**CS 307 Product Backlog**

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**Problem Statement**:

There are a number of different sites that offer recipes but when you google a recipe and 100+ recipes show up, it becomes difficult to decide on which one to choose. Help-Me-Recipe will make choosing recipes easier. While there are other sites that provide a service close to this, Help-Me-Recipe will provide a larger number of tags and a rating system for people who post recipes, as well as giving recipe ideas based on ingredients you have at home and stores that are near you.

**Background information:**

**Domain**: This website will be focused on food and social media/sharing.

**Audience**: Anyone with an interest in cooking who wants to share and learn recipes while connecting with many other like minded individuals. We would like to provide a platform for new and inexperienced cooks by providing meal plans that meet their specifications.

**Similar Platforms**: There are several sites that solely focus on providing recipes for the user base. These websites are collegerecipes.com, delish.com, and allrecipes.com. Each service categorizes recipes and allows users to find specific meals which fit their ingredients and interests. Our website will allow users to narrow their search as well as provide a rating system for recipes. Users will also be able to follow and message others, making Help-Me-Recipe more social than the other sites.

**Limitations**: We found some limitations that these other sites have. We believe that food websites like allrecipes do a good job of presenting recipes but do not give users enough options to connect with each other and build a community. Collegerecipes has an unwelcoming and unprofessional user interface that could be greatly improved. Delish has a very poor recipe search function and much of the websites content is low quality. We want to create better filters for our users to search for recipes, this way finding recipes will be effortless and simple. Also, since we are expecting college students to be a big part of our user base, we want them to be able to search based on the specific budget they have.

**Backlog:**

***Functional*:**

1. As an unregistered user, I would like to be able to register for a Help-Me-Recipe account.
2. As a user, I would like to set my display name.
3. As a user, I would like to set a profile picture.
4. As a user, I would like to be able to give personal information in my profile.
5. As a user, I would like to be able to search for a specific recipe.
6. As a user, I would like to be able to filter out recipe prices in my search.
7. As a user, I would like to be able to filter out recipe ingredients in my search.
8. As a user, I would like to be able to filter out keywords in my search.
9. As a user, I would like to find recipes depending on the calories they have.
10. As a user, I would like to be able to search for recipes depending on my kitchen utensils.
11. As a user, I would like to be able to login to my account.
12. As a user, I would like to be able to reset my account password if I forget it.
13. As a user, I would like to be able to directly message other Help-Me-Recipe users.
14. As a user, I would like to be able to rate other user recipes out of 5 stars.
15. As a user, I would like to be able to post my own recipes.
16. As a user, I would like to indicate the ingredients that my recipe requires.
17. As a user, I would like to indicate the nutritional values of my recipes.
18. As a user, I would like to see my own activity in the social feed.
19. As a user, I would like to be able to follow other users which will allow me to see their activity on my social feed.
20. As a user, I would like to be able to receive notifications about new followers/ratings..
21. As a user, I would like to be able to save my favorite recipes.
22. As a user, I would like to be able to view my favorite recipes.
23. As a user, I would like to be able to choose between different cuisines.
24. As a user, I would like to indicate my cooking experience level.
25. As a user, I would like to be able to like/dislike other user posts.
26. As a user, I would like to be able to share/post video on the recipe.
27. As a user, I would like to create weekly meal plans.
28. As a user, I would like to share weekly meal plans for others to use.
29. As a user, I would like to view weekly meal plans shared by others.
30. As a user, I would like to be able to see how long it takes make a recipe.
31. As a user, I would like to be able to post/share pictures of the food I make.
32. As a user, I would like to be shown nearby stores on google maps.
33. As a user, I would like to have a checklist made out of the ingredients of a recipe.
34. As a user, I would like to comment on other people's recipes.
35. As a user, I would like to view instructional videos which explain how to cook a dish, when available.
36. As an admin, I would like to have the ability to delete posts.
37. As an admin, I would like to have the ability to ban/delete users.
38. As an admin, I would like to create groups of similar recipes for users to see.
39. As an admin, I would like to showcase recipes of my choice.
40. As a user, I would like to see whether ingredients are in stock at stores around me. (if time permits)

***Non-Functional*:**

**Platform/Hosting**: Help-Me-Recipe will be a web app available for all customers. The app will be hosted on a cloud service, Heroku. The app will be divided to back-end and front-end for to make it easier to work as a team. The backend will be implemented using Flask and SQL. Front-end will be designed using HTML/CSS and Javascript with Bootstrap as a framework.

**Security:** Help-Me-Recipe should be a secure platform to all information is securely stored in the database. Every user should be authenticated in a secure way to log in. Only the user who posts the recipe should be able to edit the recipe. In our direct message feature, all conversations should be securely stored to prevent other people from accessing. The webapp should have security features that prevent SQL injection for cross-site scripting.

**Usability**: The interface must be easy to use and navigate. The search bar should be easy to use, providing different tags for advance searches while staying readable. When a user is creating a recipe, the input layout should be easy to navigate and understand so the user can know exactly what information they need to put in. The recipe page should be simple for the users to read with step by step directions.

**Scalability/Performance**: We will be using Heroku as our web app hosting service, it allows a maximum of a 1000 hours/month but if necessary it can be upgraded. There will be a minimum latency for our search function. SQL sets a limit of 1 GB of memory used and 10GB size limit for each relational database .