COSC 4P02 - Project Proposal

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Contribution Breakdown

All group members contributed equally in the creation of this document. All group members attended the meeting and helped to fill out this document.

Project Description

Problem

Coordinating purchases as a group can be annoying. For gift lists for Christmas, birthdays, or weddings, you want to avoid buying the same present as someone else, but having to align with every individual in the group can be a tedious task. Coordination is also required for other group events, like potlucks or large camping trips, where no item wants to be forgotten.

Objective

Develop a solution that will make group purchasing efforts easier. Whether it's for planning a group event, or for managing gift lists, the tedious inter-group communication is minimized and contributions are recorded and visible to other members.

The Proposed Solution

We plan to develop a web app where users can create a wishlist, and share it with other users. In a wishlist, a user can describe their likes, dislikes and list the specific products they would like to receive. The application will be kept general, so it can be used for gift lists, or for event coordination.

Main features

- **User Registration:** Users will create an account in the system. Creating an account requires an email for any app related notifications.
- **Wishlist Creation:** Users will be able to create a wishlist and start adding items to it. Each item in the wishlist can have a name, price, and link to an online storefront where it is available to purchase.
- **Sharing Wishlist with Other Users:** Users will be able to share their wishlist with other users via email or with a direct link.
- **Mark Items off Wishlist:** Once a user purchases an item from a wishlist, they will be able to mark it off as purchased, in which other users can see it has been purchased and marked off.
- **Wishlist Quantities:** Items on a wishlist can have a quantity associated with it, where a user may purchase a fraction of the quantity requested and mark it off accordingly. For example, a list of food items for a barbecue may include 60 hotdogs that are needed for the event, and someone only wishes to purchase 30.
- **“Blind” Wishlists:** One or more users may be blind to a wishlist, in which case they cannot see who has purchased what. For example, in the case of weddings, the bride and groom may be both part of a wishlist and want to be blind to it. This feature will also include Peek Warnings, where if a blind user turns the blind setting off to see who purchased what, all contributors will be notified. This feature is optional since with some wishlists (barbecue or potluck), no one needs to be blind to the list.
- **Data Tracking:** Tracking wishlists to gain insights on what items are commonly being asked for.

Software Engineering Breakdown

Software Engineering process

The project will follow the Agile software engineering principles to quickly adapt and implement features efficiently based on changing requirements and needs. The team consists of seven members who will collaborate closely with each other and stakeholders to ensure successful completion.

Tools and Technology

- **Version control: GitHub.** We will use GitHub to host our public project repository. GitHub page: https://github.com/Nicholas-Parise/4P02-course-project/
- **Project management: Jira.** Jira will be used for Sprint Backlogs, Product Backlog, and Bug Tracking. All users are added to the Jira to view, but the product owner will be the one to manage it. Jira page: https://nicholasparise.atlassian.net/jira/software/projects/COSC/summary
- **Planning: Google Drive**. The Group's project documents will be kept in a shared Google Drive folder: https://drive.google.com/drive/folders/1H5uFw_031SYkvf21KdLdkOzGt67i78vZ
- **Design**: **Figma and DrawIO.** Both of these tools will be used to make mockups and UML diagrams to better understand how to make our product the best.
- **Communications:** A Discord server has been created for group communications. All members are already a part of the server.
- **Front-end**: React or Angular. (TBD)
- **Back-end**: Node and Express.
- **Database**: PSQL or MongoDB. (TBD)

Work Reporting

Google Forms: We will use Google Forms to document progress when it occurs.

- Link to form: https://forms.gle/ZyACRZ5QVshgq78FA
- The form will have the following items:
    - Date, Title, Description of Work, Duration of Work, Team Members Involved

Meetings

- Weekly meetings are in the group study rooms in the library on Friday from 11:00am - 2:00pm (tentative, depending on how much time is needed).
- Weekly Stand-up meeting to discuss progress and roadblocks.
- Bi-weekly Sprint Planning and Sprint Review meetings to plan the next sprint backlog and discuss the previous sprint.
- Monthly stakeholder meeting with the T.A. will take place online during the Tuesday lecture period from 9:00am - 12:00pm.
- Meeting minutes will be recorded in Google Documents within the shared drive.