

Full House

Conor Reisman

Janette Siu

Shahaf Nuriel

Vision

Just before classes started at UW this quarter, tens of thousands of students moved into dorms, apartments, or houses, introducing themselves to new roommates or reuniting with their old ones, trying to establish a routine to make coexisting easier. Around the world, at all times of year, there are millions of households with residents who struggle to communicate their needs with one another. Full House plans to fix this by facilitating and organizing these needs and presenting them to the user's fellow residents. Full House can also mediate conflicts among roommates, such as whose job it is to take out the trash for any given week. Furthermore, as a household grows, it becomes increasingly difficult to communicate effectively between the residents, but Full House allows each user to specify how they prefer to be contacted and to easily send out a message to everyone else. Full House is a fully-featured household manager that can be tailored to each user's and household's needs.

Minimum Viable Product:

Users visiting this website will be able to create a household, log into their household, and view the most recent announcements as well as upcoming chores. The announcements section will be used for general communication about possible events, purchases, or rules. Full House will also enable roommates to be removed or added as the housemates change, so that a new house does not need to be created every time. Full House will also have a password-recovery feature.

Full House will easily manage whose turn it is to take care of a household chore. It will provide an interface for specifying recurring tasks and who is responsible for each; for shared tasks like taking out the garbage, Full House will rotate among the responsible parties so that each roommate is assigned the task in sequence. It will maintain a history of who performed the given tasks earlier so that if conflicts arise, the users can easily look back and see who last cleared out the dishwasher. Furthermore, Full House will have on-site notifications about overdue tasks so that those who need additional reminders will still be able to stay on top of their chores.

Future Additions:

We believe it will be possible to get more than the minimum done in a group of seven this quarter.

We are hoping to also provide:

- Email or text notifications (catered to the users' choice of what kind of notification they want to receive) for
 - Upcoming tasks

- Overdue tasks
- New announcements
- More services
 - Keep a television reservation schedule
 - Keep a “library” list of books and/or movies in the entire house
 - Grocery list where roommates can upload personal and household groceries so that when one user goes to the store, s/he can get the groceries for everyone/the house
 - Bill tracking (within Task List)
 - Type in the bill amount, description, who paid and who is a participant in the bill
 - Calculate how much each person owes
 - Add the payment as a task in the list for each person
- More customizable
 - Let user decide which sections to see (for example, if they only want to see the household chores and not the “libraries”)
 - Create each type of management in a widget and allow each user to move the widgets around
- Other features
 - Allow manual swaps/changes of household tasks among the residents
 - Allow other roommates to approve the new chore to which they are assigned
 - Allow a user to be a member of multiple houses and select a default house to display upon logging in

Technology

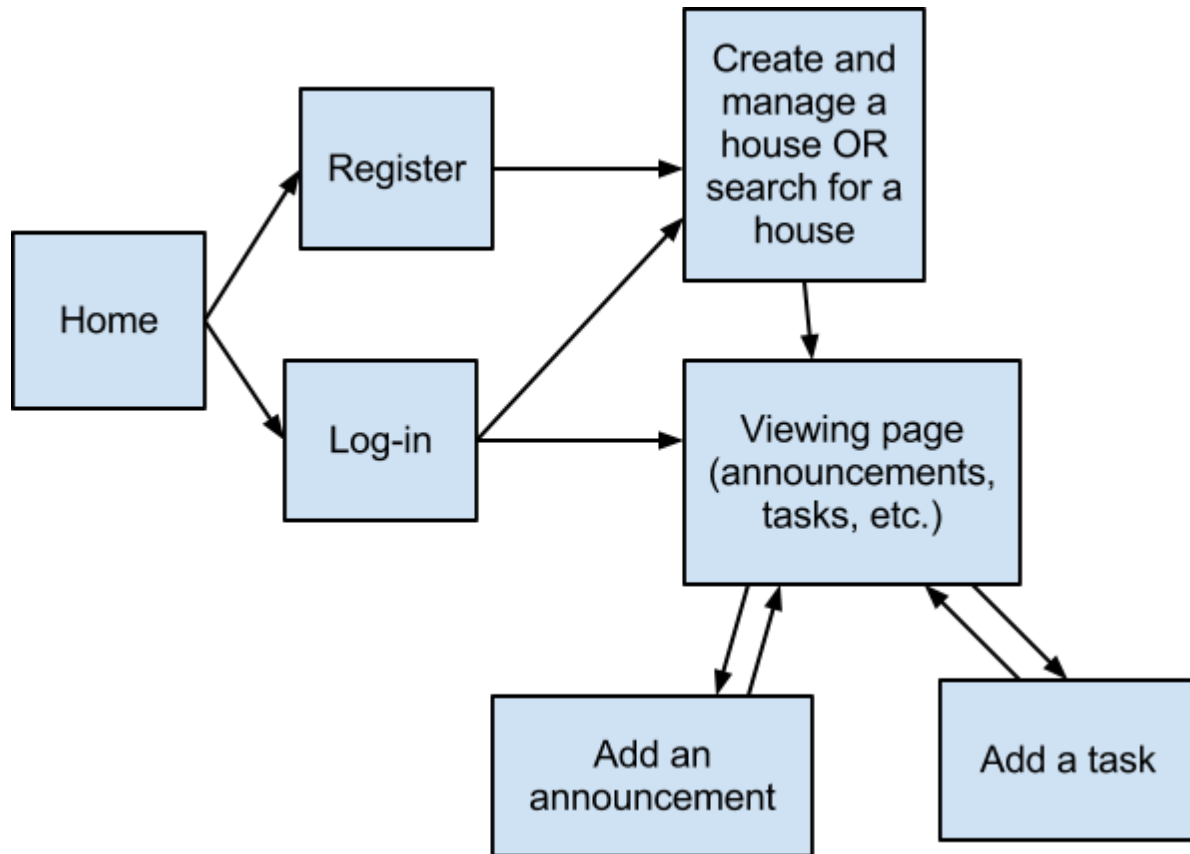
We propose that we use a PHP server that serves HTML, CSS, and JavaScript to the users. Our backend database will be some variation of a SQL database (probably MySQL). These are all commonly known languages (and taught in CSE 190M/CSE 154), so there’s a good chance many fellow students will have experience with this set of tools.

Risk Factors

If the site is not user-friendly to all the roommates, some of the residents may not use it, which could cause an imbalance in a perception of responsibility and defeat the purpose of the announcements. Furthermore, features like the grocery list may not be as useful if they are not available on mobile.

Not all of the team members may be well-versed in our chosen technology stack; these choices can be flexible to accommodate the expertise of team members. General inexperience in dealing with large projects or web applications could also be a hurdle for the project team.

Basic Application Flow



To make the diagram easier to read, it does not include the password-recovery flow. Also, a log-out page is available from all of the pages that require you to be logged in (adding/viewing announcements/tasks, creating and searching for a house).