Stakeholders

- MIT students living in dorms who want a roommate are the primary users of our app. These would be mostly incoming freshmen because they don't have a group of friends yet and have to live in a dorm.
- MIT Housing/dorm governments may be indirectly interested because roommates concern the housing process.

Resources

- We may use MIT certificates to authenticate users; we depend on how hard this is and what information this gives us (we need name and email)
- We may use Google to authenticate users; we depend on how hard this is

Tasks

List of tasks, expected effort, allocation to team members

- Teamwork plan, 2 hr, all
- Design doc, 4 hr, all
- Wireframes, 4 hr, all
- Uses (auth, display), 6 hr, Olga + Alec
- Preference (define set, UI), 6 hr, Rujia + Peinan
- Matching (process, algorithm, UI), 10 hr, Alec + Peinan
- Saving user matches (process, UI), 5 hr, Olga + Alec
- Dorms (model, UI), 5 hr, Alec + Peinan
- Intra-app communication (process, UI), 10 hr, Olga + Rujia

Calendar of intermediate and final milestones for tasks

- 11/11 Design - Design: all parts except data design, and challenges relating to implementation
- 11/13 MVP: User login
- 11/15 MVP: User can set preferences
- 11/16 MVP: User can see matches
- 11/18 MVP implementation deadline
- 11/20 Implement concept of matched/unmatched user
- 11/22 Save user matches ("favorites")
- 11/23 Enrich preferences and matching algorithm
- 11/25 Revised design - updated design document, with changes identified, data design and code design, challenges added
- 11/27 Implement dorms
- 11/28 Finish final matching algorithm
- 11/30 Handle all security issues
- 12/2 Code for grading - programming: all parts
- 12/4 Intra-app communication
- 12/6 Figure out contact info privacy solution
- 12/7 Final delivery of task - final version of code, deployed app

Teamwork: reflection

- 12/8 project fair - demo of deployed app

Risks

- complexity of ranking algorithm
    - for MVP it will be nonexistent
    - we will build up from there
- number/type of preferences
    - for MVP they will be preset boolean preferences
    - later we will allow users to select preferences they care about
    - later we will create a sliding scale of preference answers (instead of boolean)
- dorms have limiting factors (meal plan, gender)
    - for MVP we don't take into account dorms
    - later we will include user dorm preference and their limiting factors
- user honesty
    - limit to MIT for now

Minimum Viable Product

- Some of sort of user authentication system (MIT Certs, Google, or self-created)
- On user creation, we give a survey of all preferences as a predetermined list
- All preferences are true or false
- Given your preferences, lists all users in order of how many preferences those users match
- You can see other users' contact information
- Will be able to find matches and contact them
- Concepts included: user, preference, compatibility
- Potential issues/concepts postponed: dorms, non-boolean preferences, matched vs unmatched user, saved matches (favorite users), privacy (contact info), better ranking algorithm, intra-app communication