontend and backend
3. Design Sprint 3 -
- a. Will - frontend and backend
 - b. Sushmita - frontend and color scheme
 - c. Sam - frontend
 - d. Olivier - frontend and backend
 - e. Ian - frontend and backend

8.2 Sketches

Prior to implementing our backend and frontend coding for our forum application, we created five wireframe sketches, using Diagrams.net, to showcase a general layout and components of the pages required for completing our design tasks. The following pages were initially sketched: Login Page (**Figure 8.21**), Create Account (**Figure 8.22**), Recipes Page (**Figure 8.23**), Posts Page (**Figure 8.24**), and a Create Post Page (**Figure 8.25**). The application is built upon initial wireframes but underwent modifications to align with updates and coding requirements, including changes to accommodate CSS styles.

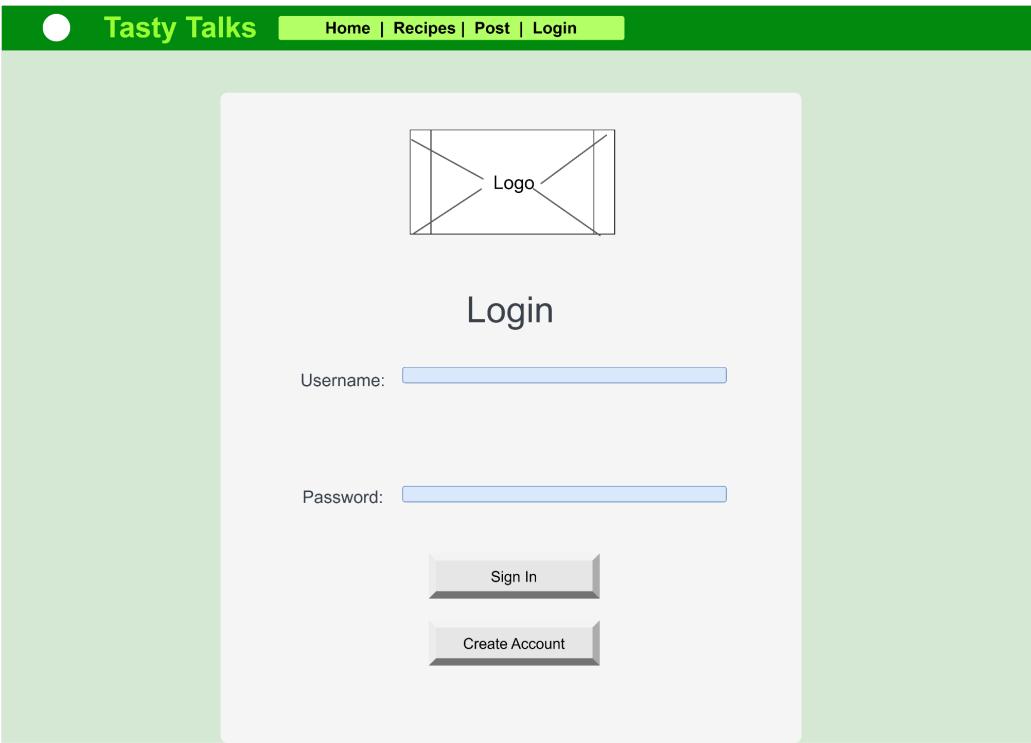


Figure 8.21 - Login Page

The image shows the create account page for the "Tasty Talks" website. The header is green with the logo and navigation links: Home | Recipes | Post | Login. The main area has a light green background. It features a large yellow button at the top labeled "Create Account". Below it is a form with six input fields: "First Name:" with placeholder "Enter First Name", "Last Name:" with placeholder "Enter Last Name", "Username" with placeholder "Create Username", "Password:" with placeholder "eg. ATP, VOSS etc.", "Confirm Password:" with placeholder "eg. ATP, VOSS etc.", and "Country of Origin:" with placeholder "Enter Country". At the bottom is a yellow "Submit Registration" button. A small footer at the bottom right reads "Footer TBD TastyTalks 2023".

Figure 8.22 - Create Account Page

Tasty Talks

[Home](#) | [Recipes](#) | [Post](#) | [Login](#)

Tasty Talks

About us - Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrum exercitationem ullam corporis .

Recipes, filtered by country: (click recipe to learn more and discuss with others)

Filter Country

<input checked="" type="checkbox"/> ALL	Argentina	Brazil	China	Columbia	Denmark	Ecuador	Ecuador

Create Recipe Post

Name of Recipe 1	Student Chef's Name	Country
	Lore ipsum dolor sit amet, consectetur adipisicing elit, sed eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut	
Name of Recipe 2	Student Chef's Name	Country
	Lore ipsum dolor sit amet, consectetur adipisicing elit, sed eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut	
Name of Recipe 3	Student Chef's Name	Country
	Lore ipsum dolor sit amet, consectetur adipisicing elit, sed eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut	

Footer TBD TastyTalks 2023

Figure 8.23 - Recipes Page

Tasty Talks

[Home](#) | [Recipes](#) | [Post](#) | [Login](#)

RETURN

Recipe 1

Recipe By: Student Chef's Name **Dish's Country of Origin:** Country Name

	About Dish: Lore ipsum dolor sit amet, consectetur adipisicing elit, sed eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex ea commodi consequatur
	Recipe: 1. sunt in culpa qui officia deserunt mollit anim id est laborum. 2. actionem ullam corporis suscipit laboriosam, nisi ut aliqui

Thoughts of people from {{ dish's country }}

	Name of Chef Contributing to Post	Date of Post
	Feedback from other student chef Lore ipsum dolor sit amet, consectetur adipisicing elit, sed eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex ea commodi consequatur. Quis autem reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint obcaecat cupiditat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.	

General Forum:

Author of Post's Name	Date of Post
Post: Lore ipsum dolor sit amet, consectetur adipisicing elit, sed eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex ea commodi consequatur.	

Post to Forum (if your country of origin matches dish, post will appear in top forum, otherwise it'll appear in bottom forum):

Enter Text

Submit to Forum

Footer TBD TastyTalks 2023

Figure 8.24 - Posts Page

The screenshot shows the 'Create Recipe Post' page. At the top, there's a navigation bar with a logo, the text 'Tasty Talks', and links for 'Home | Recipes | Post | Login'. The main content area has a light green background. It contains four input fields with blue borders: 'Name of Recipe*' (placeholder 'Enter Recipe Name'), 'Recipe Country of Origin*' (placeholder 'Enter Country'), 'About Recipe' (placeholder 'Enter Description of Recipe'), and 'List Recipe Instructions*' (placeholder 'List Recipe'). Below these is a yellow button labeled 'Upload Picture(s) of Dish' with a large yellow arrow icon pointing upwards. To the right of the upload button is a yellow rectangular button labeled 'Submit to Recipe'. At the bottom right of the page, the footer text 'Footer TBD TastyTalks 2023' is visible.

Figure 8.25 - Create Post Page

8.3 Software Repository

The following “Software Repository” link takes you to the Github repository we created for collaborating on the development of the Tasty Talks web application. Initially we created three branches, “Styling-Designs”, “Front-End”, and “Back-End”. As the development progressed, we merged and pushed coding and content to the “Main” branch.

[Software Repository](#)

8.4 WBS Tool

At the beginning of our sprints we decided on tasks required to achieve our milestones and listed the tasks on Trello. Trello is a collaborative Work Breakdown Structure (WBS) tool we used to help keep record of our progress throughout our project. The tasks were initially placed in a list titled “To do” and progressed or regressed to the lists “Backlog”, “In progress”, “Code Review”, and “Done” as we worked on implementing our tasks. The following link takes you to our Trello board.

[Trello Board](#)

8.4 Meeting notes

All of our meeting and sprint notes were recorded as we progressed throughout our design process. Please refer to the following “Meeting Notes here” link to view our journal documentation.

[Meeting Notes here](#)

8.5 Journey Map

Figure 8.51 depicts the journey map we initially created when brainstorming users’ potential interactions with our web application. The map depicts all of the Discovery, Learn, Use, Decide, and Goals a user may encounter along their journey. All other processes of the design process took place after the development of this journey map

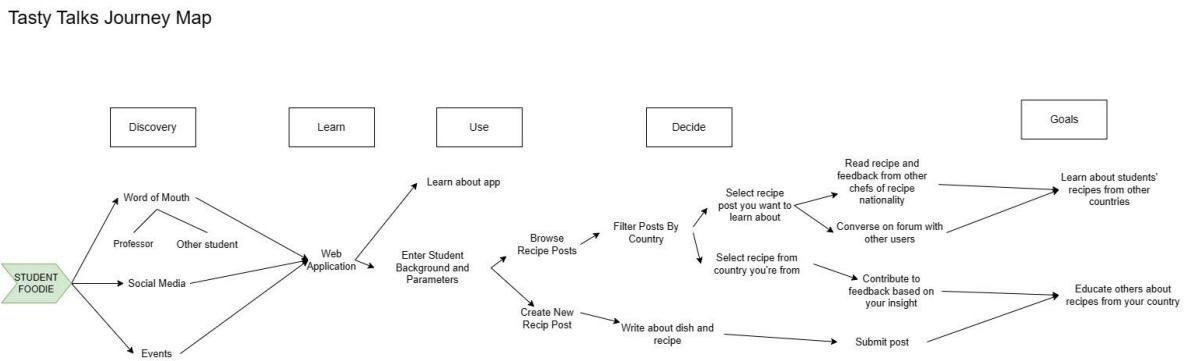


Figure 8.51: Tasty Talks Journey Map

8.6 Figma Prototype

A prototype of the Tasty Talks web forum application was created, using Figma, in order to conduct user tests during the design process. Additionally, the prototype acted as a tool for improving design aspects and a reference for the coding implementation of the development process. Only certain assets in the prototype are interactive. Our goal was to make enough assets interactive to showcase the features of what we planned to ultimately implement. The following links take you to the Figma prototype:

[Tasty Talks Prototype](#)

8.7 Data Flow Diagram

The following data flow diagram illustrates the flow of information between the user, application, and database

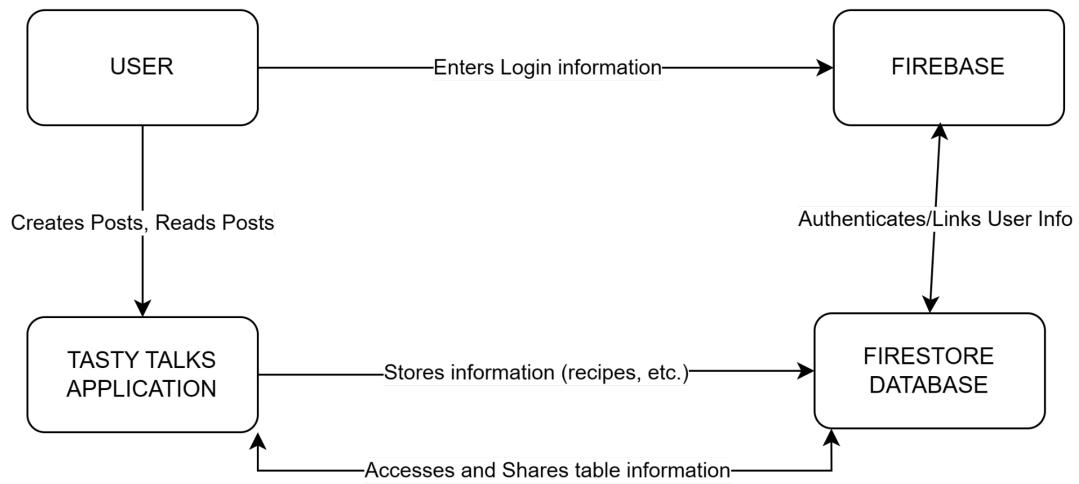


Figure 8.71 : Tasty Talks Data Flow Diagram