

CS 307
Software Engineering

Team 17

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Roomedy

Sprint Two Planning Document
October 19th - November 13th



Sprint Overview

Overview

Below, we have listed user stories that we intend to complete this sprint. For sprint two, we are going to move our production environment onto Heroku's dedicated servers, which will allow us to host our website for outside use. It will also give us access to some services that we did not have in sprint one, such as email. We will also get the few tasks from last sprint that are partially incomplete finished. We are going to flesh out some more features with our already created inventory and note systems, and then start work on the calendar/schedule and financial systems. This should get us into a good spot for sprint three to finish and polish our application.

Scrum Master: Derek Schrag

Scrum Meeting Time: 12:30, MWF.

Risks and Challenges

Current Sprint Details

User Story: As a developer, I would like to deploy our production environment onto Heroku's dedicated servers.

Task Description	Estimated Time	Owner
Sign up for Heroku plan	1	Duffy
Attach production environment (Git, etc) to Heroku server.	2	Duffy
Attach Heroku SendGrid addon for our email usage.	2	Simon

Acceptance Criteria:

This user story is primarily for us as developers. When it is successfully implemented, we will be able to access a production version of our site from anywhere, and be able to make use of Heroku specific services in our app (like email functionalities).

User Story: As a user, I would like to keep track of my financial information.

As a user group, we would like to keep track of debts owed to each other and outside services.

Task Description	Estimated Time	Owner
Create Transaction object between two users, or a user and a controller that keeps track of when the transaction took place,	8	Derek

for how much, and in which way, and whether or not they're recurring.		
Calculate users' net balance based off their transactions for the month.	5	Akshit
Allow transactions to be divided among members of the house, and keep track of each user who has paid.	8	Akshit
If a transaction is created with a date set in the future, users will be provided a notification/reminder that a bill is coming up.	5	Akshit
Research financial service APIs and how they will interact with our implementation of finances.	3	Simon
Allow users to receive financial notifications	6	Hari

Acceptance Criteria:

Given a user who is signed in and a part of a house, when a user chooses to add a new transaction, then this transaction will be added to his dashboard, and linked to his user ID in our database.

Given a user who has transactions, when a user chooses to look at his financial statistics, then they will be able to see certain statistics such as their net balance, net expenses, and net income for this month and previous.

Given a user who is creating a transaction, when they choose to add another user to that transaction, then they will be able to choose whether this transaction is one paying the other, or both paying for a third party object together.

User Story: As a user, I would like to have additional account information kept for me.

As the house admin, I would like to have control over the information in my house.

Task Description	Estimated Time	Owner
Allow user to upload profile picture.	5	Hari
Display profile picture in places where the user's name appears.	5	Hari
Create House Administration page, keep it exclusive to user(s) who are listed as	6	Akshit

Admin for current house.		
Allow users to add more informations about them such as mobile number, address	3	Hari
From HA page, allow Admin to change House name, and allow Admin to remove users from their house.	6	Mike

Acceptance Criteria:

Given a user who has created an account, when they choose to edit their account information, then their old information will be overwritten by the newly supplied data.

Given a user who has a profile picture, when the user creates an object (Note, Transaction, Event, etc.), then if appropriate, their profile picture will be shown.

Given a user who has administrative rights to their house, when the user chooses to edit the House information, then they will be able to change the House name, and remove users from their house.

User Story: As a user, I want to be given information about my current inventory.

Task Description	Estimated Time	Owner
Modify the model to allow for the frequency of items added to be tracked	5	Duffy
Create an algorithm to suggest when items should be purchased based on frequency of their addition and the user's current stock	10	Duffy
For two users in a house with similar frequency, integrate notifications to allow them to purchase together in the future.	5	Duffy
Hook into a retail API to suggest cheaper alternatives to commonly purchased items	8	Mike

Acceptance Criteria:

Given a user who has used the inventory system consistently, when they go to the inventory system they will receive information about restocking on commonly purchased items.

Given a user who has purchased items at a higher price than available at the retail API we're hooking into, when he accesses the inventory page inform him of the cheaper alternative.

Given two users with one or more of the same commonly purchased item, when one goes to their inventory page they'll be alerted of similar shopping trends of their roommate.

To test this, I will quickly add and remove inventory items over multiple sessions for two different users. I will do so in a way that I would expect to receive a notification telling me that I need to restock on a commonly added item. I will also purposely make an item very expensive to make sure that cheaper alternatives are properly being suggested. I will also create a second user and add and remove the same items at the same frequency to make sure that the system is correctly discovering similar shopping trends amongst roommates.

User Story: As a user, I want a common event calendar.

Task Description	Estimated Time	Owner
Allow users to add events to their Roomedy calendars.	8	Derek
Allow users to invite other users in their house to events in their Roomedy calendars.	3	Mike
Allow users to sync events to their personal calendar.	5	Mike
Allow users to receive alerts about events.	3	Simon

Acceptance Criteria:

Given a user who is signed in and a member of a house, when they choose to edit their schedule, then a new event will be created on their calendar.

Given a user who has a calendar, when they choose to export their calendar, then they will receive a download for a common-format calendar that can be synced to other calendars.

Given a user who has an event on their calendar, when they choose to invite another user to their event, then if the user accepts, the event will be added to their calendar, and their RSVP will be displayed.

User Story: As a user, I want to receive notifications of important events

Task Description	Estimated Time	Owner
Allow users to receive notifications through email	5	Simon
Allow users to receive notifications through text message	5	Simon
Display notifications for users on the	4	Akshit

website.		
Allow users to control how notifications are displayed	4	Simon
Allow users be able to opt out of certain types of notifications	3	Derek

Acceptance Criteria:

Given a user who is signed up to receive notifications, when an event reaches the requested amount of time before its start time, then the user will be given notifications via text, email, and/or on the website, depending on that user's preference settings.

Given a user who is signed in and a member of a house, when the user changes his notification preferences, then these changes will be reflected in our backend, and the user will either start receiving, or no longer receive messages in the forms of their choosing.

User Story: As a user, I want to be able to specify who can read/modify individual notes that I have created.

Task Description	Estimated Time	Owner
Create a button when creating or editing a note that allows users to specify other users in their house to have read/edit permissions.	5	Derek

Acceptance Criteria:

Given a user that is logged in and part of a house, when the user chooses to create or edit a note, then they will be given the option to specify rights for individual users.

Backlog

Functional

- As a user, I want to be able to pay or request money from roommates.
- As a user, I want to be able to keep track of how much my roommates owe me
- As a user group, we want to be able to pool money together for group expenses
- As a user, I want all the above to be done with a familiar financial service
- As a user group, we want to have a common shopping list
- As a user group, we want a rotating schedule of chores
- As a user group, we want a voting system for group decisions
- As a user, I want an aesthetically pleasing interface

Non-Functional

- As a sysadmin, I want to be able to scale the service easily
- As a user, I want a simple and effective service
- As a developer, I want modularity to ease the creation of new features