March 2, 2018

SHARED HOUSING MANAGEMENT

1. TEAM INFO

The team meets at Fertitta Hall (JFF) on Friday 3:30PM – 5:30PM

A. Members

- Jacob Schaider | jschaide@usc.edu
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2. TECHNICAL SPECIFICATION

Having many people living together can cause many problems. Our website aims to solve some of the communication issues presented with living together. The primary target group for our website is students living in an apartment together, but other non-students living with a group can use it as well.

No changes have been made to the feature requirements from the high-level specifications.

Global Requirements

Hardware Requirements:

This website must be able to run on any modern laptop / computer and a

professional web hosting service to guarantee the website will not run into scalability and connection issues.

Database

Estimated time: 8 Hours

Description: The database will store all users and their information

- Username (string): Used to log into the website
- Password (string or hash): Password used to log into the website

- Name (string): User's full name

- Address (string): User's home address

- CellNum (string): User's cell phone number

- EmergencyNum (string): Phone number of user's emergency contact

- Email (string): User's email address

- VenmoHandle (string): Account name of user's Venmo name

Server

Estimated Time: 8 Hours

Server will use MySQL to access and database

a) Getting Information
   The server needs to be able to handle all users' CRUD requests including authenticating the user credentials for login. The server also needs to be able to retrieve data from 3rd party sources such as Google Calendar.

b) Posting Information
   Once the data is processed, server should be able to respond to client with properly formatted data, so the web interface can properly parse the data and display in accordance to the web interface structure.

Web interface

Estimated Time: 8 Hours

Description: All logged-in users will see the same page layout tailored to the apartment group they are in. A menu will contain all pages, and users should be able to click on individual links in the menu to navigate to other pages.

1. User Authentication
   a. Sign up page
      If the user doesn't have an account, he/she can choose to sign up as a new user or access the website as a guest user. If the user chooses to sign up as a new user, he/she will then be prompted to fill in personal information. After the user completes the sign up, he/she can choose either to create a new apartment group or add to the existed apartment group.
   b. Login page
      If the user already has an account, he/she can log into the account directly through the login page. After the user logs in, he/she will be directed to the page to view the apartment group's information.

2. Viewing Apartment Group's Information
    a. Calendar / Dashboard
       Group events and personal events will be marked different colors on the calendar
       i. If logged in, the user has the ability to see the apartment's schedule and events. The user will also be able to add extra events to the pre-existing calendar.
           a. Users should be able to add their personal events directly.
           b. Users will need to send out an invitation if they want to add a group event. The users who accept the invitation will get an auto update in their calendars.
       ii. If not logged in, the user who tries to access the apartment's calendar should be redirected to the sign up or log in page.
    b. Location Toggle - room status
       i. Each user will have a public menu they can toggle to display their status as "In the room," "In the room - do not disturb," or "Out of the room."
       ii. When a user selects an option, other members of the same apartment group should be able to see the status on their respective profile page.

3. Personal Profile
    a. This page shows the personal information of the currently-logged in user. The user should be able to modify his or her personal information as needed.
    b. Personal profiles should also include the accounts of the roommates of the current user. Users should also have access to the public personal information of their roommates.