

Team Name: Clean Slate
Application Name: Doma
Semester: Fall 2017
[Github](#)

Team Overview

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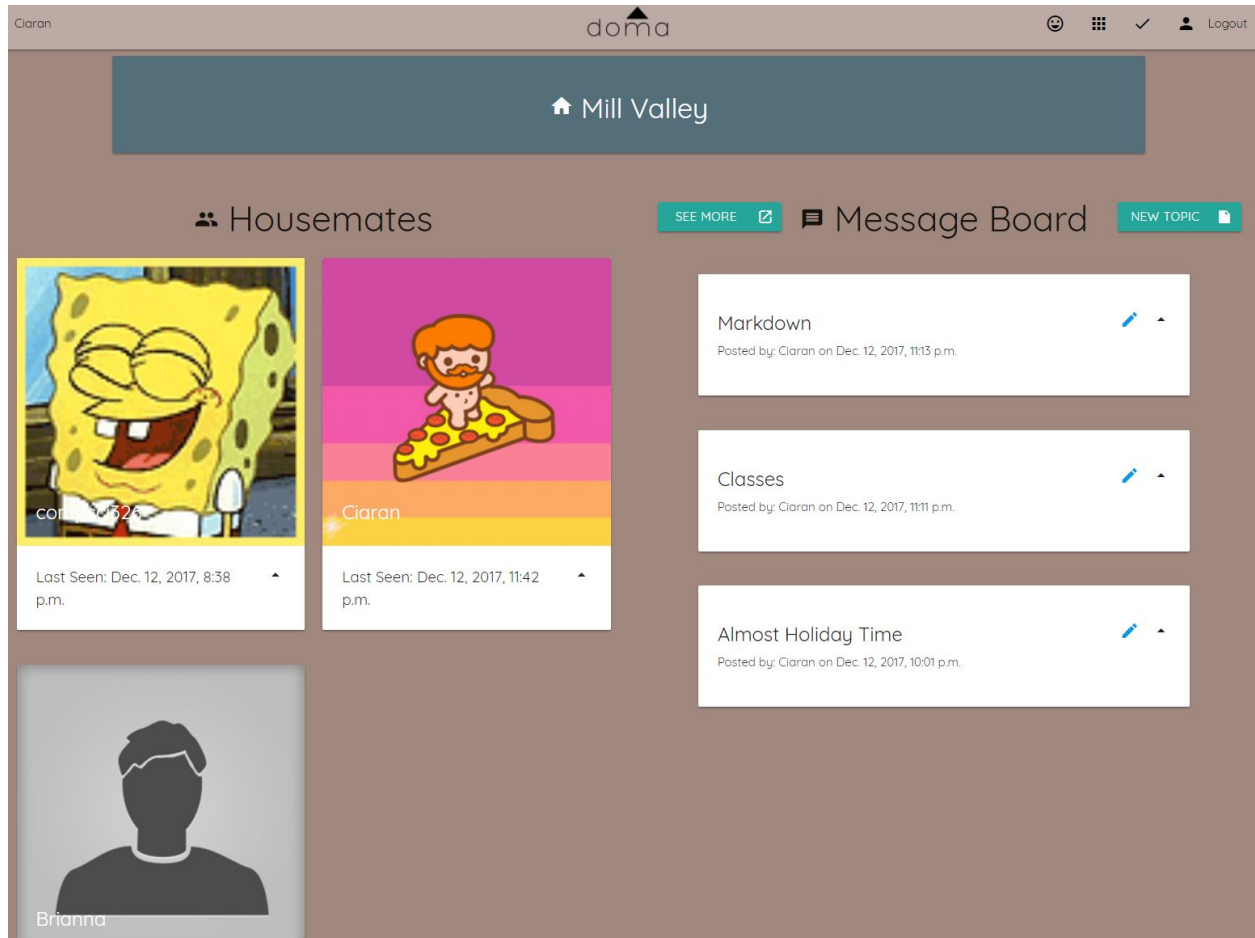
Overview

Doma is a platform for roommate communication and resources. It's primary purpose is for tracking chores and other reminders between users who share a home, both in the model of the website and in real life. A user has their profile and quick access to a calendar as well as the list of shared chores all just one click away. Homes also share message boards for easy communication between housemates.

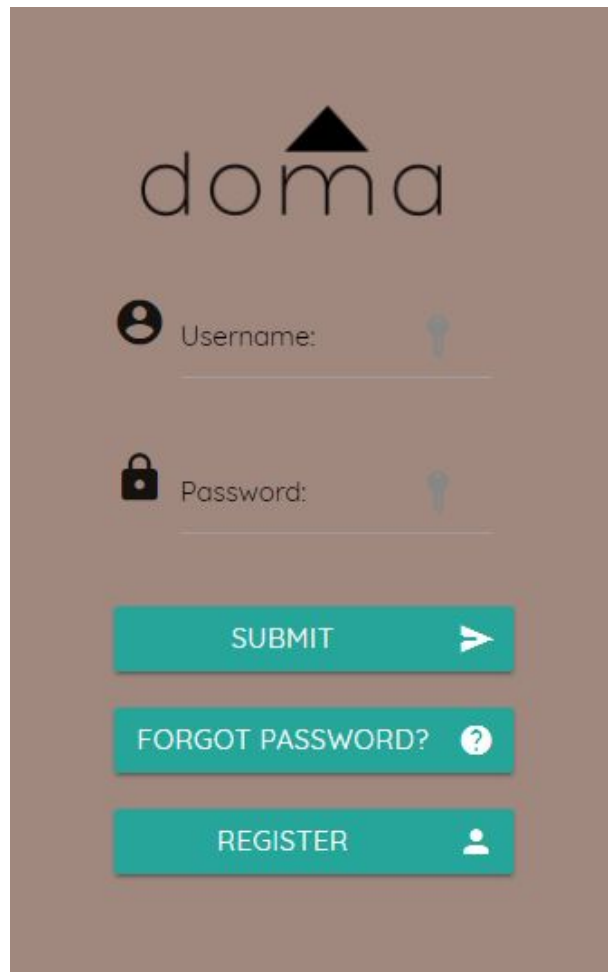
User Interface

The components of Doma's user interface include the following pages:

- Home Page: This shows the user each of the members of their home and their respective statuses and has links to each of the other necessary pages at the top for easy access. It also includes a messageboard for easy communication between housemates.

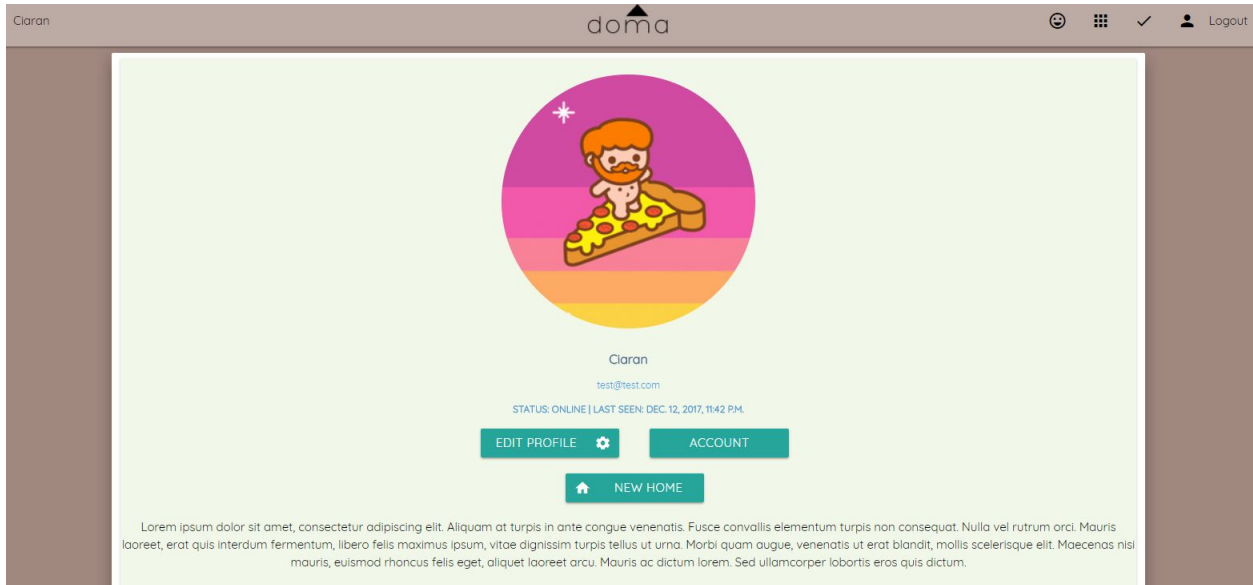


- Login Page: This page contains functionality for logging in a user, registering a new user and recovering a user's password.

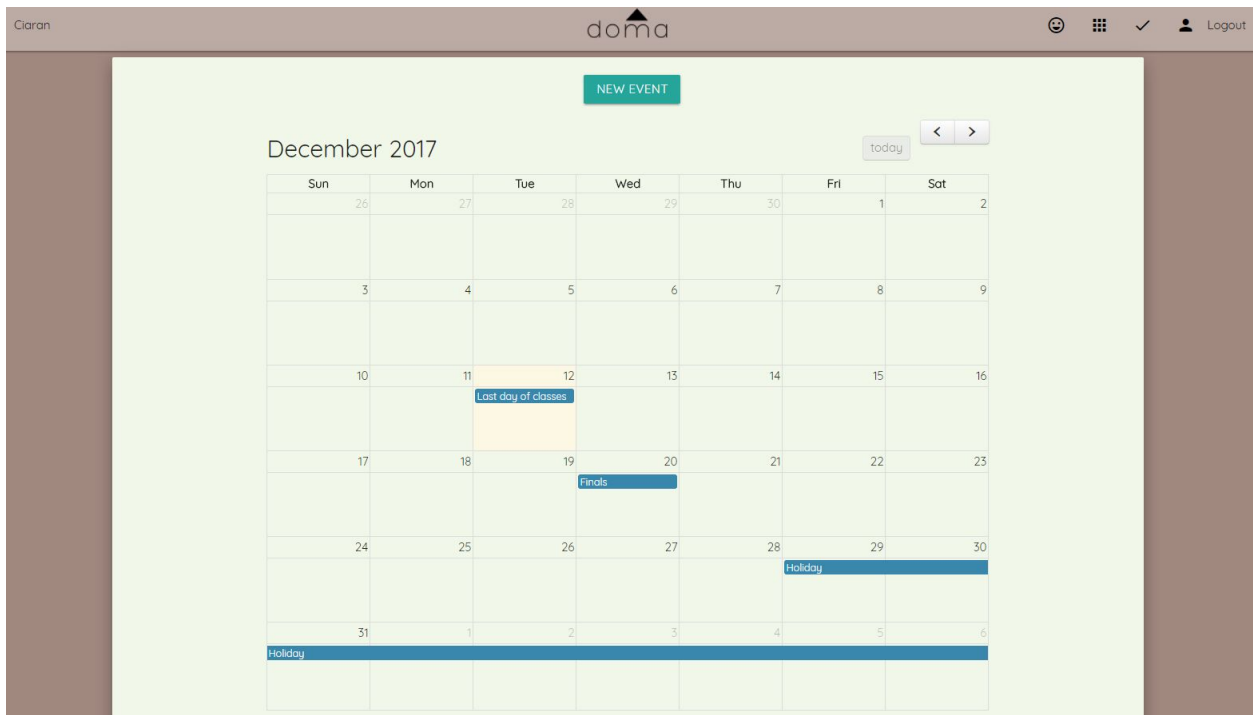


The image shows a login and registration form for a website called 'doma'. The form is set against a solid brown background. At the top, the 'doma' logo is displayed in a dark grey, lowercase sans-serif font, with a black triangle positioned above the letter 'o'. Below the logo, there are two input fields. The first field is for the 'Username', indicated by a person icon to its left and a key icon to its right. The second field is for the 'Password', indicated by a padlock icon to its left and a key icon to its right. Both fields have thin horizontal lines below them for text entry. At the bottom of the form, there are three teal-colored buttons with white text and icons. The first button is labeled 'SUBMIT' and features a right-pointing chevron icon. The second button is labeled 'FORGOT PASSWORD?' and features a question mark icon. The third button is labeled 'REGISTER' and features a person icon.

- Profile: The profile page is where all of a user's personal info is displayed including their name, biography, image and other useful preferences. This page also contains the previously mentioned links to other pages as the navigation bar is shared across the entire website. You can also create a new home from this page.

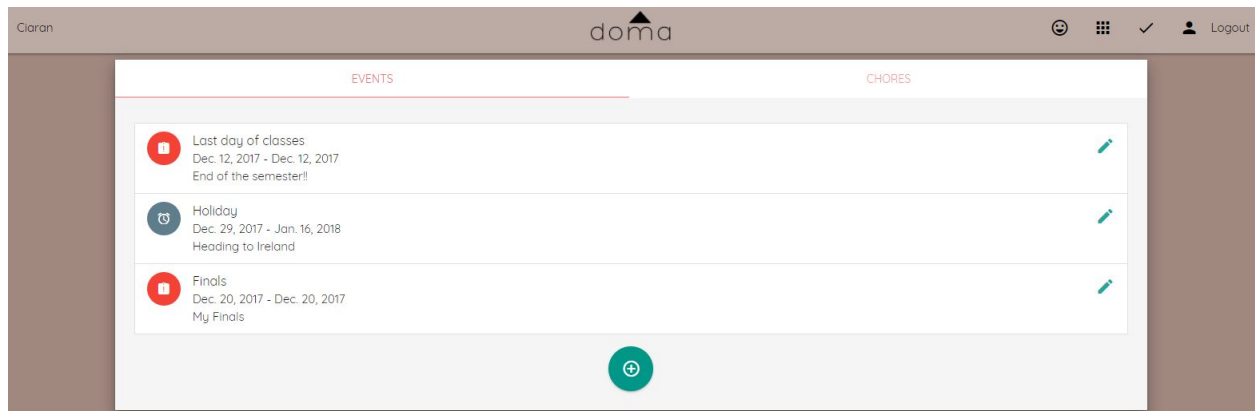


- **Calendar:** This page contains information about what the other users in a home are up to. Primarily it is for organizing parties or other events which require the use of the house or the participation of the housemates.

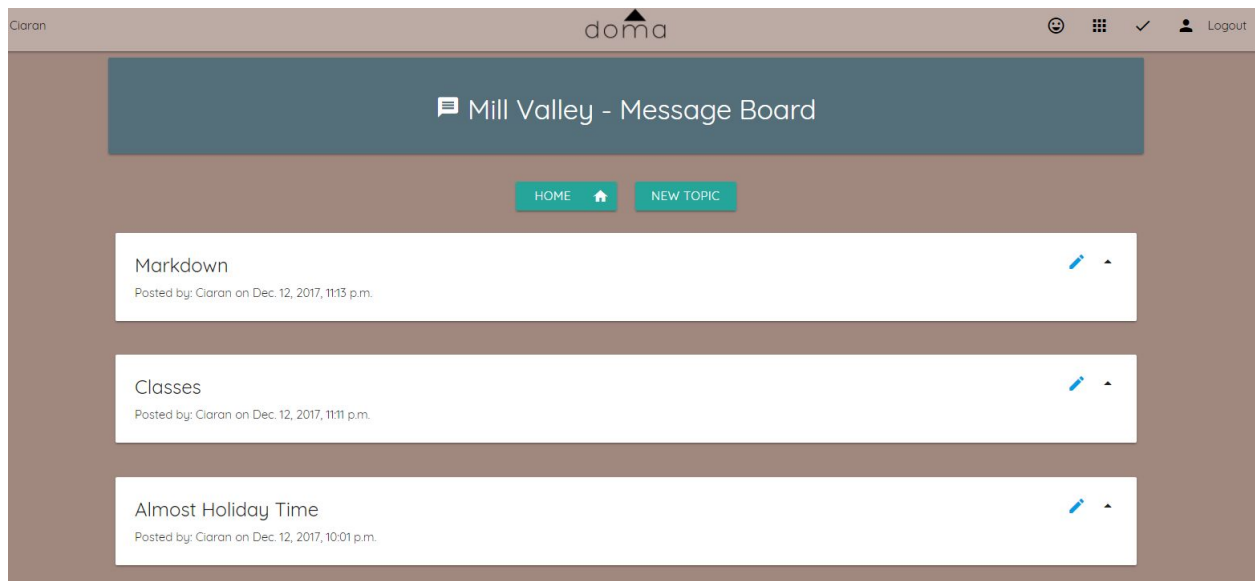


- **Reminders:** The purpose of the reminders page is to contain the chores and other notes that housemates have set in a quickly readable format. Each chore has a name, date when it is supposed to be done and a short description. Each of these can be edited from this

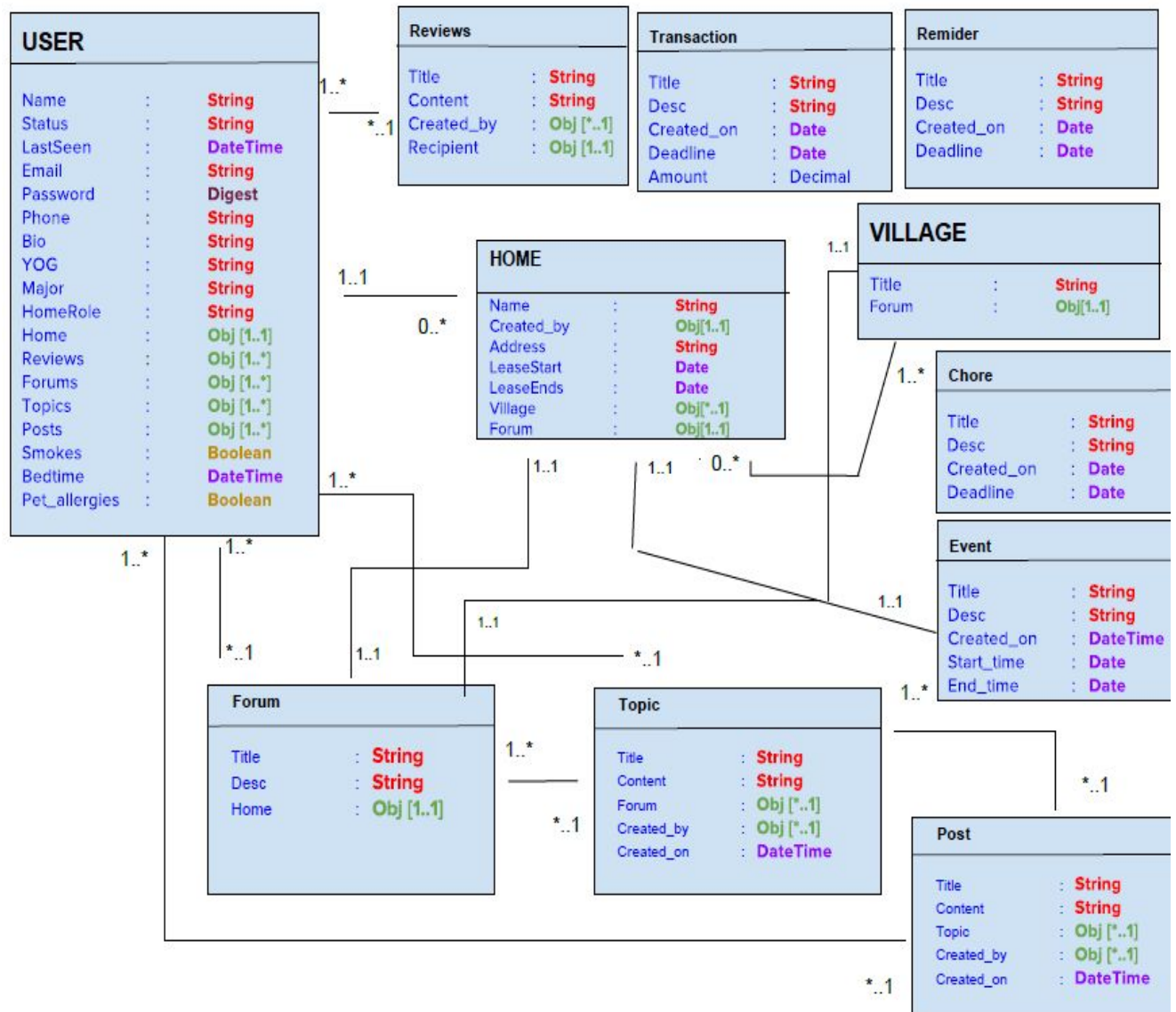
page. They also have conditions that change the icon next to them depending on how near they are to their due date.



- **Message Board:** This page contains functionality for viewing all topics pertaining to the appropriate message board (forum). In the future it was intended to paginate this page using materialize, so as not to overwhelm the user.



Data Model



URL Routes / Mappings

Note: All routes below /admin require login to access.

<code>url(r'^\$', home, name='doma/login/')</code>	This mapping points to the login page of Doma. If you are not logged in, then this will be the page displayed when opening the application.
<code>url(r'^admin/', admin.site.urls)</code>	This mapping points to the admin page of Doma, which is not meant to be accessed by users. The default login is the compsci326 user.
<code>url(r'^doma/\$', home, name='home')</code>	This mapping points to the homepage of Doma.
<code>url(r'^doma/profile/\$', profile, name='profile')</code>	This mapping points to the current user's profile.
<code>url(r'^doma/reminders/\$', reminders, name='reminder')</code>	This mapping points to the reminders page.
<code>url(r'^doma/calendar/\$', calendar, name='calendar')</code>	This mapping points to the housewide calendar.
<code>url(r'^doma/message-board/\$', forum, name='message-board')</code>	This mapping points to the message board.
<code>url(r'^doma/profile/(?P<pk>[-\w]+)/edit/\$', edit_user_profile, name='edit-user-profile')</code>	This mapping points to the page which allows a user to edit their profile form.
<code>url(r'^doma/chore/(?P<pk>[-\w]+)/edit/\$', edit_chore, name = 'edit-chore-deadline')</code>	This mapping points to the page which allows a user to edit an existing chore.
<code>url(r'^doma/chore/create/\$', create_chore, name = 'create-chore')</code>	This mapping points to the page which allows to create a chore.
<code>url(r'^doma/chore/(?P<pk>[-\w]+)/delete/\$', delete_chore, name = 'delete-chore')</code>	This mapping handles the deletion of chores.
<code>url(r'^doma/user/create/\$', create_user, name='create-user')</code>	This mapping points to the page which allows a user to create a specific user.
<code>url(r'^doma/user/(?P<pk>[-\w]+)/edit/\$', edit_user, name='edit-user')</code>	This mapping handles the editing of a user.
<code>url(r'^doma/home/create/\$', create_home, name='create-home')</code>	This mapping points to the page which allows a user to create a specific home.
<code>url(r'^doma/home/(?P<pk>[-\w]+)/edit/\$', edit_home, name='edit-home')</code>	This mapping handles the editing of a home.
<code>url(r'^doma/topic/create/\$', create_topic, name='create-topic')</code>	This mapping points to the page which allows a user to create a specific topic.
<code>url(r'^doma/topic/(?P<pk>[-\w]+)/edit/\$', edit_topic, name='edit-topic')</code>	This mapping handles the editing of a topic.
<code>url(r'^doma/event/create/\$', create_event, name='create-event')</code>	This mapping points to the page which allows a user to create a specific event.
<code>url(r'^doma/event/(?P<pk>[-\w]+)/edit/\$', edit_event, name='edit-event')</code>	This mapping handles the editing of an event.

Authentication Authorization

The users of our application are all housemates. After logging in through the simple login page, displayed upon first entering the site, the user will be taken to their personalized home page which contains the information of all their housemates. This information can vary based on which users are in your home. Since a home is meant to be a social environment, most users have access to create or edit the chores, events and topic posts.

Team Choice

For the final submission, we overhauled the app. We added many features. The homepage was made specific to the home the user belongs too, we were able to incorporate a password reset via email, we integrated functionality for messageboards that make use of markdown and Also, we attempted to send reminders using Twilio, but encountered problems with setting up the phone number parameters. On the backend we made some minor changes that allowed chores to be linked properly to the home with which they were associated as well as fixing some small errors.

Conclusion

There's no better way to learn web programming than getting stuck into a project like this. We learned a lot through this project. We were ambitious with our initial design but due to time limitations and unequal workloads between group members we had to cut back quite a bit. Despite this, we adapted well and we had a great time working together as a group. Team collaboration was definitely our weakest point but we did improve somewhat throughout the semester in this regard. We all definitely came away from this project having learned quite a bit and we all enjoyed the class as a whole.