

Final Project Demo



Team: The Clippers

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The Problem and Our Solution

Having a roommate can present many challenges when it comes to dividing up chores and responsibilities. On top of other stresses that can come with life such as schools, bills, etc., the last thing you or your roommates should worry about is if someone has taken out the trash or done the dishes.

To avoid any type of stress when it comes to chores, our group has come up with the “Household Schedule Manager”. With our web application, roommates can keep track of who does what around the house.

Why Our Solution is Efficient

We live in a very “pro-device” era at the moment. Almost everyone has a smartphone, tablet, computer, etc. Our app is free and accessible to anyone who has a device that has internet access. With just one click or tap, you can use our app to get rid of any problems that you have with your roommates when it comes to household chores.

Brochure

Household Schedule Manager



Problem Statement: Living with other people can create issues when it comes to splitting up the chores. Some roommates tend to forget or ignore them altogether. This can cause tension in the household, and make your living situation more difficult than it has to be. Instead of trying to manage everything using a whiteboard or through group text, the Household Schedule Manager provides a streamlined experience and removes the ambiguity. Using our web application will ensure that each person does their share of work in a timely manner.

Product Objective: To simplify the task assignments for everyone living under the same household.

Product Features:

1. Create accounts/login/logout
2. Rate chores done by other users
3. Add or remove chores
4. Ability to trade chores
5. Can randomize chores
6. Chore notification

What's the point of cleaning up the kitchen? It all decomposes anyways.

It was my turn for trash? I thought we had butlers for that.



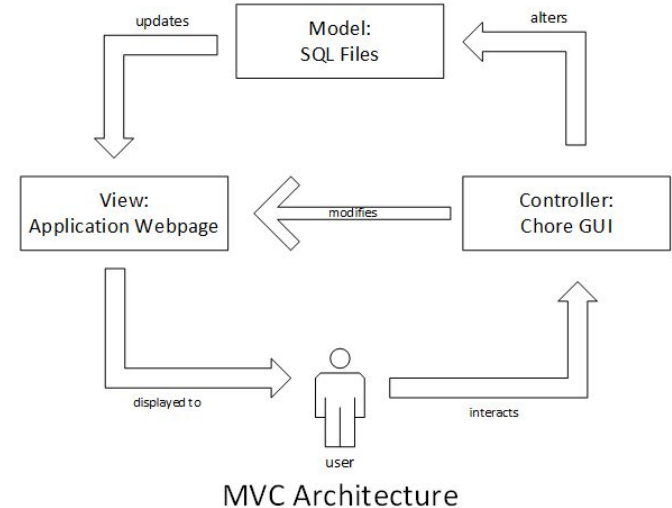
Ruby on Rails

Ruby on rails is a framework to help developers build web applications.

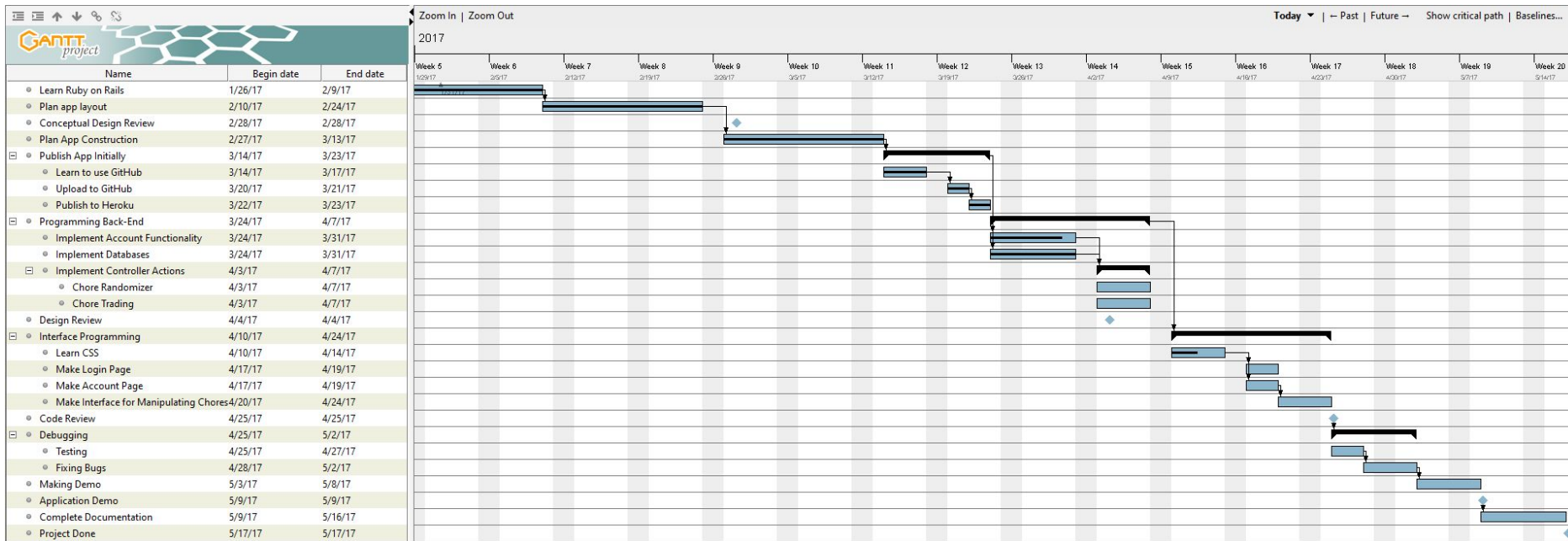
Libraries are open source.

Useful for rapid application development and focus on testing.

Each project follow the same architecture/structure making it easy for developers.



Gantt Chart



Gems

- Ruby on rails libraries are open source.
- You can use online ruby software packages or gems and apply them to your own Rails web application code.
- For our project, we used the devise gem for secure hashing of pass, creation of the user, deletion of the user, edit of the user, and more.



Communication and Organization

- Github
 - Used for version control and code sharing
 - Used to push/pull code to master version
- Google Drive
 - Used as repository for project documentation
 - Worked on HW assignments, constructed presentations, etc.
- Slack
 - Used for team communication
 - Discussed ideas for app, new features, homework assignments, etc.
- Heroku
 - Used to host app and test with every push to the master branch
- Agile Development
 - Our requirements were not static, needed to deal with change

Original Functional Requirements

- Users shall be allowed to create accounts/login/logout
- Users shall be able to rate chores done by other users
- Users shall be able to add or remove chores to the household
- Users shall be able to trade chores with other consenting users in the same household
- The application shall be able to randomize chores between users in a household

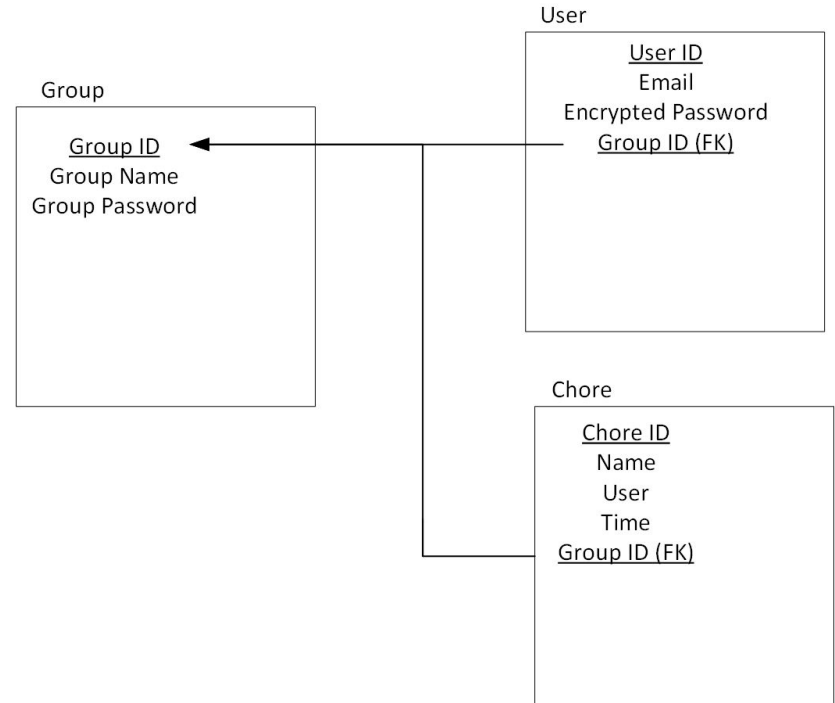
Achieving the MVP

- MVP - minimum viable product.
- Originally planned for lots of functionality, but didn't achieve all of our intentions
 - Chore Trading
 - Chore Randomizing
 - Chore Rating System
- Produced a working app that performs the core functionality

Data Model

- Setting up the data model was made easy with the relational schema to layout the tables relationships and mapping.
- FK=Foreign Key

Relational Schema



Use Cases

- Sign up
 - Goal: User creates account
- Log in/Log out
 - Goal: User can successfully log in or out of account to view, add, or delete chores
- Add Chore
 - Goal: User can successfully add a chore to the chore list
- Remove Chore
 - Goal: User can successfully delete a chore from the chore list

Original Test Cases

- Test Case 1: Create User/Household Member
- Test Case 2: Login
- Test Case 3: Logout
- Test Case 4: Change Password
- Test Case 5: Forgot Password
- Test Case 6: Assign Chore to a User
- Test Case 7: Trade Chores
- Test Case 8: Review Chores
- Test Case 9: Mark Chore as “Finished”
- Test Case 10: Delete Account

Challenges Faced

- Setting up Heroku
- Setting up Ruby on Rails
- Scheduling our time so that we can discuss ideas for and work on the application
- Issues with “pushing” and “pulling” code to master copy on Github
- Setting up some features for the app

What We Learned

- How to use Ruby on Rails
- How to setup Heroku so that you can deploy your app
- Programming in Ruby
- Using GitHub to collaborate
- Good/Bad Software Engineering Principles
- How to properly document in a programming project

Website Demonstration

<https://cmpe131-clippers.herokuapp.com/>

LOGINSIGN UPFAQ

Household Schedule Manager

by Arslan Idrees, Harmander Sihra, Jared Cook, and Vincent Van



Do you have roommates?

Living with other people can cause issues when it comes to splitting up work done around the house. Some roommates tend to forget to split up household chores or ignore them altogether. This can cause tension in the household, and make your living situation more difficult than it has to be. Instead of trying to manage everything using a whiteboard or through group text, the Household Schedule Manager provides a streamlined experience and removes ambiguity. Using our web application will insure that each member of the household does their share of work in a timely manner

Features such as:

- Multiple member sign in with random assignment of chores
- Chore deadlines to make sure tasks are completed
- Easy to use interface which will let you add chores and members on the fly
- Rating each chore that your roommate has done