Problem Statement and Goals
Housemates

Team #9, Housemates
Justin Dang - dangj15
Harris Hamid - hamidh1
Fady Morcos - morocof2
Rizwan Ahsan - ahsanm7
Sheikh Afsar - afsars

Table 1: Revision History

Date	Developer(s)	Change
9/25/23	All	Revision 0
4/4/24	Justin Dang	Revision 1

1 Problem Statement

1.1 Problem

With the ongoing affordable housing shortage in Canada many people have been forced to find roommates in order to have a place to live in. This is especially common at universities like McMaster where its extremely common to have housemates while in student housing. While having roommates may help ease financial pressures it can lead to lots of stress. Communication issues can be a huge problem. An application that helps with these common stresses in the roommate life would make it more convenient for the housemates to live together and overall simplify their lives.

1.2 Inputs and Outputs

1.2.1 Inputs

The main input for Housemates will be a user entering an information for a chore, bill, or event.

Category	Description	Format
Chore Assignments	Details of assigned household tasks and responsibilities.	Task names, frequency, assignees.
Bill Information	Details of shared expenses, such as rent, internet, utilities, groceries, etc.	Bill amounts, due dates, responsible users.
Event Information	Details of an event	name, time

1.2.2 Outputs

The main output for Housemates will be webpages that display information for user about their current chores, bills and scheduled events.

Category	Description	Format
Report	Information on chores, bills, or events for a user	HTML Web page

1.3 Stakeholders

- People with housemates: People with housemates are the primary stakeholders of this application. They can use the application to better simplify life with housemates. As such they will have the greatest influence out of the stakeholders on the requirements of the application during the development process.

- Landlords / Property Manager / Housing Association: Landlords would be a secondary stakeholder for the application. Landlords might be interested in using an application like this for their tenants so that they will better be able to communicate with them with respects to household tasks that are required. As such, they might play a minor role on determining the requirements of the application during the design process.

- Families: Families can also benefit from the app to have a centralized place for all household matters. They can distribute chores evenly and keep track of bills. It promotes talking openly and encourages users to be more responsible about household duties and bills.

1.4 Environment

The expected environment for this application will be in web-browsers in the form of a web-app. Users would then have the convenience to access the solution/product on any device they want that suits their needs.

2 Goals

Goals	Importance
The application will simplify household task management through a task management system.	This allows streamlining the allocation of chores which in return will reduce conflicts and misunderstandings between housemates.
The application will streamline expense sharing through a cost management system.	This makes it possible for roommates to monitor their expenditure and prevent overspending. Additionally, it encourages each person to make a fair financial contribution.
The application will have a scheduling system that will allow for users to schedule quiet hours	This allows users to focus on their work, sleep, or studies without any interruption.
The application will have a calendar to see scheduled events	This allows users to coordinate their schedules and help them in managing their time in a better way.
The application should integrate the task management, expense sharing, and scheduling system together in an intuitive way	Integrating these systems together would allow users to better make use of these systems. For example, setting a task to remind a roommate of an expense they should remember to pay.
The application will have a straightforward and user-friendly interface that is simple to use for all users, regardless of technical ability.	This allows first time users to be interested in our product and a good experience with the overall product.

3 Stretch Goals

Goals	Importance
The finished product will have Google account integration	The application having google account integration will allow for users to be able to see events scheduled on the app in their Google calendar.