# CEN 4090L: Software Engineering Lab

**Florida State University**

**- Group Project Proposal Template Group 13 –**

1. **Project title**

*RoommateRoundup / DoorHinge (WIP, a better title may develop before we finish)*

1. **Brief overview of what you are proposing**

*Tinder, but for roommates. Answer a questionnaire about your roommate preferences, then get a Tinder-style interface that allows you to swipe left and right on certain roommates. After both sides match with each other, the app starts a chat to allow both sides to discuss specific information.*

1. **Motivation**

*This is an app that could be used in our lives as college students, changing apartments and roommates semi-frequently.*

1. **Features to be implemented and types of users**

* *All users will have same access level (could change, but we don't currently see the need for any sort of an admin role)*
* *There is a questionnaire that you fill out based on your living preferences*
* *You then fill out your profile and match with people you would live well with*
* *There will be an option to select age range*
* *Roommate matching will be an equal match both must select each other to match*
* *Match delay to prevent fear of first swipe*
* *Responsive web app that works on both desktop and mobile*

1. **Risk / Challenges**

*Testing might be difficult.*

*The learning curve could be more difficult than we initially anticipated, since we are making a front to back JS application and none of us ever have worked with JS.*

1. **Existing related projects**

*roomsync*

*roommatch.com*

*Problems we are solving from the other apps:*

*1. Some apps don't require you to fill out every part of your profile; We will make sure that, in order to post a profile, every field must be filled out so we can make the best matches possible.*

*2. Our app is going to be apartment agnostic, roommates can match before either one has picked a certain apartment, increasing our potential user base.*

*3. We will implement a match delay so that nobody is afraid of being the person who liked the other person's profile first, a common pain point in the other applications.*

1. **Intended platform / programming language**

*WebApp: React for the front end and Node.JS for the back end, either PostgreSQL or MySQL for the database.*

1. **Third-party libraries / APIs to be used**

*React, Node, mySQL / PostgreSQL, Tailwind, Github Pages (could host somewhere else, but Pages gives us a lightweight solution)*

# Team members, expertise, project responsibilities, and team organization

*Brandon Cook - btc22b*

*Worked primarily with C++, some MIPS assembly language, little experience in HTML and CSS and very little experience in VisualBasic.*

*Brandon Specht - bms22h*

*-Worked primarily with C++, very little experience in HTML and CSS*

*Jillian Bice - jcb22b*

*C++, some HTML MIPS*

*Matthew Bucataru - mcb22e*

*C++, Python, SQL, PL / SQL, C#, Ruby*

*Mostly experienced with database/SQL related programming*

*Elizabeth Sauer - es20fk*

*C++, Java, Python, C#, little bit of HTML some webapp creating experience*

*Team Organization:*

*As of now we have no team manager. We will be meeting in person at least one a week, preferably twice a week. We will communicate via text between meetings.*

*Tentative Team Roles, subject to change*

* *Brandon Specht - backend*
* *Brandon Cook - frontend / database / backend*
* *Elizabeth Sauer - backend / database*
* *Matthew Bucataru - frontend / database*
* *Jillian Bice - backend*