

FINDMYROOMIE_2.0

Your Roommate Search Made Easy

Group 31

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About FindMyRoomie

- **Main Objective** - Provides an effective way for NC State students to search for roommates
- **Widely Applicable** - The app can be used to find roommates for both on and off campus housing. Search for roommates beyond Raleigh; look for others in Cary, Durham, and more nearby cities too.
- **Highly Customizable Search** - Find the perfect roommate(s) by filtering on a wide variety of search criteria, including: sleep schedule, study habits, and much more.
- **Public Message Board** - Converse with other users on the Message Board. Put out a request for roommates, discuss good places to live, fun things to do in the area, etc. all within the FindMyRoomie application. Users can even filter posts based on the posting user, letting them easily find posts from their friends or roommates.
- **The App can Recommend Roommates Automatically** - For those who don't know where to start their search, FindMyRoomie v2.0 can automatically find quality candidates at the press of a single button. After they've filled out their own profile, the application will search for other users who are the most compatible.

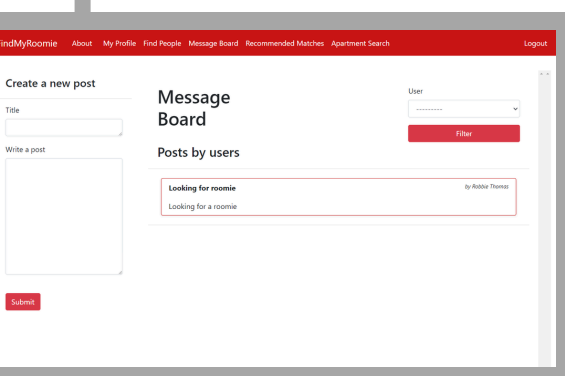
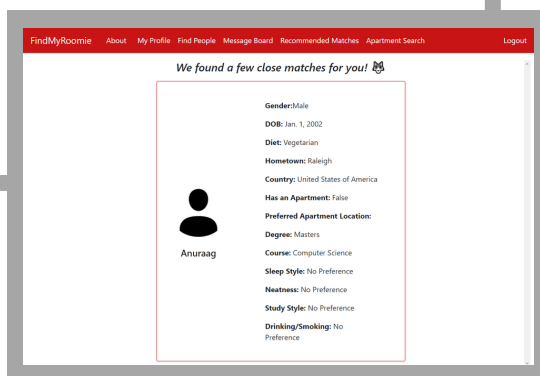
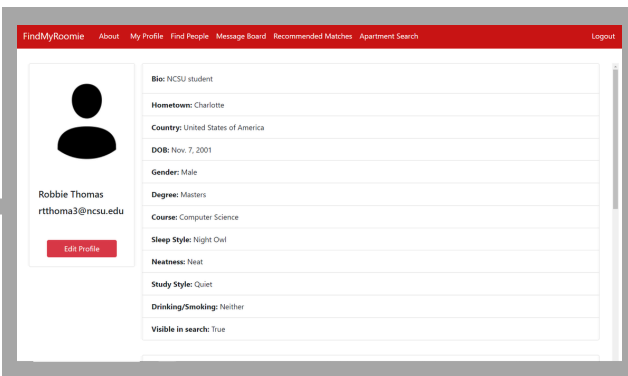
Technology Stack

- Primary Coding Language - **Python**.
- Utilizes **Django** to streamline the creation of a backend server and its connections to the frontend web pages. Django takes care of the complicated and tedious parts of web sites, allowing developers to focus more on creating the best web applications.
- Frontend Web Pages use **Bootstrap** to ensure a visually pleasing and responsive design.



Testing

- Current Coverage - **83%** of the current functionality
- Features 16 automated tests, each of which tests the application's current functionality in depth. Future developers can use these tests to quickly check for any regressions in the system.
- Includes a live server test to check server and database interactions



See the App in Action!



Scan the QR Code above or click [here](#) to watch a video demo of the project

Check out the Project Yourself!



Scan the QR Code above or click [here](#) to access the repository

Installation Tip:

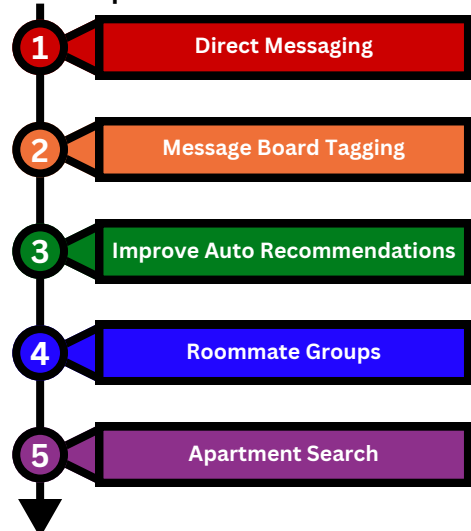
If you have trouble installing the project, try installing PostgreSQL first!

Help Enhance the Project:

- Future Scope -

- **Direct Messaging** - Build upon the public Message Board by implementing a private chat feature. Users should be able to send messages to each other privately without needing to use external methods. An option to chat should be presented when viewing another user's profile information after a search. This will make communication between users easier.
- **Message Board Tagging** - Enhance the Message Board experience by creating tags for posts. Users should be able to assign tags to a post, and then filter the Message Board feed for posts with certain tags, allowing users to more readily find relevant posts.
- **Improve Auto Recommendations** - Make the automatic recommendations better for users by allowing them to specify or rank which traits are most important on their profile. Update the recommendation algorithm to give greater weights to roommate preferences or qualities matching the higher ranked items.
- **Roommate Groups** - Design a way for users to create groups of varying sizes with each other within the application. A group owner should be able to manage who is in the group. A group member should be able to see the information about all of their roommates in a single location.
- **Apartment Search** - Provide the "Apartment Search" page with real-time data of properties available to rent in the desired area.

- Implementation Timeline -



- Why Choose this Project? -

- **Help Solve a Problem** - Finding roommates is a stressful experience that many struggle with when moving to a new place. Put your problem solving skills to work and find new ways for FindMyRoomie to ease this problem.
- **Technology Experience** - Gain experience working with one of the most widely used Python frameworks, Django, and one of the most popular frontend frameworks, Bootstrap.
- **Algorithms** - This project provides an opportunity to create and work with searching algorithms to find the most compatible matches for users.
- **Data Modeling** - Improve your skills in developing data models to solve real world problems effectively. Models will need to be created or edited to implement each iteration.
- **Variety of Work** - Get the opportunity to work on a wide variety of additions to this system, and see how they all work together. Gain experience and show off your skills by implementing vastly different kinds of systems (direct messaging systems, simplified social media feeds, search algorithms, etc.)