

SW Engineering CSC 648-05 Spring 2023

RecipeReel

T03 Milestone 1

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1. Executive Summary

Imagine for a moment that you're at home, scrolling through social media and trying to decide what to make for dinner. You come across a mouthwatering photo of a delicious-looking dish, and you can practically taste the flavor just by looking at it. But when you try to find the recipe, you're met with a frustrating experience. You must click through multiple links, read through long blog posts, and wade through pop-up ads just to find the recipe itself. And even then, the recipe may be poorly written or difficult to follow. This is a frustrating experience that many people can relate to, and it's one of the reasons why we're developing a recipe website. 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 it easier for home cooks to find and share recipes. As the popularity of cooking at home has grown, so too has the need for an easy-to-use, user-friendly platform to search, store and share recipes. RecipeReel seeks to provide a platform that is easy to use, powerful and efficient, and that will revolutionize the way people explore, store, and contribute formulas. Additionally, RecipeReel seeks to provide users with an opportunity to rate and comment on recipes, giving them an opportunity to help each other find the best recipes for their needs.

Users can add photos, cooking instructions, and ingredient lists, making it easy for other users to recreate the recipe at home. Recipes can be organized by categories such as cuisine type, meal type, and dietary restrictions, allowing users to find the perfect recipe for any occasion. It's unique features that offers a variety of elements and capabilities not available on other recipe-sharing websites focuses on a broad and diverse group. This includes individuals of all ages,

backgrounds, and cooking skill levels, ranging from beginners to experienced chefs from all around the world.

Individuals who are often passionate about exploring different cuisines and trying out new and exotic dishes, students and young adults who are just starting to learn how to cook for themselves, busy professionals who are looking for quick and easy meal ideas to fit into their busy schedules, and so many more fit on our categories who can be potential visitor that would enjoy the services our platform provides.

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.

1. Use Cases

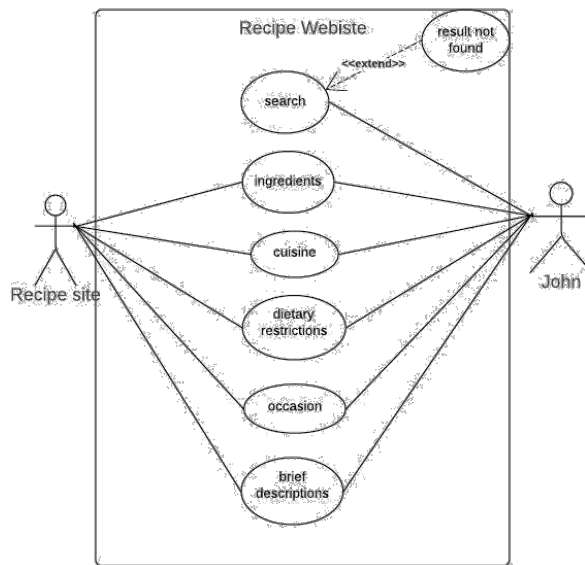
2.1 Use case: Dining out is too expensive for a birthday meal.

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 Use case: Bored of local foods.

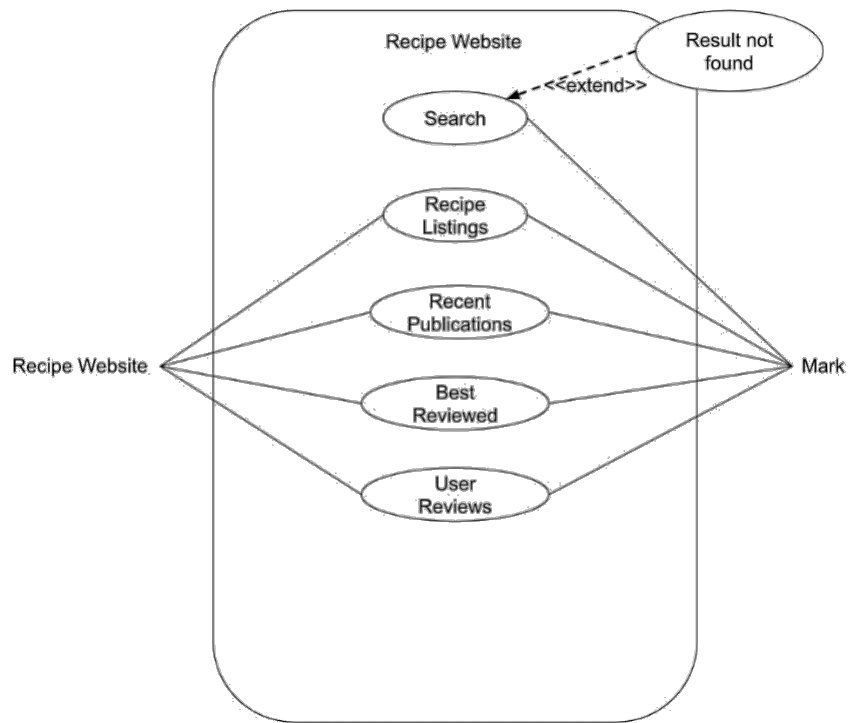
Actor: General User (Mark): Searching to find new foods to try.

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 RecipReel, 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 for Mark to easily search through the websites listing of recipes by recent publications. This gives Mark, a new user of the website, an easy way to search for the newest recipes to try out himself. 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 Use case: Cook with what you have.

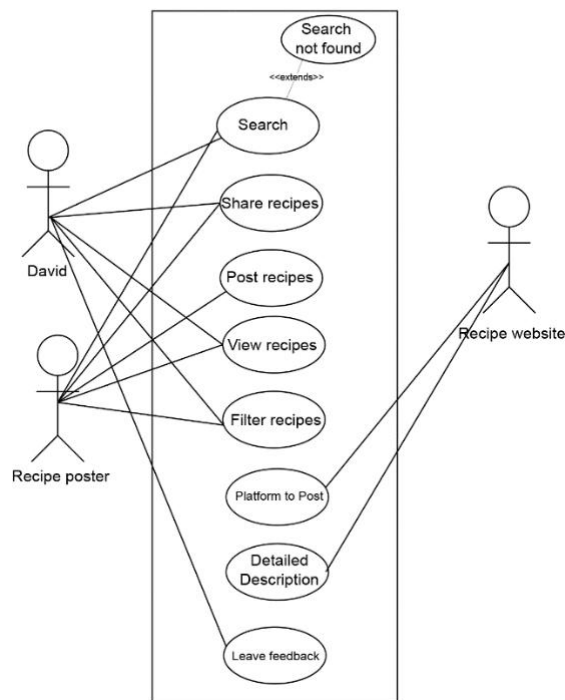
Actor: Construction worker (David)

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 Use case: Home cooks can follow their favorite chefs to learn recipes that they post.

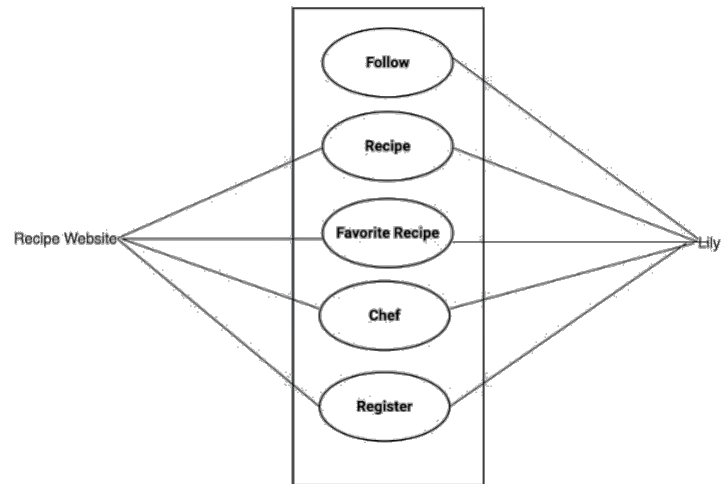
Actor: Lily, Mary

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 Use case: Homestay owner cooks variety food for international students.

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

Description:

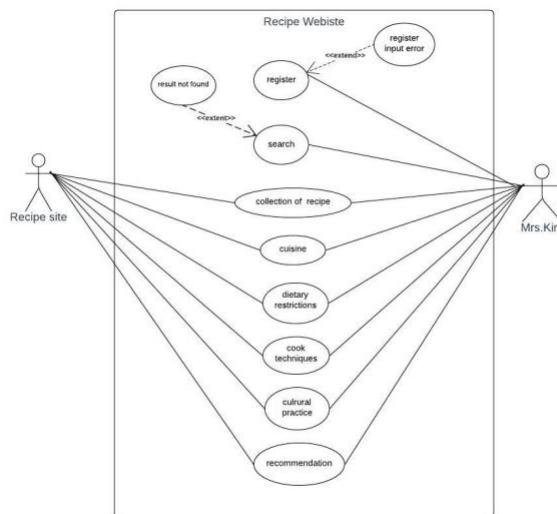
Mrs. Kim is a homestay owner who lives in the United States. She loves taking care of international students who come to study in the country. For Mrs. Kim, it was more than just a job - it was a passion. One of the things that Mrs. Kim takes pride in is providing delicious meals for her students. She 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 dishes.

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 RecipeReel, 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 Use case: share family cooking recipes with the world.

Actor: Bob, a stay-at-home dad

Description:

Bob has been collecting family recipes for years and is now ready to share them with the world. He discovers RecpieReel, a website that allows users to share recipes with the world. Bob signs up for an account and browses through the recipes shared by other users to get an idea of what kind of recipes RecipeReel handles. He clicks on the “Share Recipe” button and is taken to a page where he can enter the details of his recipe, including ingredients, cooking time, and instructions. Bob uploads a picture of his completed dish and enters any additional notes he wishes to include, then clicks the “Share Recipe” button to submit his recipe. He receives a confirmation that his recipe has been shared and is now available for the world to see. Bob is excited to use RecipeReel to share his family recipes with the world. He likes the idea of having his recipes available for the world to see and can take pride in knowing that his recipes are helping others make delicious dishes. Additionally, RecipeReel makes it easy for Bob to upload his recipes, add pictures of his completed dishes, and even make changes to the recipes if he needs to. With RecipeReel Bob can easily share his family recipes with the world and help others make delicious dishes.

2.7 User case: Share Special Ingredient with 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.

2.8 Use case: Promote Food-Related Products on a Food-Sharing Website.

Actor: Sam (Ecommerce Advertiser)

Description:

Sam is a food enthusiastic and Ecommerce person who sells kitchen goods online.

As an advertiser on a food-sharing website, Sam shall reach a targeted audience of food enthusiasts like him by promoting food-related products like cookbooks, kitchen gadgets, and ingredients and drive his sales. To achieve this, Sam would be happier if he could find a website or a platform that enables him to find his target audience based on their interests, which is related to cooking and food only.

Sam would then create visually appealing ads that showcase his products and highlight their unique features and benefits, such as helping users cook more efficiently, improving the taste of their dishes, or adding variety to their recipes.

Overall, advertising on a food-sharing website can be a highly effective way to reach a passionate and engaged audience of food enthusiasts and drive business growth.

2.9 Use case: Losing weight with dietary restrictions.

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. Along with that she wants to lose weight, however she has health issues that requires her to include certain food in her diet and she has no clue how to do that. She wants to make healthy food, as she has two young kids and help her lose weight. RecipeReel would help her set her preferences and provide her with a tailored list of recipes that would help her achieve a healthy and nutritious lifestyle. In Pamela's case, she could set her dietary restrictions, choose to include certain ingredients and time to prepare the meal.

2.10. Use case: Love junk food but want to make the same thing healthier.

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. Coming home, she doesn't enjoy her mom's food, as her taste buds are accustomed to the taste of junk food. Her mother wants her to eat healthy as she is a growing child and wants her to experience the taste of home cooked meals as well.

RecipeReel was the website that helped Jessica find recipes that substituted the unhealthy ingredients in the recipes for the food that Christine prefers to eat out. This not only helps Jessica attain her goal of giving Christine a healthy meal, but also satisfies Christine's criteria.

3. List of main data items and entities

- Search
- Ingredients
- Cuisine
- Dietary Restrictions
- Occasion
- Brief Description
- Follow
- Recipe
- Favorite Recipe
- Chef
- Post
- Share
- Recipe Listing
- Recent Publication
- Best Reviewed
- User Reviews
- Sign up.
- Browse
- Detail of recipe
- Cooking time
- Instructions

- Categorized
- Recommendation
- Cooking techniques
- Register

4. Initial list of functional requirements.

4.1 General User

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

4.1.21 User shall be able to view recipe detail such as preparation time.

4.1.22 User shall be able to view recipe detail such as difficulty level.

Data description:

As a general user, there are several things that user can do on RecipeReel to enhance their cooking and baking skills, including:

- **Search for Recipes:** The primary function of a RecipeReel is to provide a database of recipes for users to browse and search. A general user can search and find recipes for a particular dish, cuisine, or ingredient. This doesn't require the user to register or log in an account.
- **Browse Categories:** RecipeReel categorizes recipes according to cuisine, course, dietary restrictions, and occasion. A general user can browse these categories to find inspiration for a meal or event.
- **Filter Recipes:** RecipeReel offers users the option to filter recipes by ingredients, authors, or dietary restrictions. A general user can filter recipes that he/she finds interesting and want to try later.

Overall, as a general user, RecipeReel is an excellent resource for finding new and exciting recipes, expanding users' cooking knowledge, and connecting with other users of like-minded food enthusiasts.

4.2 Registered User:

4.2.1 Users shall be able to log in.

4.2.2 Users shall be able to log out.

- 4.2.3 User shall be able to edit profile.
- 4.2.4 Users shall be able to share a post of recipe.
- 4.2.5 Users shall be able to get recommendation when they are not sure what to cook.
- 4.2.6 Users shall be able to download the recipes from the website.
- 4.2.7 User shall be able to filter by ingredients.
- 4.2.8 Users shall be able to search by ingredients.
- 4.2.9 Users shall be able to filter by dietary restrictions.
- 4.2.10 Users shall be able to change their password.
- 4.2.11 Users shall be able to change their email.
- 4.2.12 User shall be able to see registered tag.
- 4.2.13 User shall be able to delete their post.
- 4.2.14 User shall be able to archive their post.
- 4.2.15 User shall be able to not see promotions.
- 4.2.16 User shall be able to view recipe details such as ingredient.
- 4.2.17 User shall be able to view recipe detail such as preparation time.
- 4.2.18 User shall be able to view recipe detail such as difficulty level.
- 4.2.19 User shall be able to follow other users or chefs to receive updates and see their recipe collections.
- 4.2.20 User shall be able to leave comments or feedback on recipes to ask questions or provide suggestions.
- 4.2.21 User shall be able to rate and review recipes.

Data description:

An authenticated user can access additional features and capabilities beyond those available to general users. These features typically require a user to create an account and log in to the website. Here are some of the things that an authenticated user can do on RecipeReel

- **Save and Organize Recipes:** Authenticated users can save recipes to their personal recipe box or cookbook, which makes it easy to access their favorite recipes and organize them by category or occasion.
- **Contribute Content:** Authenticated users can contribute to the recipe website by submitting their own recipes, photos, and cooking tips. This allows the user to share their own expertise and potentially gain a following of their own.
- **Engage with the other users:** An authenticated user can engage with the other users by leaving comments or feedback on recipes that they have tried, or by answering questions from other users.
- **Customize experience:** Authenticated users can customize their experience on the recipe website by setting preferences for cuisine, dietary restrictions, and other factors that affect recipe recommendations. This allows the user to get more personalized recipe suggestions based on your tastes and preferences.

4.3 User Authentication

4.3.1 User shall be verified using email.

4.3.2 User shall be verified using password.

4.3.3 User shall be able to verify using phone number.

4.3.4 User shall be verified using Two - factor authentication.

- 4.3.5 User shall be able to get new password if forgotten.
- 4.3.6 User shall be able to change password.
- 4.3.7 User shall not be able to change email.
- 4.3.8 Users shall be able to log in/out.
- 4.3.9 Users shall be able to share a post of recipe.
- 4.3.10 Users shall be able to delete a post of recipe.
- 4.3.11 Users shall be able to save a post.
- 4.3.12 Users shall be able to like a post.
- 4.3.13 Users shall be able to dislike like a post.
- 4.3.14 Users shall be able to leave reviews on recipes.
- 4.3.15 Users should be able to follow other authenticated users.
- 4.3.16 Users shall be able to change their password.
- 4.3.17 Users shall be able to change their linked email address.
- 4.3.18 Users shall be able to change their usernames.
- 4.3.19 Users shall be able to change their pass.
- 4.3.20 Users shall be able to filter recipes by who they're following.

Data description

Autor:

An author on a recipe website is someone who creates and publishes content related to cooking, baking, and food. The author is the person who owns the copyrights and posts them on our website.

- Create and publish recipes: The author can write and publish their own original recipes on the website. They can include details such as ingredients, cooking instructions, and serving suggestions.
- Edit existing recipes: The author can edit existing recipes on the website to improve the recipe or make it more suitable for different dietary needs.
- Add or delete photos: The author can add/ delete photos or videos to their recipes to make them more engaging and helpful for readers.

Admin:

The admin is our team, and we will be responsible for managing the website and ensuring that it functions smoothly. We will be maintaining the website's design, security, and functionality, as well as overseeing the content published on the website. Our database master will be responsible for managing user accounts, moderating comments, and user-generated content, and handling technical issues related to our website.

Public Photos:

Public photos can be uploaded by the recipe author or website administrator, these photos are accessible to anybody, and they are approved by authors.

Items:

The items include:

- A Collection of recipes that are available for users to browse, search, and access.
- Public photos that are accessible to anybody and approved by authors.

- Categories or tags: Recipes may be organized into categories or tagged with keywords to make it easier for users to search and find relevant recipes. Common categories include cuisine type, dietary restrictions, and meal type.
- User ratings and reviews. RecipeReel allows users to rate and review recipes they have tried, to provide feedback to other users and help them make informed decisions about which recipes to try.
- Cooking tips and techniques: RecipeReel offers additional content such as cooking tips, tutorials, and articles on related topics such as kitchen tools and equipment.
- User accounts: RecipeReel allows users to create accounts, which offer additional features such as the ability to save and organize favorite recipes, lists, or share recipes with friends and family.
- Share with friends and family. RecipeReel allow users to navigate to the recipe and share with friends or family. It doesn't require the user to login.

5. List of non – functional requirements.

5.1 System requirements:

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

5.2 Performance requirements:

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

5.3 Privacy:

- 5.3.1 The website shall provide clear and concise policies.
- 5.3.2 User shall agree on how their openly information may be shared.
- 5.3.3 The website shall collect data like name, date of birth, email, and more personal information.
- 5.3.4 The website shall avoid collecting unnecessary data.

- 5.3.5 The collected data shall be used for improvement of the website and user experiences.
- 5.3.6 All confidential user data shall be stored encrypted.
- 5.3.7 For more protection firewalls and protection system may be used.
- 5.3.8 Users shall be trained not to share sensitive information.

5.4 Storage:

- 5.4.1 The website shall 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 support all file formats and sizes for better and effective performance.
- 5.4.3 The website should have a limit on the maximum file size that can be uploaded to prevent excessive resource usage.
- 5.4.4 The website shall have another storage for emergency backups.

5.5 Security

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

5.6 Marketing and Legal requirement

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

5.8 Contact

- 5.8.1 The website shall provide way to contact with administrators for any enquiries.
- 5.8.2 The website contact information shall be accessed easily.
- 5.8.3 The website shall constantly respond to users.

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 for food. -Users don't share their own recipe. -Original recipe made by special chefs only. -It 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 	<ul style="list-style-type: none"> -The website is easy to navigate. 	<ul style="list-style-type: none"> -Premium users get curated recipes, 	<ul style="list-style-type: none"> -Find recipes to use your 	<ul style="list-style-type: none"> - Easy to navigate user interface

	<ul style="list-style-type: none"> -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"> -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"> suggestions, and a digital space to store their favorite recipes 	<ul style="list-style-type: none"> leftovers and avoid wastage -Smooth user-interface 	<ul style="list-style-type: none"> - Above and beyond ways to search for recipes - Allows you to save recipes
Pricing	Basic: Free Premium: \$4.99/month or \$49.99/yr.	\$4.99/month	Premium: \$5/month or \$40/yr.	Basic: Free Premium: \$2.99/month or \$24.99/yr.	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, TikTok	Facebook, Twitter, Instagram, Pinterest, YouTube, Google +, 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 come down to 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 user experience and recommend relevant recipes. It is an app where people look at food based on their	There aren't many options because it is a subscription service. Subscribers can access the digital cookbook and culinary guide across all platforms and 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	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

		needs, find, and cook meals prepared by professional chefs.		friends and family.	instructions for users to follow.
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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: 3.5.

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.
- Non-Functional requirements – Done.
 - System requirements – Done.
 - Performance requirements - Done.
 - Storage, security, environmental requirements - Done.
 - Privacy – Done.
 - Marketing and legal requirements – Done.
 - Content –Done.
 - Contact – Done.
- Team chooses a name for the project – Done.
- Team members finished their competitor analysis – Done.

9. Team member contributions

Team member	Contributions/Activities	Contribution score
Yueling Liu	Executive Summary, user cases, use cases' diagrams, functional requirements, privacy and content non-functional requirements, Data description for general user, authenticated user, author, admin, public photos, items; Editing, revising document, set up meetings, emailing members and organizing tasks and documentation	
Duncan Herington	Executive Summary, user case, functional requirements, non-functional requirements for performance requirements, Competitive feature analysis, Creating About us page	7
Marcel Azouri	Use case, use case diagram, entities, functional requirements, non-functional requirements, one competitor analysis. Reviewing documentation providing feedbacks	7
Priya Pradeep	Two use cases, functional requirements, three competitor analysis	6
Nathan Le Howland	Use case, use case diagram, entities, non-functional requirements, chose techniques stacks, set up servers, creating GitHub branches. Deploying website	8
Samuel Elias	Use case, functional requirements, storage, non-functional requirements, one competitor analysis.	6
Yasson Haddish	Use case, functional requirements, non-functional requirements for System requirement, Marketing and Legal. Editing and revising documentation	7