

Final Project Proposal

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Project Overview

We propose a social networking app with a focus on food. This social media app will have standard networking features where users can post, reply to, and rate content; follow other users, and message other users. Our app's core feature is the ability to browse appealing food content and then be able to recreate it by viewing recipes attached to said post. Posts that have recipes will be promoted to other users and those users will be encouraged to reply with their own rendition. The goal of this app is to encourage users to cook themselves and promote their culinary medium to others, with an emphasis on congratulating and supporting amateur cooks and foodies.

User Requirements

Users

- As a user without an account I want the ability to view posts, recipes, and ingredients without the need of logging in
- As a user I need the ability to create and login to an account that's tied to my posts and recipes so that I can manage my social profile and share cooking information
- As a user with an account I need the ability to change account info and recover my password so that I can have an accessible social profile tailored to my liking
- As a user I need the ability to post, share, and comment about food recipes so that I can improve my culinary skills and provide feedback to others
- As a user I need the ability to easily navigate the site so I can find the various resources available
- As a user I want a way to make and message friends so that I can exchange ideas with them
- As a user I want an ability to quickly research ingredients so that I can broaden my understanding and so that I can easily find where they are sold.

- As a user I want the ability to search recipes, accounts, and/or ingredients by category or name so that I can easily find the resources I want for my cooking style
- As a user whose a food critic and often on the move I need the ability to use this site through my mobile phone so that I can review recipes and share cooking concepts on the go
- As a user I want recommended material that's tailored based on what I like so that I can more easily find more recipes that relate to my cooking style
- As a user I want a way to submit problems or recommendations about the site, when I have them, so that I can help improve my favorite cooking social platform
- As a user I want the ability to block or censor posts or users that I don't want to see

Moderators

- As a moderator I need a panel that will show monitored site activity and report requests in a way that I can easily sort through so that I can perform my moderation duties to clear the site of inappropriate material
- As a moderator I want some kind automated recognition for inappropriate content so that my duty to clear the site of this content can be alleviated into a more manageable quantity
- As a moderator I want some sort of feature to connect me and the other staff/admins so that we can discuss moderation duties and organize effectively

Technical Specifications

Technology Stack

Frontend: React Native

Backend:

- .NET
- C#
- Docker

Database: SQL Server

Media storage: S3 Bucket

Version Control: Git/GitHub

Hosting: AWS

- Elastic Container Service (ECS)
- Relational Database Service (RDS)

- Simple Storage Service (S3)

Database Architecture

Users: Contains each user's information such as:

- username
- first_name
- last_name
- email
- profile_picture
- biography

Roles: Contains each user's role.

UserFollows: Contains which user each user is following.

UserRelationships: Contains a user's relationship to other user ex. "friend", "blocked".

Messages: Contains messages between two user's.

Posts: Contains posts a user has made recipes can be attached but is not required.

PostLikes: Contains user's likes on a post.

PostMedia: Contains urls to a post's media stored on S3 Bucket.

PostComments: Contains any user comments on each recipe.

Recipes: Contains a recipe's information such as:

- user_id
- title
- description.

Ingredients: Contains all ingredients and their information.

RecipeIngredients: Contains the ingredients that belong in each recipe.