

## **Team Colorado - Team 2**

### CSCI 3308 Project Proposal

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### **Application Name:**

Roomble (For Now)

### **Application Description**

Roomble is an application that targets college students seeking housing. Roomble takes on an interface similar to other socialization apps (Bumble, Tinder, Etc.) that makes finding a roommate simple and efficient. You can filter possible roommates by sleep habits, hobbies, interests, and many other categories. That way, instead of having to fill out a bunch of surveys and go through a pretty exhausting roommate selection process, finding a roommate has never been easier.

One thing that college has taught us is anything can happen in an instant. Whether it's having to find a new place to live for the next semester or needing to fill a spot in your house, having fast and easy access to an interface made for finding the right roommate is key. Roomble targets this audience, and makes finding that "perfect match" easier than ever. Roomble will utilize a combination of Hinge and Clovers algorithms utilizing categorization and similarity points to match users that are the most like them. This minimizes the probability of incompatibility and gives users the best first step they could take in finding a good roommate. Roomble will also take advantage of location preferences and have a filter for what type of living space is best.

### **Vision Statement**

Roomble makes the process of finding a roommate more and rewarding by connecting people who may not have otherwise met in real life. We aim to connect people to develop close friendships with each other.

### **Version Control**

Repository: [https://github.com/CSCI-3308-CU-Boulder/3308SP21\\_section023\\_2.git](https://github.com/CSCI-3308-CU-Boulder/3308SP21_section023_2.git)

## **Development Method**

Team Colorado will be applying Scrum to the agile method. Since we have a complex project, we will need clear steps for each part of the process, and we will need a clear vision of the end product that we want to deliver to market. The Scrum framework will allow us to do this by creating a product backlog, as well as different sprints.

Project Board:

<https://csci-3308-spring21-023-2.atlassian.net/jira/software/projects/TC02/boards/1>

## **Communication Plan**

We are using a multitude of communication methods for this project. In addition to our weekly zoom meetings that we will hold, we also have a Discord server for sharing content and having quick communication. We also have an SMS group chat in order to have a way to communicate with each other when people are away from their computer. We also have a shared Google Drive folder in order to share documents with each other and have them in an organized place that everyone can see.

## **Meeting Plan:**

Tuesdays 2 - 4pm via Zoom.

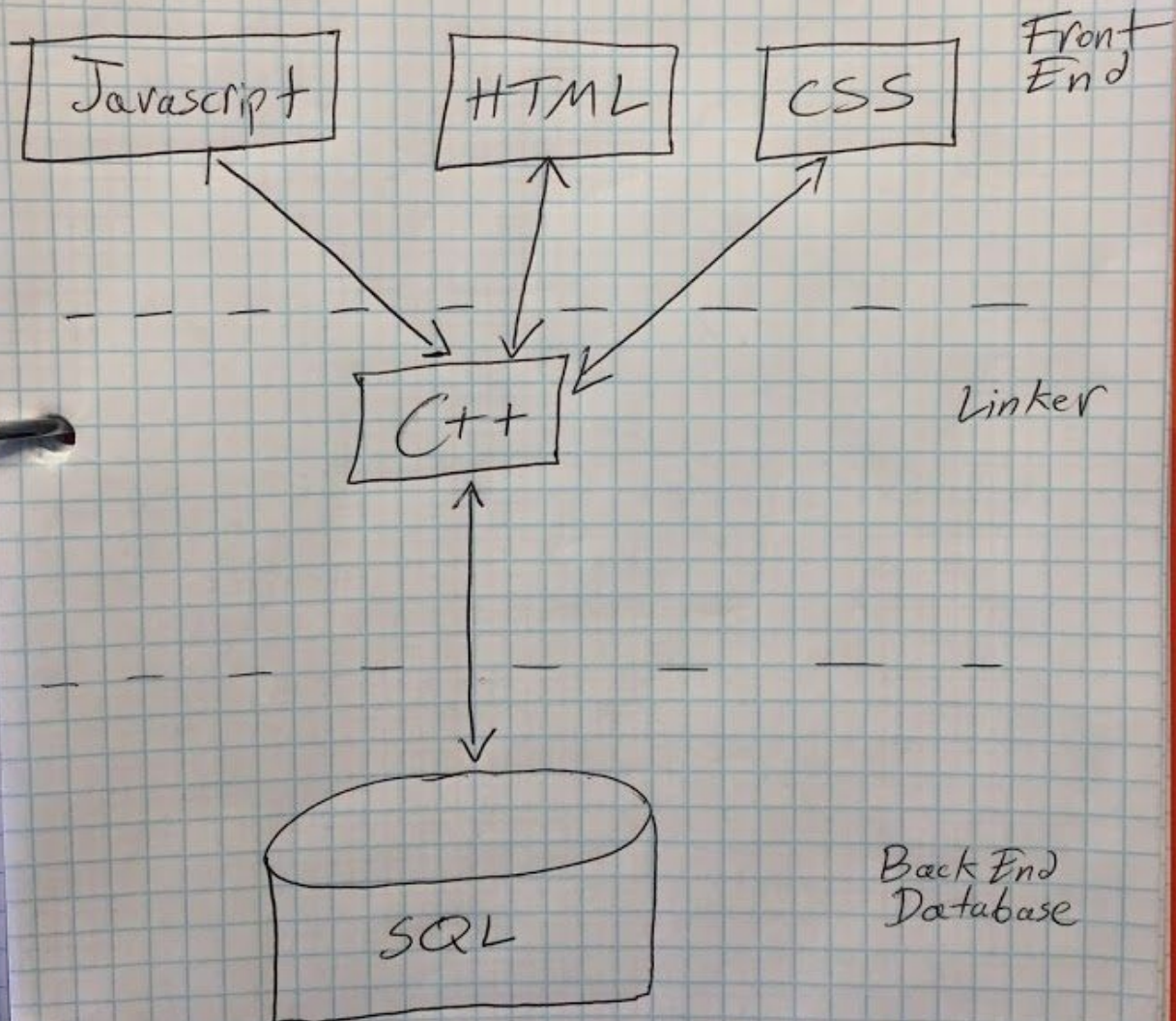
Weekly meetings with our TA are Fridays at 12:15 - 12:30pm.

## **Proposed Architecture Plan**

For the backend, we will be using an SQL database to hold user's information and data regarding roommate preferences. In order to develop this database, we will use MySQL. Our connection between the database and the frontend will be C++ with text editors. For our frontend, we will have a combination of HTML, CSS, and Javascript. The Javascript will be for animations while we will use CSS framework for styling and HTML for markups.

Preliminary Architecture Diagram

www.roomble.com



## Use Case Diagram

