

SW Engineering CSC 648-05 Spring 2023

RecipeReel

T03 Milestone 1

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History table

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1. Executive Summary

Consider for a second that you are at home, perusing social media while attempting to determine what to make for dinner. You come across a picture of a dish that looks really scrumptious, and by simply glancing at it, you could almost taste the flavor. But, you encounter a frustrating situation when attempting to locate the recipe. Just to find the recipe itself, you have to navigate through multiple links, lengthy blog entries, and pop-up advertisements. Even then, the recipe can be unclear or confusing to follow. One of the reasons we're creating a recipe website is because this is a frustrating experience that many people can relate to. We believe that there's a better way to share and discover new recipes, one that prioritizes ease of use, community engagement, and high-quality content.

RecipeReel is motivated by the need to make things easier for home cooks to find and make connections with one another. RecipeReel aims to create a community of food lovers who can share their knowledge, expertise, and passion for cooking in a supportive and engaging environment. It provides users with an opportunity to rate and comment on recipes, giving them a possibility to help each other find the best recipes for their needs. Users can upload photos, cooking instructions, and ingredients, making it easy for other users to recreate the recipe at home. Recipes can be organized by categories such as cuisine type, and dietary restrictions, and it allows users to find the perfect recipe for any occasion.

We believe that RecipeReel has the potential to become a leading platform in the food industry, facilitating the sharing of recipes and the exchange of cooking tips and ideas. We aim to create a community of food lovers who are passionate about exploring and creating new dishes, and who value the connections, and relationships that can be formed through food.

2. Use Cases

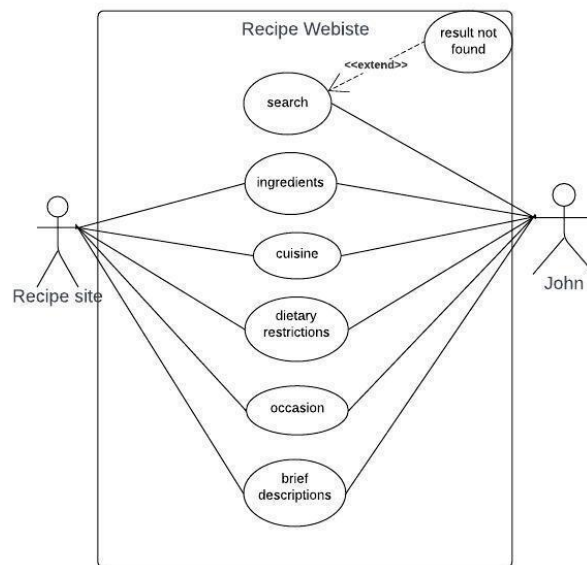
2.1 Dining out is too expensive for a birthday meal

Actor: John, student

Description:

John is a college student at SFSU, he is overwhelmed because his birthday is coming up soon and he was planning to celebrate by going out for a nice meal with friends. However, he has a tight budget, dining out can be a luxury that he as a college student simply cannot afford. To make the most of his special day, he decided to search online for recipes and cook a nice meal to host his friends. He has been browsing through different websites and social media platforms, looking for recipes that are easy to follow and use ingredients that are readily available and affordable.

RecipeReel allows John to search for recipes based on various criteria, such as ingredients, cuisine, dietary restrictions, or occasion. The website provides search results with recipe names and brief descriptions that match the user's search criteria. After browsing several websites, John finally settles on a recipe that looks delicious and within his budget. He makes a list of all the ingredients he needs, heads to the grocery store, and begins preparing the meal. As he cooks, he realizes that he is having a great time and feels a sense of accomplishment knowing that he is preparing his own birthday meal.



(Diagram 2.1, Use Case)

2.2 Bored of local foods

Actor: General User (Mark): Searching to find new foods to try.

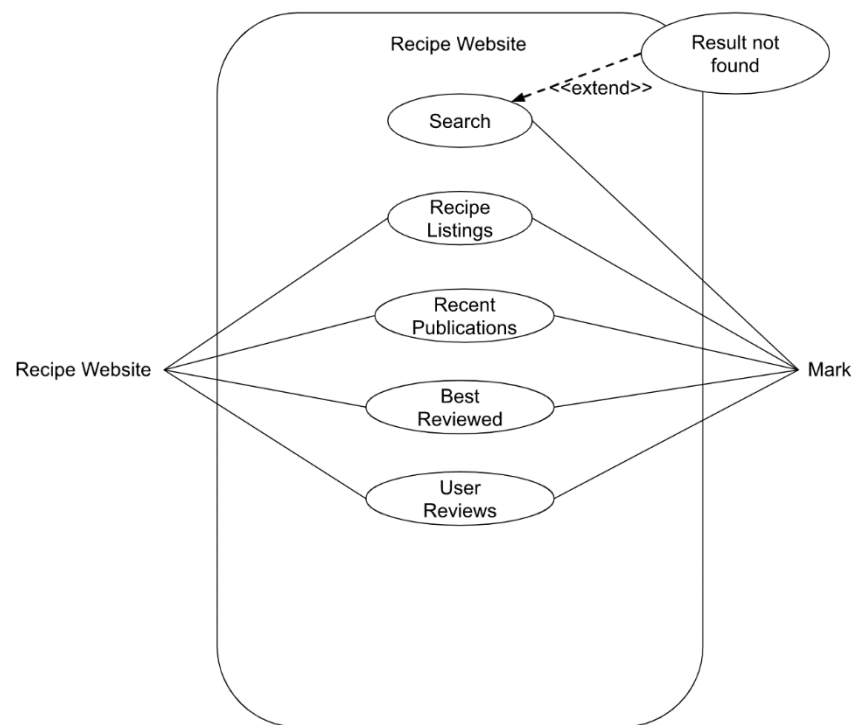
Description:

Mark is an introverted fast-food employee who barely makes above minimum wage. He often works in the kitchen due to him not being comfortable enough to work the register and interact with customers he knows nothing about. Though he hopes to find a better paying job, he finds himself eating from the restaurant for breakfast and lunch, and then taking home leftovers for dinner to save money while he searches for a career he is interested in pursuing.

As time goes on though, he has found himself getting tired, even loathing the idea of having to eat another meal from his workplace. The unfortunate fact of the matter though is that Mark lives in a small rural town, and the only local restaurants seem to either be other fast-food establishments, or they simply sell higher quality versions of what his fast-food establishment already provides. He needs a change of pace; he wants to taste food from somewhere he would be unable to visit with the income he is currently making. As a result, Mark dips a little into his savings in order to treat himself and starts to research recipes from RecipeReel, where he scours

the new recipe section, as well as the top-rated recipe section in hopes of finding something to satiate his hunger for something new.

The new section of RecipeReel allows Mark to easily search through the website's listing of recipes by latest publications. Though because of how new they are, he may find himself worried about the quality of the recipes and if they are even worth the time and money, he puts in to try them out. To circumvent that, there is also the top-rated section, where Mark can see a catalog of the best rated recipes the website has to offer. Being able to make an educated guess on the quality of a recipe, as well as the consensus of the taste of the meal itself allows for him to feel more at ease when putting his hard-earned money into buying the necessary ingredients to cook it himself. With these tools at Mark's disposal, he will surely be able to find something to prepare for himself that he would be unable to otherwise find in his small rural town.



(Diagram 2.2, Use Case)

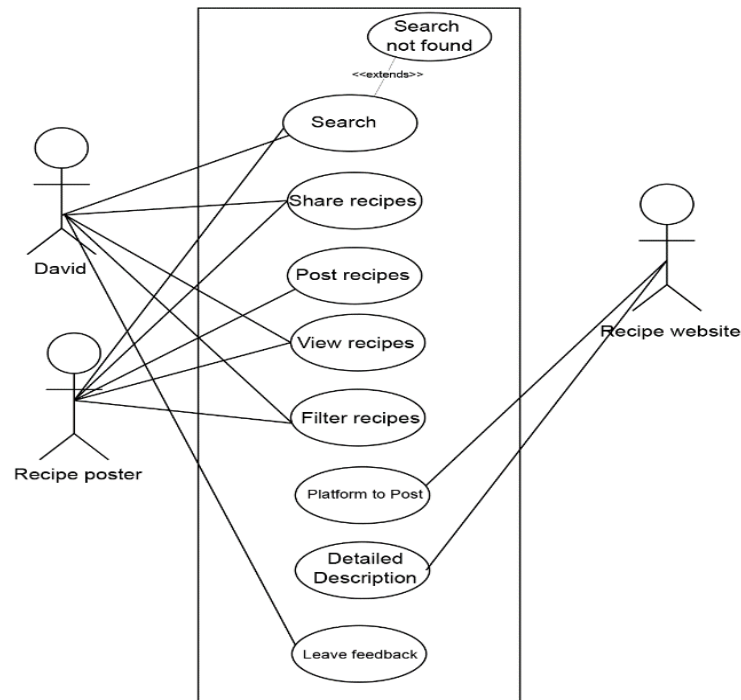
2.3 Cook with what you have

Actor: Construction worker (David)

Description:

David works overtime at a construction company, and most of his work involves hard labor work. After a long working day, David must do groceries on his way home and must prepare his own meal. Since David doesn't have much experience on how to cook, he rather makes quick similar meals that he eats every night. Even though he made a wise decision to make his meal at home and he saves a lot of money from spending unnecessary expenses at restaurants, he always wants to eat good and healthy cuisine from all around the world. If only David knows the food ingredients that he has at home can make different types of dishes from all around the world.

RecipeReel is a great social platform that allows users to share their favorite meals with enough details on how to cook them. Once any user finishes cooking their favorite meal, it gives a platform to post a picture of their masterpiece and lets them share the process of making it, so the whole world can appreciate their art. Now David shall scroll RecipeReel and learn how to make different meals from different countries, with unique flavors with little of what he has at home just by filtering his ingredients.



(Diagram 2.3, Use Case)

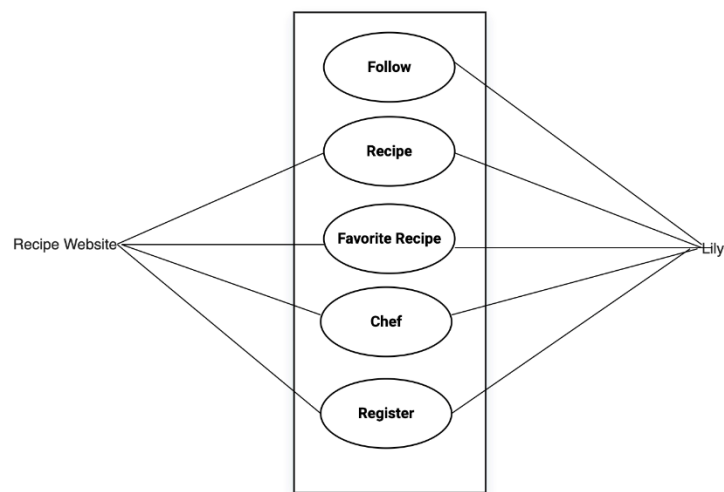
2.4 Home cooks can follow their favorite users

Actor: Lily, Mary

Description:

Lily is an avid home cook who loves everything about food. She loves to go out and eat. With the current state of the economy, going out is a luxury that is becoming less affordable for her. When she can afford to go out, she goes to her favorite restaurant. As her meal progresses, she is loving the food. She tells her waitress to compliment the chef. After the waitress comes back, she tells Lily the executive chef, Mary, is using RecipeReel to share some recipes of the most popular items on the menu. This includes some of the entree that Lily ordered tonight. Lily is determined to eat this well at least once a week. She downloads the app, creates a new account, follows Mary, and learns to cook the entree that she had that night. She learns that chefs from some of her other favorite restaurants are also using RecipeReel and she follows them and learns to cook some more of her favorite dishes.

Lily now eats well affordably; she can make her own spin of dishes that she has had at some of her favorite restaurants. She still goes out to eat occasionally, but she eats something that she can't cook at home. She is happy that she is self-sufficient and can cook tasty food. She even hosts dinner parties now.



(Diagram 2.4, Use Case)

2.5 Homestay owner cooks a variety food for international students

Actor: Lucy Kim, Yu-Jun (Korean student), Márcia (Brazilian student)

Description:

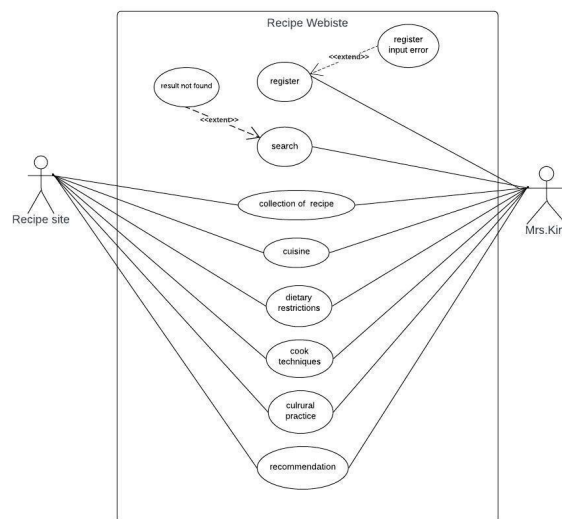
Mrs. Kim is a homestay owner who lives in the United States. She loves taking care of international students who come to study in the country. For Mrs. Kim, it was more than just a job - it was a passion. One of the things that Mrs. Kim takes pride in is providing delicious meals for her students. She knew that food was an essential part of every culture, and she wanted her students to experience the best of American cuisine, as well as the dishes from their own countries.

Mrs. Kim's homestay hosted students from all over the world - China, Korea, Japan, Brazil, and many more. Every day, she would make different meals to cater to the diverse preferences of her students. She was always on the lookout for new recipes and ideas to make their meals more exciting and authentic. To make sure she was creating the best meals for her students, Mrs. Kim would often go online and research popular foods from each student's

country. She would watch cooking videos, read blogs and recipes, and even connect with local people to learn more about the authentic dish

RecipeReel was the website that caught her fancy that offers a vast collection of recipes, all categorized by cuisine, dietary restrictions, and cooking techniques, Mrs. Kim registered an account, as she searched a variety of food, she got a lot recommendation of food from Flavor Frenzy, and she learned about new cooking techniques, and cultural practices. She cooked a variety of Korean dishes, such as kimchi stew, bibimbap, and bulgogi, which Yu-Jun loved. Mrs. Kim also cooked feijoada, churrasco, and brigadiers, which Márcia felt like her mom 's food. Mrs. Kim realized that food was not just about satisfying hunger, but also about creating connections and memories.

As Mrs. Kim tucked her students into bed that night, she knew that she had done her job well. She had not only fed their stomachs but also their souls. Her students were happy, and so was she. She was grateful for the opportunity to make a difference in their lives, one meal at a time.



(Diagram 2.5, Use Case)

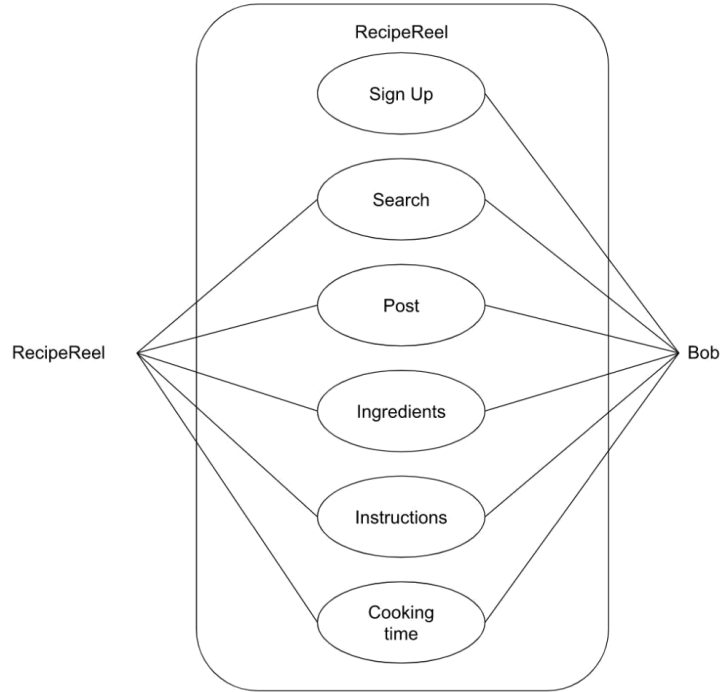
2.6 Share Special Ingredients with the community

Actor: Dan

Description:

Dan is an African citizen currently living in America. He has been preparing meals for himself using a specific ingredient from his own country that gives his dishes a very delicious flavor. However, he recently discovered that many American citizens are not familiar with this ingredient and do not know how to use it in their cooking. As a passionate cook and food enthusiast, Sam wants to share his knowledge and expertise with others by creating a post on this food sharing platform, explaining what the special ingredient is, how it can be used in different dishes, and where to buy it. He wants to create a complete guide that will help others discover the magic of this ingredient and use it into their own cooking. Additionally, he hopes to start a discussion on the website where others can share their own tips and recipes for using the ingredient, creating a community of cooks who are passionate about exploring new flavors and ingredients.

Also, by sharing this special ingredient with the community, he hopes to introduce more people to the ingredient and traditions of his home country, and to promote greater understanding and appreciation between different cultures.



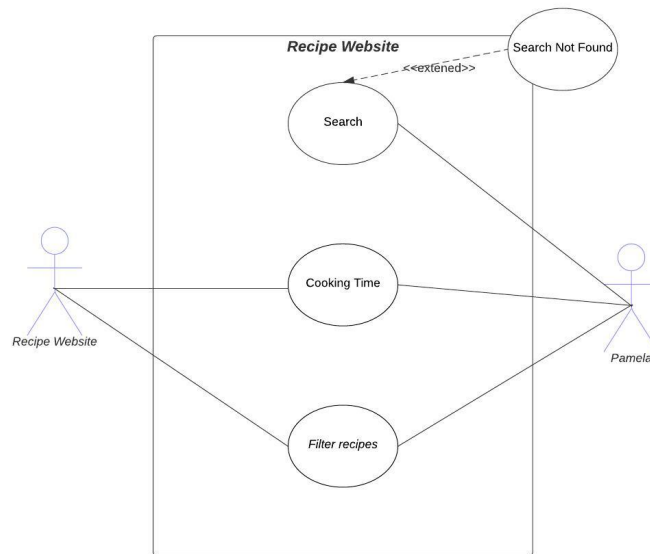
(Diagram 2.6, Use Case)

2.7 Finding recipes based on cooking time

Actor: A working mom (Pamela)

Description:

Pamela is an event planner, and her job requires her to always be on the go. She is also a mom of two toddlers. Her job requires her to be active throughout the day, sometimes even during odd timings. She often doesn't find the time to cook and relies on takeouts, as it's hard to choose what to cook and find the time out of her busy schedule. She wants to find recipes that will help her cook quick and healthy meals. Hence she found RecipeReel, where she can search for recipes and view the cook times of each for each meal she finds interesting. She can scroll through and look for recipes that fit her schedule.



(Diagram 2.7, Use Case)

2.8 Recipes based on dietary restrictions

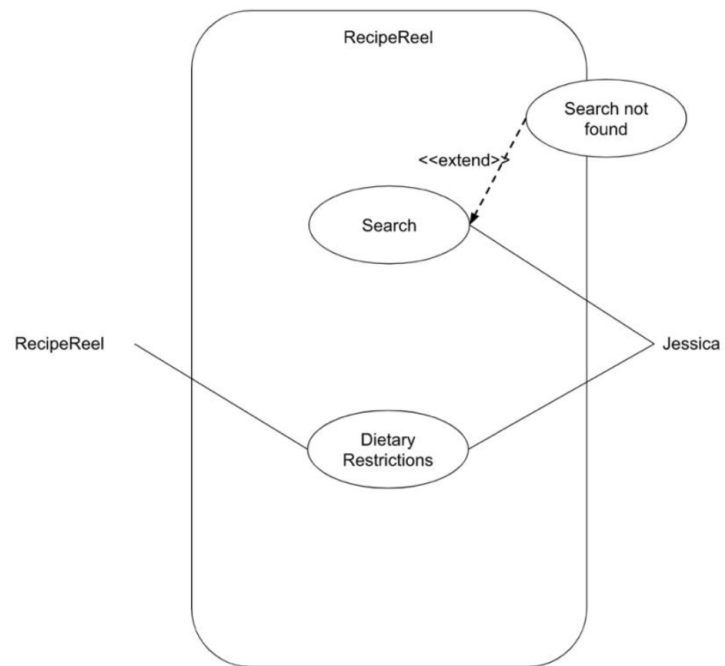
Actor: Christine, Jessica (mom)

Description:

Christine is a 9th grade student, who spends more than half the day at school. She is a track student and is part of debates in her school business club. While at school, she opts to get food from the cafeteria, which is often not a healthy choice. Currently Christine has been advised to follow some dietary restrictions by her doctor. And Jessica, her mother, has no clue what and how to make meals that follow Christine's dietary restrictions. Hence she decides to try different recipes at home with the help of RecipeReel.

On RecipeReel, Jessica uses the categories tab to look up recipes based on dietary requirements, she also looks for recipes that are healthy and would help Christine get all the

nutrients she needs to get through her food.



(Diagram 2.8, Use Case)

3. List of main data items and entities

- Search: It is an entity that allows users to search for recipes using specific keywords.
These keywords can be (but not limited to) ingredients, users, or cultural cuisine. General users have access to search because we want them to be able to look up recipes that they would like to cook.
- Ingredients: It is an entity that users shall search for recipes based on the ingredients they have on hand. The ingredients entity shall include various items that are used in cooking recipes, such as chicken, fish, pork, beef, vegetables, and others. These ingredients can be represented as an enumeration or a list and the search shall return recipes that can be made with those ingredients.
- Cuisine: It is an entity that users can use to search for recipes based on specific cuisines. Users can select the cuisine they are interested in, such as American, African, Mexican, or Asian and the search shall return recipes that fall under the cuisine type.
- Dietary Restrictions: It is an entity that users can use to find recipes based on diet specifications. This will allow users to have an option to find their favorite recipes based on their diet restrictions. Such as keto, gluten-free, vegan, dairy free, halal, etc., and the search shall return based on their restrictions.
- Occasion: It is an entity that users shall search for recipes based on the occasion or event. Users can select the type of occasion they are preparing for, such as a holidays, Birthday party, and the search shall return all recipes that are suitable or categorized for that occasion.

- **Brief Description:** It is an entity that will provide the user with a short summary of the dish that highlights its main ingredients and background. Brief descriptions also interact with other entities such as, allergy or eating restrictions
- **Follow:** It is an entity that refers to a registered user to follow another user's content on the website. When a user follows another user can view the updates about the new contents that the following user has posted. The purpose of this entity is to build connections between users, help users to find similar interests in recipes and discover new recipes and content with other users.
- **Unfollowing:** It is an entity that allows a registered user to unfollow certain users. The purpose of this entity is to allow users to see only recipes from specific users that they are interested to follow.
- **Recipe:** Recipe is an entity that will provide users with information about a specific recipe. It includes other entities such as, recipe title, which is the name of the dish; A brief description of this recipe; Ingredient list which informs the user all the ingredients needed to make the dish; Cooking time, which tells the user the amount of time required to cook the dish; Recipe images that user posted, and comments from other users etc.
- **Post:** It is an entity that allows a registered user to post personal recipes, allowing them to help spread new varieties and food ideas. The post contains 1-6 images per post and with a maximum 2000 characters.
- **Category:** It is an entity that shall allow users to easily navigate and filter through the available recipes based on their preferences. It is an entity that shall be used as a container for organizing and grouping various sub-data items such as cuisine, ingredient, occasion, and dietary restriction. The Category entity will provide an efficient and useful way for users to find the recipes they are looking for.

- Latest Post: It is an entity that tracks and stores when a user publishes a new post. This entity may be used to notify other users with the recent post and a message shall be displayed on the notification bar. Additionally, if the recent publisher is in the best reviewed publisher category, they shall automatically be recommended to several users on their feed. Recent publications shall also be used on users' feeds regardless of their rating, so new and unrecognized users can get a chance to share their cuisine based on this entity.
- Top Rated: It is an entity that stores users ratings and feedback on its database, then it shall manage to categorize among best reviewed, good received or bad reviewed. By doing this, it will benefit the admin on recommending other users based on their reviews. The best reviewed recipe shall be noticeable and visible by all users so other users can benefit from its best reviewed recipes. Our database system shall be able to store and process user data and use it and use that data to recommend on the home page. To access the best reviewed cousins, our system shall have a system that will help to categorize based on their rating. By searching or filtering users can easily access the best reviewed cuisine.
- Register : It is an entity that allows a general user to register/sign up for an account so they can access more functions of the site. The purpose of this entity is to allow a general user to create an account and start using the social features of the site.
- Cooking time: Cooking time is an entity that will provide users with an estimation of the total time required to cook a specific dish. The purpose of this entity is to allow users to plan their meal preparation and manage their time. The format of this entity will be displayed as hours and minutes. Cooking time also interacts with other entities, such as

preparation time, which tells the user the amount of time required for preparing the dish and resting time for how long to let the food sit before eating.

- Instructions: Instructions are an entity that will provide the user with step-by-step guidance on how to prepare and cook a dish. Instructions also interact with other entities, such as ingredient list which informs the user all the ingredients needed to make the dish and the cooking method which informs the user if they need a grill or stove to cook a certain meal.

4. Initial list of functional requirements

4.1 Functional requirements for general users

- 4.1.1 A general user shall be able to register.
- 4.1.2 A general user shall be able to register using a phone number.
- 4.1.3 A general user shall be able to verify phone numbers.
- 4.1.4 A general user shall be able to verify using 2FA.
- 4.1.5 A general user shall be able to search.
- 4.1.6 A general user shall be able to scroll through posts in a feed like manner.
- 4.1.7 A general user shall be able to search the website by newest.
- 4.1.8 A general user shall be able to search the website by best reviewed.
- 4.1.9 A general user shall be able to search different categories of food.
- 4.1.10 A general user shall be able to search for recipes based on an ingredient.
- 4.1.11 A general user shall be able to search for recipes based on dietary restrictions.
- 4.1.12 A general user shall be able to search for recipes based on a max calorie count.
- 4.1.13 A general user shall be able to search for recipes based on cooking time.
- 4.1.14 A general user shall be able to sort search based on lowest or highest calorie count.
- 4.1.15 A general user shall be able to search for recipes by cuisine type.
- 4.1.16 A general user shall be able to view recipe details such as ingredients.
- 4.1.17 A general user shall be able to view recipe details such as cooking time.
- 4.1.18 A general user shall be able to view recipe details such as difficulty level.

4.2 Functional requirements for registered users

- 4.2.1 A registered user shall be able to log in.
- 4.2.2 A registered user shall be able to log out.
- 4.2.3 A registered user shall be able to edit a profile.
- 4.2.4 A registered user shall be able to share a post of recipe.
- 4.2.5 A registered user shall be able to get recommendations when they are not sure what to cook.
- 4.2.6 A registered user shall be able to download the recipes from the website.

- 4.2.7 A registered user shall be able to filter by ingredients.
- 4.2.8 A registered user shall be able to search by ingredients.
- 4.2.9 A registered user shall be able to filter by dietary restrictions.
- 4.2.10 A registered user shall be able to change their password.
- 4.2.11 A registered user shall be able to change their email.
- 4.2.12 A registered user shall be able to delete their post.
- 4.2.13 A registered user shall be able to archive their post.
- 4.2.14 A registered user shall be able to not see promotions.
- 4.2.15 A registered user shall be able to view recipe details such as ingredients.
- 4.2.16 A registered user shall be able to view recipe details such as preparation time.
- 4.2.17 A registered user shall be able to view recipe details such as difficulty level.
- 4.2.18 A registered user shall be able to follow other users to receive updates and see their recipe collections.
- 4.2.19 A registered user shall be able to leave comments or feedback on recipes to ask questions or provide suggestions.
- 4.2.20 A registered user shall be able to rate recipes.

4.3 Functional requirements for admins

- 4.3.1 An admin shall be able to verify using email.
- 4.3.2 An admin shall be able to verify using password.
- 4.3.3 An admin shall be able to verify using a phone number.
- 4.3.4 An admin shall be able to verify using Two - factor authentication.
- 4.3.5 An admin shall be able to get a new password if forgotten.
- 4.3.6 An admin shall be able to change passwords.
- 4.3.7 An admin shall not be able to change email.
- 4.3.8 An admin shall be able to log in.
- 4.3.9 An admin shall be able to log out.
- 4.3.10 An admin shall be able to share a post of a recipe.
- 4.3.11 An admin shall be able to delete a post of a recipe.
- 4.3.12 An admin shall be able to save a post.
- 4.3.13 An admin shall be able to like a post.

- 4.3.14 An admin shall be able to dislike a post.
- 4.3.15 An admin shall be able to leave reviews on recipes.
- 4.3.16 An admin should be able to follow other authenticated users.
- 4.3.17 An admin shall be able to change their password.
- 4.3.18 An admin shall be able to change their linked email address.
- 4.3.19 An admin shall be able to change their usernames.
- 4.3.20 An admin shall be able to change their pass.
- 4.3.21 An admin shall be able to filter recipes by who they're following.

5. List of non- functional requirements

5.1 System requirements

- 5.1.1 The website shall be able to use client – server.
- 5.1.2 The website shall be able to handle when visitor scale is high.
- 5.1.3 The website shall be able to support both cellular and Wi-Fi networks.
- 5.1.4 The website shall be able to support any user using any web browser.
- 5.1.5 The database host shall be able to have a web server to host.
- 5.1.6 The database host network shall be able to have good security.

5.2 Performance requirements

- 5.2.1 The website reload shall be able to provide fast service.
- 5.2.2 The website shall be able to have minified code to reduce file size.
- 5.2.3 The website shall be able to optimize image quick.
- 5.2.4 The website shall be able to use a performance monitoring tool to catch bottlenecks.
- 5.2.5 The website database server shall be able to expect multiple users without any delay.
- 5.2.6 The website database server shall be able to expect multiple requests.

5.3 Privacy

- 5.3.1 The website shall be able to provide clear and concise policies.
- 5.3.2 Users shall be able to agree on how their openly information may be shared.
- 5.3.3 The website shall be able to collect data like name, date of birth, email, and more personal information.
- 5.3.4 The website shall be able to avoid collecting unnecessary data.
- 5.3.5 The collected data shall be able to be used for improvement of the website and user experiences.
- 5.3.6 All confidential user data shall be able store encrypted data.
- 5.3.7 For more protection firewalls and protection systems shall be able be used.
- 5.3.8 Users shall be able to be trained not to share sensitive information.

5.4 Storage

- 5.4.1 The website shall be able to have a good amount of storage that can handle contests like food images, food recipes, food description and more.
- 5.4.2 The website shall be able to support all file formats and sizes for better and effective performance.
- 5.4.3 The website shall be able to have a limit on the maximum file size that can be uploaded to prevent excessive resource usage.
- 5.4.4 The website shall be able to have another storage for emergency backups.

5.5 Security

- 5.5.1 The website shall be able to use HTTPS. (Secure Transfer protocol).
- 5.5.2 The website shall be able to implement security measures to protect user data.
- 5.5.3 The website shall be able to have a strong password policy.
- 5.5.4 The website shall be able to use a password transcription method.
- 5.5.5 The website shall be able to offer multi-factor authentication to prevent unauthorized access.

5.6 Marketing and Legal requirements

- 5.6.1 Popular social media sites shall be able to be used to promote websites.
- 5.6.2 The website shall be able to be user friendly so any user can browse comfortably.
- 5.6.3 The information provided on the website shall be able to be clear for anyone to understand.
- 5.6.4 The website shall be able to select a specific target audience for marketing.
- 5.6.5 Links of the website shall be able to be pushed through emails and other forms.
- 5.6.6 The website shall be able to be branded.
- 5.6.7 The website shall be able to have a name and logo.
- 5.6.8 The website shall be able to accept feedback.
- 5.6.9 The website shall be able to protect itself-from any legal claims.

5.7 Content

- 5.7.1 The website will be using a clean and simple sans-serif font as it is easy to read and doesn't detract from the content.
- 5.7.2 The website will be using a clear hierarchy for headings, subheadings, and other important information. Additionally, using bullet points or numbered lists for ingredients and instructions can make the recipe easier to follow.

6. Competitive Analysis

6.1 Competitors analysis

Feature/Company	Competitor 1 Sidechef	Competitor 2 Yummly	Competitor 3 nytime.com	Competitor 4 BigOven	Competitor 5 epicurious
Weaknesses	<ul style="list-style-type: none"> -Recipes shared by company itself -Most features are available only for premium users 	<ul style="list-style-type: none"> - Must create an account for better use. It is not a social media site for food. Users don't share their own recipes. original recipe made by special chefs only. has a lot of options and tools. And this can be confusing to navigate. 	<ul style="list-style-type: none"> -Not usable unless paid for 	<ul style="list-style-type: none"> -Advertisements -Must create an account to access some of the basic stuff 	<ul style="list-style-type: none"> - Can't be sorted by author - Unlimited usage locked behind paywall

Strengths	<ul style="list-style-type: none"> -Step by step guided tutorials -Allows you to search based on dietary restrictions, occasion, cuisine, meal type, etc. -Partnered with Walmart for grocery shopping & delivery -Meal planner 	<ul style="list-style-type: none"> - The website is easy to navigate. -It has a lot of options and tools. -It has a vast collection of recipes. -It allows users to search for recipes based on (ingredients, cuisine, cooking time). -It has extra gadgets for sale. (Smart Thermometer). -Helps shopping and partnered with delivery services. 	<ul style="list-style-type: none"> -Premium users get curated recipes, suggestions, and a digital space to store their favorite recipes 	<ul style="list-style-type: none"> -Find recipes to use your leftovers and avoid wastage -Smooth user-interface 	<ul style="list-style-type: none"> - Easy to navigate user interface - Above and beyond ways to search for recipes - Allows you to save recipes
Pricing	Basic: Free Premium: \$4.99/month or \$49.99/year	\$4.99/month	Premium: \$5/month or \$40/yr.	Basic: Free Premium: \$2.99/month or \$24.99/year.	Premium: \$5 / month \$40 / year
Social Media	YouTube, Pinterest, twitter, Instagram, LinkedIn, Facebook	It is available in every social media.	YouTube, Pinterest, twitter, Instagram, LinkedIn, Facebook	YouTube, Pinterest, twitter, Instagram, LinkedIn,	Facebook, Twitter, Instagram, Pinterest, YouTube, Google

				Facebook, TikTok	+, Tumblr, RRS feeds
Onboarding Experience	Side Chef is a very user-friendly website and app that not only helps you find recipes of your choice but also helps do your grocery shopping for the meal. There are lots of filters to choose from to find your favorite meal plan.	Yummly is a cool web-app. That allows users to create an account for better use. Users are also allowed to select their dietary preferences and cooking skills, to personalize the user experience and recommend relevant recipes. It is an app where people look at food based on their needs, find, and cook meals prepared by professional chefs.	There aren't many options because it is a subscription service. Subscribers can access the digital cookbook and culinary guide across all platforms, which aid home cooks of all skill levels in finding, saving, and organizing the best recipes in the world.	Big Oven is a user-friendly website and app that allows you to take your recipes with you wherever you go, create grocery lists, cut down on food waste, and quickly share your favorite dishes with friends and family.	Epicurious is user-friendly, giving users a plethora of search options and an easy to navigate user interface. The recipes themselves provide an approximate time to prepare the meal, as well as a clear list of ingredients, and step by step instructions for users to follow.

6.2 Competitive feature analysis

Feature	Competitive 1	Competitive 2	Competitive 3	Competitive 4	Our feature
Text search	+	+	+	+	+
browse	+	+	+	+	+
post	+	-	-	-	+
comment	+	+	+	+	+
download	-	-	-	-	+

Note: + feature exists, ++ superior, - doesn't exist

7. System architecture and technologies

- Server Host: AWS EC2 1 vCPU 2GiB mem
- Operating System: Ubuntu Server 22.04 LTS
- Database: PostgreSQL 14.6
- Web Server: NGINX
- Server-Side Language: JavaScript / Node
- Web Framework: React
- IDE: VS studio,
- Web Analytics: Google Analytics
- SSL Cert: Lets Encrypt (Cert Bot) SASS: 3.

8. Checklist

- Team found a time slot to meet outside of the class GitHub master chosen – Done
- Team decided and agreed together on using the listed SW tools and deployment server – Done
- Team ready and able to use the chosen back and front-end frameworks and those who need to learn are working on learning and practicing – Done
- Team lead ensured that all team members read the final M1 and agree/ understand it before submission – Done
- GitHub is organized as discussed in class (e.g. master branch, development branch, folder for milestone documents etc.) — Done
- Executive Summary – Done
- Functional requirements – Done
- Team members finished their assigned Non-Functional Requirements – Done
 - a. System requirements – Done
 - b. Performance requirements - Done
 - c. Storage, security, environmental requirements - Done
 - d. Privacy – Done
 - e. Marketing and legal requirements – Done
 - f. Content –Done
- Team chooses a name for the project – Done
- Team members finished their competitor analysis – Done
- Team members finished their introduction on About us page - Done

9. Team member contributions

Team member	Contributions/Activities	Contribution score
Team lead: Yueling Liu	<ul style="list-style-type: none"> • Executive Summary • User case and use cases' diagram • Functional requirements • Privacy and content non-functional requirements • Data description for general user • Data description for authenticated user, author, admin, public photos, items • Edited and reviewed documentation • Set up meetings, assigned tasks to each team members • Revised documentation 	
Backend lead: Duncan Herington	<ul style="list-style-type: none"> • Executive Summary • User case • Defined functional requirements • Defined non-functional requirements for performance requirements • Competitive feature analysis • Assisted front-end of About us page 	7/10

Marcel Azouri	<ul style="list-style-type: none"> • Use case • use case diagram • Defined entities • Defined functional requirements • Defined non-functional requirements • Contributed one competitor analysis • Proofread documentation and provided feedbacks 	7/10
Priya Pradeep	<ul style="list-style-type: none"> • Contributed two use cases • Defined functional requirements • Contributed three competitor analysis • Helped revise M1V2 • Redefined two use case 	6/10
Nathan Le Howland	<ul style="list-style-type: none"> • Use case • Use case diagram, • Defined entities • Defined non-functional requirements • Chose techniques stacks • Set up servers • Creating GitHub branches 	7/10
Samuel Elias	<ul style="list-style-type: none"> • Use case • Defined functional requirements • Storage description, • Defined non-functional requirements • Contribute one competitor analysis 	5

Yasson Haddish	<ul style="list-style-type: none"> • Use case • Defined functional requirements • Defined non-functional requirements for System requirement, Marketing and Legal • Editing and revising documentation 	5
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