

## RoomHub Project

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### User Stories

- 1) As a student, I want to be able to make an account on RoomHub so I can start looking for apartments/roommates. **(MVP) (5pts)**
  - a) User can submit a new email/password for registration
  - b) User is able edit their account information
  - c) Username must be an email associated with a school (.edu domain)
  - d) Password must be at least 8 characters
- 2) As a student, I want to be able to list my current housing unit so potential roommates can find me or I can sublet my housing unit to another student user. **(MVP) (8pts)**
  - a) User can submit a listing which will be displayed on the site
  - b) User can upload a listing with the following attributes:
    - i) Create a submission form:
      - (1) Unit pictures
      - (2) Unit description
      - (3) Bedrooms/Bathroom count
      - (4) Amenities
      - (5) Roommate Preferences
      - (6) Pets
  - c) Student user can update and remove listings
- 3) As a student, I want to search and filter by roommate attributes so I can find the most suitable roommate for me. **(MVP) (12pts)**
  - a) User can filter options for all possible attributes
    - i) Gender
    - ii) School
    - iii) Distance
    - iv) Age
    - v) Pets
    - vi) Allergies
    - vii) # of roommates
    - viii) Cleanliness
    - ix) noise/party/guest policy
    - x) School major/area of study
    - xi) Sleep schedule (early-bird/night-owl)
    - xii) Budget

- 4) As a student, I want to toggle whether or not I am actively searching for a roommate, so that other students can only match with me when desired. **(MLP) (2pts)**
  - a) When inactive, other student users cannot find me or message me when searching for prospective roommates.
  - b) Students can become active again after a break from using the platform.
- 5) As a student, I want to be able to search for keywords and filter by listing attributes so that I can quickly narrow down my search. **(MLP) (5pts)**
  - a) Filter listings by the following attributes:
    - i) Price
    - ii) Location
    - iii) Amenities List
    - iv) Description
    - v) Etc. (filter by same attributes as landlord listings)
- 6) As a student, I want to communicate with potential roommates so we can get to know each other. **(MLP) (4pts)**
  - a) User should be able to read historical messages
  - b) User can send a message which will appear in the recipient's inbox
  - c) User should be able to delete conversation histories
  - d) Users can setup group conversations to discuss multi-room listings
- 7) As a landlord, I want to create listings so that interested students can find a place to live **(MLP) (30pts)**
  - a) Landlord can fill in the essential listing attributes (e.g. price, location/address, move-in date, lease term or flexibility, on-campus/off-campus)
  - b) Landlord has the option to include supplemental attributes
    - i) Neighborhood Information
      - (1) Safety, crime, entertainment options, local amenities, demographics, culture, relative
    - ii) Student-friendly attributes
      - (1) flexible lease terms, short/medium-term leases, pre-furnished options, student discounts, parent guarantors, easy applications, study rooms/lounges, no move-in/broker fees, subletting options, lease break options
  - c) Landlord can update/remove listings as needed to keep information current
- 8) As a student, I want to be able to privately or publicly save the listing I like, so I can view it later and, if I choose, publicly broadcast it to other student users so I can find a roommate(s) who are interested in the same saved listing. **(MLP) (9pts)**
  - a) Student users can save a listing from the gridview list or the map by clicking on a save (heart or star) icon
  - b) Student users can view a gridview list of the listings that they saved.
  - c) Student users can remove a saved listing.

- d) User can toggle whether or not to make a saved listing public to other student users; by default saved listings are private
  - e) When viewing a listing, a student user can see other student users who publicly saved the same listing and click on their profile to message them.
  - f) Public saved listings are linked to a student user profile so when another student user is looking at the profile, the other student can see what the primary student liked
  - g) For multi-room listings, student users can group together can choose to message each other in a group conversations
    - i) This group is publicly visible to other student users who are interested in the same listing and who are looking for roommates
    - ii) The number of remaining rooms (e.g.  $\frac{2}{3}$  roommates matched, 1 room remaining) in a listing with a group formed is publicly broadcasted to all other student users
    - iii) If listing is full (e.g. 3/3 student users matched) other student users are aware of this but can still save it, form other groups, and contact the listing poster (landlord or student renter)
- 9) As a student, I want to see a map with multiple listings pinned on the map so it is easier to search by location and find the best listing for me. **(MLP) (5pts)**
- a) All listings are linked to coordinates on a map (ie. Google Maps) and appear as an icon on the map
  - b) When hovering the mouse over a listing icon, a preview box with brief information about the listing appears (price, availability date, interested student renters, sqft., etc.)
  - c) Clicking on the icon or the “see more” option on the preview box links the user to the listing webpage
  - d) User can select preset neighborhoods, so listing only within the selected neighborhoods are on visible on the map
  - e) User set a radius from a particular address so listing only within that radius are visible on the map