**Project Proposal**

Course: CS4513

Semester: Fall 2020

Advisor: Professor Strauss

**Project Name: Chore Management Application (Tentative name)**

Project Team Members: Helen Xu (hjx201), Kevin Grajeda (kag622), Alwyn Zhang (az1436)

**Project Motivation**

For most people, chores and housekeeping are unfortunate necessities. However, sharing a living space with others, whether they are family, friends, or roommates, comes with its own share of problems. Living with roommates that you are not yet acquainted with can be awkward even without telling them to clean up their side of the room. On the other hand, while it’s easy to talk to close friends and family, it’s even easier to shirk responsibilities when living with them. Even when colleges force roommates to fill out living agreements, it’s easy to forget how tasks were delegated as time passes and cleanliness is relegated to the back of everyone’s minds. Miscommunication and mismanagement of tasks can quickly devolve into disagreements that greatly reduce quality of life to the point where people may refuse to communicate with each other at all, which of course doesn’t help the condition of the room.

With our project, we aim to mitigate any lapses in communication and simplify the task of assigning responsibilities by providing roommates/families/etc. with a way to keep track of everyone’s tasks. And once these responsibilities are assigned, we want to help users remember to actually do the tasks when the time comes to do them, and additionally provide a way to make users aware when someone in their group is doing an inadequate job.

**Proposed Project**

The proposed project will initially be a web application with cross-platform support. The application aims to streamline the process of assigning and managing chores and tasks for roommates and household members.

The application will have the following functional requirements:

1. **User Account Creation**

The proposed project will allow users to create accounts and add other users to their contacts lists. Information pertaining to the user such as name, tasks/chores, roles, and email address will be associated with their account.

1. **Group Creation and moderation for families/roommates**

Users may create and be a part of as many groups as they want. The user who created the group will be the initial group administrator. They will be able to adjust group settings and user permissions, appoint other users as administrators, and relinquish their administrator status. Group members can be given specific roles based on the tasks/chores the members have. The adjustable group settings will include group name, group theme, and group roles. User permissions will include abilities to add or remove users, create tasks/chores, and adjust the group settings.

1. **Task/Chore Creation**

Either the administrator of the group can create tasks for the other users or other users can create tasks for themselves. The administrator will have control over the name, date, duration, priority, category, and whom the task is assigned to. The tasks will be able to be easily modified or deleted if needed. They can also be set to be recurring at specific dates and times. The application will also provide users with customizable reminders to ensure that the tasks are completed.

1. **Task Feedback**

Users can notify others in their group that they have completed their task/chore, notify others if they are unable to complete the task/chore, or request changes relating to the task/chore. When users within a group find that a task has been falsely marked as complete or performed inadequately, they may send a notice to the user responsible for the task or to the administrator for review.

1. **Task History**

Users can view past tasks within a group that have been assigned and completed, plus any notices that have been sent for falsely/inadequately completed tasks. Previously assigned tasks can be duplicated and re-assigned.

1. **Homepage**

The homepage provides a way for users to quickly view all their tasks and access the functions of the app.

**Project Deliverables**

As specified in the course outline, the project deliverables are:

* Project proposal - Due 9/22
* Software Business Specification (SRS –Business Definition) - Due 10/8
* Software Requirement and Analysis Specification (SRS -Requirements) - Due 10/20
* Software Project Management Plan (SPMP) - Due 10/2
* Software Analysis Specification –Final (SRS -Analysis) - Due 12/1
* Project Presentation - Due the last two weeks of the semester