Mixology Application

Product Backlog

https://github.com/alexcoll/mixbook

Team 3

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Problem Statement

No drink beats a well mixed cocktail at your favorite bar; however, what if you don't want to leave your house or pay $10 for drinks that you can make yourself for the fraction of the cost? You could mix your own drinks at home, but you're not a bartender: you don't know what drinks you can make with what you have in your kitchen; our mixology app aims to solve that problem: give it a list of ingredients and Mixbook will give you detailed recipes using only those ingredients. Currently there are a multitude of mixology apps that just solely list recipes. Our application serves to create a social media where users can share recipes and review drinks through a simple user interface.

Background information

For the longest time, drink recipes were in paper-bound books and usually only bartenders would have these books. With the advent of the internet, websites started cropping up, although shoddy, with some drink recipes here and there, though nowhere near complete or user friendly. As mobile applications came about, this technology shifted to become mobile app based, though none were anything more than static drink recipe books. Currently there is no existing mobile application that allows a user to find recipes based on the ingredients that they have as well as allow the sharing and reviewing of drink recipes in a user friendly manner. It is frustrating searching for hours to find drink recipes that are craftable with only the ingredients that you currently have, and this mobile application aims to change that.

Requirements

Functional

1. As a user, I would like to edit my own recipes.
2. As a user, I would like to choose from pre-populated recipes as well as user-added recipes.
3. **As a user, I would like to receive push notifications for a variety of events (if time allows).**
4. As a user, I would like to be able to view other user's profiles.
5. As a user, I would like to be able to have my own user profile.
6. As a user, I would like to receive profile badges/awards.

7. As a user, I would like to view badges/awards that I have received.
8. As a user, I would like to be able to recommend recipes to other users.
9. As a developer, I would like for users to be able to lock their accounts.
10. As a developer, I would like for users to be able to reset a password if forgotten.
11. As a user, I would like to have pagination of results.
12. As a developer, I would like to remove the bugs from recipe reviews.
13. As a user, I would like to be able to go back and edit my reviews.
14. As a user, I would like to have access to even more ingredients from which to choose.
15. **As a user, I would like to see images of cocktails (if time allows).**
16. **As a user, I would like to add and remove images of cocktails (if time allows).**
17. As a developer, I would like to overhaul the current error handling platform.
18. As a developer, I would like to overhaul the interchange format of data to a more standardized version of JSON.
19. As a developer, I would like to remove the use of deprecated functions as much as possible.
20. As a developer, I would like overhaul the request handling to improve and make request handling more standardized.
21. As a developer, I would like redesign the add recipe page to be more user-friendly.
22. As a user, I would like to say if reviews are helpful or not.
23. As a user, I would like to filter the reviews based on rating.
24. As a user, I would like to sort recipes based on ratings.
25. As a user, I would like to have a profile rating that reflected the ratings of the recipes I have created.
26. As a user, I would like to be able to find and sort users by their profile ratings.
27. As a user, I would like to see recipes that I have made.

Non-Functional

1. Should be able to use this application on an Android device
2. Should use some sort of near-real-time or real-time solution for updates, utilizing AWS services where possible
3. Should be scalable to be user demand, utilizing AWS services where possible
4. Should meet standard security practices, utilizing AWS services where possible
5. Should have an interface that is simple enough so that the average user would be able to use the application without struggling
6. Should be able to have negligible downtime while allowing for continuous development, utilizing AWS services where possible
7. Should be able to be high performing while maintaining proper security practices, utilizing AWS services where possible
8. Should have the ability to receive feedback in some from

9. Should design database schema independent of application so that it follows proper database schema design and can be ported for other uses
10. Should incorporate a three-tier architecture, utilizing AWS services where possible
11. Should provide fault-tolerant infrastructure to minimize downtime, utilizing AWS services where possible
12. Should implement AWS best practices for all applicable aspects of infrastructure that utilize AWS services
13. Should thoroughly document all code base in order to enhance maintainability
14. Should design backend in such a way to provide for easy testing at all phases of development
15. Should utilize AWS services as much as possible to avoid custom configuration of individual services that only serves to accomplish what another AWS service already provides