Software Requirements Specification

Food-web app

Team list

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Introduction

a. **Product description:** The purpose of this document is to describe the web-app that our group will make for the software engineering class final project. The web-app is a food-focused social network that is created for anyone who wants to cook where everyone plays a part in helping the community discover and share the joy of home cooking. Our web-app targets everyone who wants to cook at home because of several reasons. Especially for a time as such where we all are on a lockdown due to self-quarantine, what an exciting idea it is to have someone to cook with.

b. **Scope** The "SimpleRecipe" is a user-information-based web application that helps users find the most popular recipe based on other specifications of the type of food such as the most light refreshments recipe, different type of recipe, food and more.

Users can use the web-portal to provide their own recipe information. This information serves as the basis for the search results presented to the user. Administrators also use web-portals to manage systems and keep information accurate. For example, an administrator can check a user's recipe and manage user information.

Furthermore, the software requires the Internet and user information connection to bring results and display them. All system information is retained in the database located on the Web server. Users can browse the food by looking at the recipe they want. Users also have the ability to post their own recipes and to display both information and details.

c. **Users**

Our intended groups of users are people in any different age groups who don't have technical issues understanding and using our website regardless of their educational level or physical disabilities. Some of the groups that we aim include college students, house wifes, self-quarantined individuals, food experts and food hobbyists.

D, User feedback

Feedbacks related to the ease of using the web-app would definitely be useful as users tend to not use web-apps that looks is complicated and uneasy to grasp. We have asked some of our friends who are college students here in SUNY Korea. They pointed out that the ability to match possible meals given ingredients entered from the user would definitely be what they would need at lockdowns like the current situation.

E, Existing alternatives

There are other alternatives that can be used instead of our web-app. For instance, people can search on YouTube with the ingredients they want and they could find videos. There are also other web-apps like superCook and Allrecipes that could be used by users.

Strengths:

- An ability to share a recipe and benefit the community

- An ability to find all categories of foods in an organized manner which could definitely alleviate the efforts users make to search for exact dish they want on YouTube or other platforms.

- An ability to render possible dishes based on entered ingredients.

Weaknesses: We have done research on existing alternatives and that has influenced our designs and feature decisions. For example, we are incorporating popular features like general search using food categories as filters, user registration, using stars for rates and reviews and heart icons for liking recipes which is used both in 'Allrecipes' and 'superCook' websites.

F, References

https://www.allrecipes.com/recipes/?grouping=all&page=4

https://www.supercook.com/#/recipes

https://colorlib.com/wp/?s=Food+&v=38dd815e66db

https://foodcombo.com/

https://www.google.com/search?q=chat+box&rlz=1C9BKJA_enKR785KR786&hl=en-GB&prmd=ivn&sxsrf=ALeKk03Qi5eT0jvmZ8VRhcI2TJwWMkxpoQ:1585931065826&source=lnms&tbm=isch&sa=X&ved=2ahUKEwjC-cPO1czoAhXWc3AKHRqrAcIQ_AUoAXoECA4QAQ&biw=1024&bih=659&dpr=2#imgrc=4vjVXBmYnSiyFM

Requirements:

Key Features

Major

1. General Text Based Search with different filtering options

2. Display of uploaded recipes in different categories

3. Live streaming

4. Messages and inbox

Minor

1. Login and Signup

2. Followers and Wall(Profile page)

3. Newsfeed

Use Cases

General Search *(essential)* **:**

    P1) The user is on the home page and he wants to make a general search.

The user must first type the keywords, related to his desired output, in the search bar. On click of the search button, a list of all recipes and posts matching the keywords will be displayed below the search button. These will be sorted according to the number of likes and views. After the search is complete, the user shall be able to scroll on the research results. On click of a search result, the user shall be redirected to that particular page.

    P2) The user is viewing the list of general search results and wants to filter them further. The user shall be able to view and click on orderby, videos, photos, recipes button.

1) On click of the orderby button, the "recent on top" and "old on top" buttons shall pop up. On click of each of these, the search results shall be filtered according to 'the most recent on top or the most recent on the bottom respectively.

2) On click of the videos button all non-video search results shall be removed for the result list.

3) On click of the photos button all non-photo search results shall be removed from the search result list.

4) On click of the recipe button all non-recipe posts search results shall be removed from the search result list.

Filter Search for recipes by ingredients *(essential)***:**

> **P1)** The user is on the home page and has clicked search by ingredient option. The user shall be able to search for recipes based on ingredients listed in the categories, where the user adds the ingredients that he/she wants to be included in the recipe, and the app shall provide with certain recipes that include the ingredients entered. The user shall also see the uploader of the recipe and the reviews at the same time in that separate page where a detailed explanation is given. By clicking the review button the user shall be linked to a review page where he/she is allowed to enter their reviews and rate the owner.

Create and Post Recipes *(essential)***:**

> **P1)** Users shall post recipes and ingredients on their profile(wall). Before their post is approved, they shall be asked to provide information about the recipes and the food that can be prepared using them. Using the information received from the user, the system shall keep the post under some category.

Categorise Recipes *(essential)***:**

> **P1)**Since users are required to provide information about their recipes before posting, the system shall use the information received to categorize the recipes. Users shall not be expected to manually categorize recipes.

View Recipes the list of all recipes in different format *(nice to have)***:**

P1) The system shall be expected to have a list of categories. The categories may vary in type. The recipes may appear in more than one category. For example, there might be a recipe that goes under the vegetarian category and also some other flavor category. The system, after receiving information about the recipes from users' posts, automatically puts the recipes under a certain category/categories.

Post Videos *(nice to have)***:**

P1) Users shall also be encouraged to put up videos of them cooking. As people find seeing others cooking easy to follow steps, users who frequently post videos will be rated highly. Users post their videos on their profile, and the system shall keep record of viewers. Number of views shall be displayed under the video. However, viewers' information shall not be displayed publicly.

Post Pictures *(nice to have)***:**

P1) Users shall also take photos of the ingredients they use and post them on their profile(wall). The system shall recommend them to put up the photos so that other users shall be able to have a great deal of information about both the ingredients and the recipes.

Login *(essential)***:**

P1) The user can login from the home page. Upon clicking a login button on the home page the user will be redirected to the login page. The user shall be prompted to enter

credentials, use their social media for logging in or to to sign up if they do not have an account.

Signup *(essential)***:**

P1) The user can sign up to register an account. After visiting the Login page, the user can click the signup link to be redirected to the signup page.

The user shall be asked to either signup with his social media platform or to enter user credential. After successful signing up the user shall be redirected to the home page

Live streaming *(essential)***:**

P1) The user shall be able to stream live videos. From his personal page, the user shall click the live stream button. Upon click, the user shall be asked to either share the video to followers or send a private link. The user shall be asked to turn off default live chat. After finishing configuration the user will be redirected to the livestreaming page.

P2) On the livestream page, the user can click the "allow live stream viewers to join the stream" button. Upon click, the user shall be able to allow views that requested to join the stream.

P3) Viewers and hosts of the live stream shall be able to post comments or communicate through the live chat box. Logged in viewers shall be able to type a comment and click on the comment button to submit it. The comment shall immediately appear on the comment display and everyone can see it.

P4) The host shall be able to disable particular users from commenting . He shall be able to click on the username of a viewer and select disable from commenting.

Messaging *(essential)***:**

P1) On visiting a personal page, a user shall be able to private message the page owner, unless blocked. The user shall click the message button which will trigger the chat box to popup. The user shall be able to read previous messages as well as send new text messages.

Likes *(essential)***:**

P1) Users shall be able to like posted pictures, videos, and recipes. Each post shall have a like icon button below. Upon click of the button, logged in users shall be able to increase the likes by one.

P2) If the user has already liked the post, he will be able to unlike it. After clicking the unlike the like count will be reduced by one.

P3) If a user's post has been unliked, the user shall receive the notification of who has liked the page as well as the link to the post.

Feedback *(nice to have)***:**

P1) Logged in users shall be able to give feedback on any posts. After clicking the feedback button at the button of a post, a text area shall appear. The user shall then add text and click submit.

P2) On submission of a feedback, the user shall be able to continue reading posts, and the post's owner shall receive a feedback notification with a link to the feedback message. The post's owner then shall be able to read and respond to the feedback by clicking a response button.

Block user *(nice to have)***:**

P1) Logged users shall be able to block a particular user viewing their pages, posts and messaging them. To block a user, the "to block" user shall be able go to his settings page and click blocked users. A list of blocked users shall appear and he shall be able to add a user to the list by clicking the "add to blocked" button. Onclick a search bar shall appear and the "to block" user shall be able to type the username of the "to be blocked" user. After a successful search the "to block" user shall be able to click on the "to be blocked" user name to add him to the list. After the user has been added to the list, he has been successfully blocked.

Deleting policy violating posts *(essential)***:**

P1) The user has logged in with admin credentials and is on the admin panel.

Users shall be able to search and view posts. Upon noticing a violation, the user shall be able to click add delete posts. On click of the delete button, the posts shall be deleted

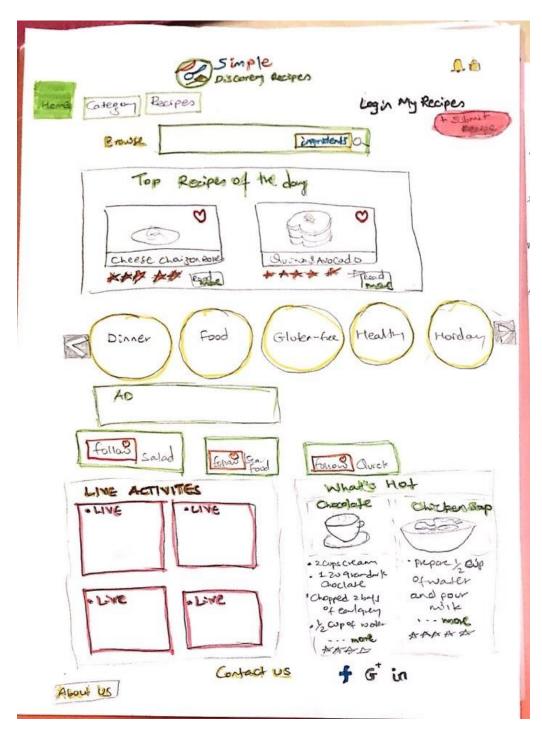from the post shall be sent to the recycle bin database and an activity record shall be kept. All admin users shall be able to see who deleted what on the panel.

Terminating policy violating Users *(essential)***:**

P1) User has logged with admin credentials and is on the admin panel. The admin user shall be able to view and search users. Upon selection of a general user, the admin user shall be able to click and terminate a general user's account. Notification with details shall be sent to the general user. Upon account termination a detailed notification shall be sent to all admin users.

P2) User has logged in with admin credentials and wants to recover a terminated account. Admin users shall be able to search for terminated users and click restore. Upon click, a notification shall be sent to the account owner.
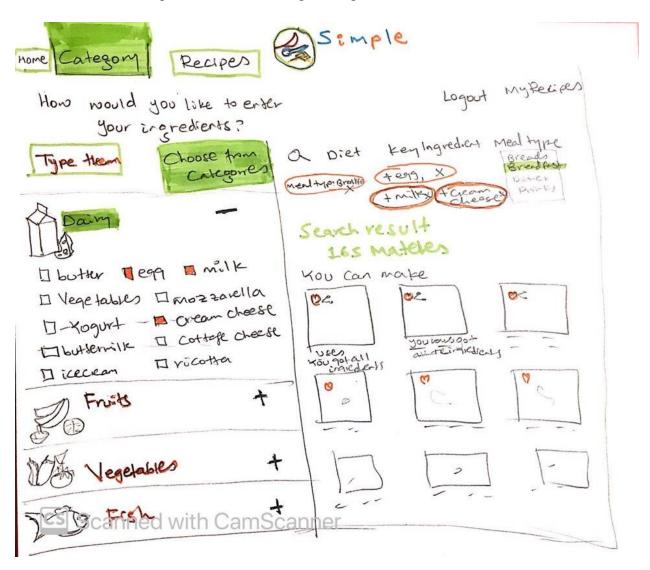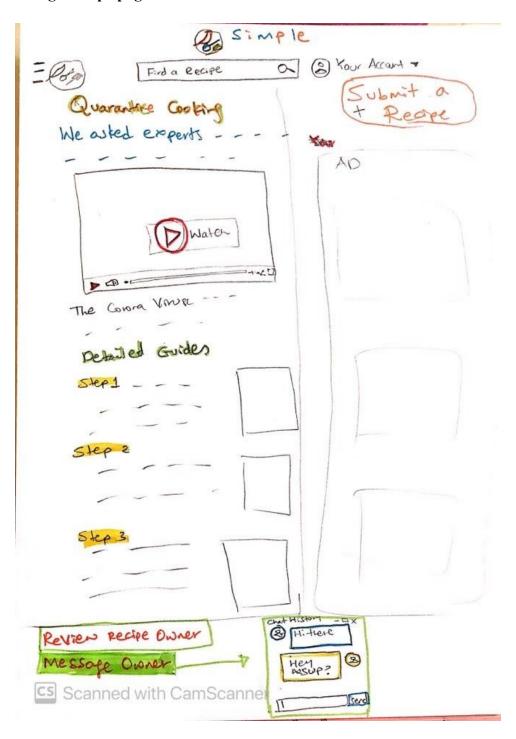
User Interfaces

Home page

Categorical Ingredient search

:- search matches with possible meals in the given ingredients.

A single recipe page

Simple

Find a recipe

Your Account ▾

Submit a Recipe

Quarantine Cooking
We asked experts - - - - -
- - - - - - - - - -

AD

▷ Watch

The Corona Virus - - -

Detailed Guides

Step 1 - - - -

Step 2

Step 3

Review Recipe Owner

Message Owner →

Chat History - ☐ ✕
Hi there
Hey
wassup?
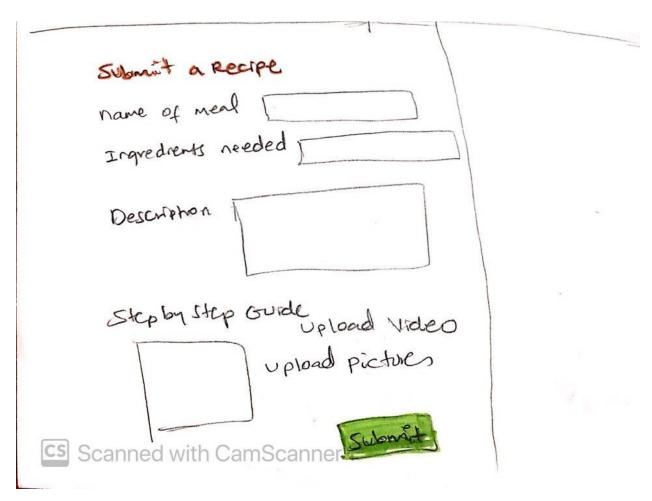
Send

The above page should show up when a recipe from the lists either in the home page or category page is clicked. For example, "on top recipes of the day" one of the recipes listed could be "quarantine cooking" and when that is clicked it should lead to the above separate page that has a detailed explanation. Since the page is uploaded by a user it has an owner. And at the bottom the person who visited the page can review recipe owner or message the owner by clicking the green buttons shown at the bottom of the page.

Create a Recipe page

Review Page

Schedule

Requirement	Description	Deadline
Posting recipes and uploading photos/videos.	- Prepare a form users should fill in about their recipes before their posts get approved. -After the posts are approved, the systems should retain the information received in the database. - Create a feature on our website where users can upload multiple photos and videos.	April 20
Display of uploaded recipes in different categories.	- Prepare a list of categories where uploaded recipes get displayed. - Retrieve information about the recipes from the database and based on the information provided, post the recipes under categories.	April 30
General Text Based Search		May 10
Live streaming		May 20
Sign up /Sign in		May 30
Messages and inbox		May 30

Profile/ Likes		May 30