February 25, 2018

HIGH LEVEL REQUIREMENT

1. OVERVIEW

Our web application is built to simplify and organize rooming. Roommates create user accounts to join their online home dashboard. The dashboard contains a shared calendar that displays any events shared by the roommates. Users should be able to toggle between three options to specify their room status. This application is targeted towards college students, specifically those in larger apartments or houses.

2. USER REGISTRATION

Users must be able to create their accounts on our website. Websites should require users to enter school emails to manage housing groups better. Upon registration, the user can choose to either join an existing housing account or create a new housing account. The users who created a housing account or joined an existing housing account can send invitations to add more roommates.

3. SCHEDULING

There are two main types of calendars: class and social calendars. Overall, they allow users to do the following: 1) Allow users to import their calendar data to their home dashboard. 2) create, read, delete and update (CRUD) events directly on the calendar.

A. Class Calendar

- Users should be able to either import their class schedules from external sources or enter them manually. The class calendar should support CRUD of class schedules

B. Social Calendar

- Social Calendar includes any other events that are not included in the class schedule. Likewise, social calendar should support CRUD of events. Social calendar contains two subcategories: group calendar and personal calendar.
  - *Personal Calendar: only the owner of the calendar has the authority to make any changes. Other roommates have a limited read-only access*
  - *Group Calendar: all the roommates have the full authority to make any changes. Users should be able to utilize Personal Calendar to find out everyone's availability and schedule group events on Group Calendar*

C. Calendar Guest Access

- Users can grant guest access to others by sending out invitations. Guest users should have read-only access to calendars and won't be able to view any event details. Anyone who's attempting to access the calendar by "hard typing" the URL should be redirected to sign-in page

4. LIVE UPDATES

In the case that multiple users are adding events to the calendar at the same time, the calendar times and schedules must be the same on all accounts. Users' calendars should be updated in live time.

5. LOCATION TOGLE

Users should be able to toggle between these three options to specify their room status

A. In the Room

- When the user is in his or her room and available to socialize with others

B. In the Room - Do Not Disturb

- When the user is in his or her room but isn't available to others

C. Out of the Room

- When the user is not in the room