Software Engineering 2

COSC-4P02

PROJECT PROPOSAL

recipe

Winter 2021
Computer Science Department
Brock University

(working title and logo)

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Problem Statement
- With the onset of COVID-19, the convenience of eating out is no longer an easy and quick solution for daily meals. Stay-at-home orders mean people are spending the majority of time at their homes and need to do more meal preparation for themselves. We believe a website that allows users to share, tweak and rate homemade dishes will help bring us all together in these challenging times.
- It's quite common that for the same dish, there are different recipes available online. Involving users to rate the recipes helps users to choose the suitable one to follow with.
- Many recipes contain ingredients or cooking equipment which might not be available to a cook at the moment, so detailed filters allowing the exclusion (or inclusion) of recipes involving specific ingredients and cookware are needed.

Desired Functionality
- User can make a profile
- User can submit recipe with photo(s)
    - Recipe can include video tutorial (or link to Youtube video)
- Different filters: sort by:
    - Rating (On a scale of one to five stars)
    - Ingredients (Inclusion or Exclusion)
    - Serving size
    - Cookware (Crock Pot, Oven, BBQ, etc.)
    - Cooking time
    - Allergies/diets/religious sensitivities (Peanuts, Keto, Kosher, etc.)
    - Regions (Italian, Greek, etc.)
    - Chef
    - Healthiness (Calories, sugar, salt, etc.)
- Users can upload photos and comments of their attempts at preparing the recipe
- Users can share the recipe to social media
- Possibly: users can obtain a share of advertising revenue if their recipe is popular (like Youtube), to promote website usage.

Importance of the project (Why we chose this project)
- The importance of this project is to help encourage people to explore the benefits of home cooking using their available ingredients. In these trying times, we feel that creating an environment for others to connect and share something personal with the world.
- There does not currently exist a comprehensive recipe website that includes all of our features. The closest we could find is https://www.allrecipes.com/. However, this website fails to integrate all of the search options together in a useful, coherent UI.
- Many of the current recipe websites are hard to navigate and contain too much text/stories above the actual recipe. Example: SimplyRecipes.com, where the actual recipe starts half-way down the webpage:
  https://www.simplyrecipes.com/recipes/lasagna/

Overall Description
- A recipe website with the most comprehensive filters and search options of any recipe website
- An easy-to-use UI
- Social features such as sharing, commenting and rating recipes
- Potential monetization for users

Software Engineering Process
- We will use an Agile process, since there are many features to implement which are subject to change. New features might be added if it is found that competing websites offer them. Other features might be scrapped if they are deemed unimportant.

GitHub Page
- Our GitHub page is public
- https://github.com/pa13xb/COSC-4P02

Official Meetings
- Weekly Meetings - Thursdays after 6pm or Tuesdays 3:00-3:30pm dependent on professor's availability.

Development and Implementation Timeline
- Feb 7: Sprint release 1
- March 7: Sprint release 2
- April 26: Version 1.0 release