

Sprint 1 Planning

Sublettr

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Sprint Overview

Sprint Details

Task Area	Team Members	Estimated Work Hours
Front End	Michael, Joel	
Server	Jeremy, Joel	
Database	Michael, Josh	
Scraping Service	Jeremy	

1. As a user, I would like to see/share images of the property.

Team	Hours	Description
Front End	5	Build a UI that can handle one to many images and wrap them cleanly on the screen.
Front End	1	Have a button or option on the image that shares them with another user.
Server	2	Be able to handle multiple image access at any given time.
Server	2	Be able to return sharable links to a user request.
Database	6	Create a way to store and retrieve images.

Acceptance Criteria:

- Successful listing of images that displays information about a property.

2. As a lister, I would like to advertise/post my residence for a sublease.

Team	Hours	Description
Front End	3	Build an interface for inputting data about subleases for posting.
Server	4	Create resources to validate addresses and info about sublease.
Database	3	Create a new row in sublet data table and architect an organized way to store data.

Acceptance Criteria:

- Multiple dialog boxes (some optional, some required) to input data into.
- Data is accepted and post is visible on the webpage.

3. As a user, I would like to review properties after staying.

Team	Hours	Description
Front End	3	Construct a way to input ratings and show it on the sublet's postings.
Front End	2	Allow viewing ratings on sublet pages.
Server	3	Validate the user that's reviewing has stayed in sublet and allow for rating data.
Database	2	Assign new ratings to sublet's table and return average rating to server when prompted.

Acceptance Criteria:

- There will be a review section under properties that have a star rating and comment box.
- Ratings are shown in sublet page for unit that has reviews.

4. As a user, I would like to be able to save subleases I am interested in

Team	Hours	Description
Front End	1	Have a clickable button intended to save the post.
Front End	2	Create a “Saved” page on user’s profile
Server	2	Translate a save action to database.
Server	2	Return saved pages from database when requested on user’s page.
Database	3	Flag sublet as saved for specified user.
Database	1	Be able to return saved sublets when requested

Acceptance Criteria:

- Sublets are able to be saved to user profile and returned when viewing “Saved” section inside the user’s profile.

5. As a lister, I would like to be able to add tags to properties (furnished, scenic etc.)

Team	Hours	Description
Front End	3	Allow for tags to be attributed to sublets on the post or when creating a post.
Front End	4	View and sort by tags.
Server	2	Handle multiple tags being attributed to a single sublet.
Database	2	Add or remove from sublet’s tags in the database and return them.

Acceptance Criteria:

- Tags can be attributed to properties and can be used to sort by, or view certain features of sublets.

6. As a lister, I would like to be able to edit posts of properties

Team	Hours	Description
Front End	3	Create a dialog to edit data on a post.
Server	2	Handle requests to edit pre-existing data. Validate user editing data is the original poster.
Database	2	Change, remove, or add fields in sublet table.

Acceptance Criteria:

- Sublet data is able to be manipulated and saved by the poster.

7. As a user, I would like to see posts from Facebook pages. (Purdue Housing Rent/Sublease)

Team	Hours	Description
Scraping Service	5	Create tool to search local websites for new postings once a day.
Server	2	Validate address doesn't already exist inside posting data.
Database	3	Receive data from scraping service and create new posts.

Acceptance Criteria:

- Posts that don't exist already are created from data collected from local Facebook selling pages.

8. As a user, I would like to see posts from other apartment sites such as BoilerApartments, ApartmentGuide, etc

Team	Hours	Description
Scraping Service	4	Create module that can scrape arbitrary websites
Scraping Service	4	Create specific parsers for BoilerApartments and ApartmentGuide

Server	3	Create module that will process scraped data and store in database
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Acceptance Criteria: Sites other than Facebook are now scraped for data and posts are generated.

- Given a listing exists on BoilerApartment, when a user visits sublettr.com, then there should be a similar listing present
- Given a listing exists on both BoilerApartments and Sublettr, when a user compares the two listings, then information that is displayed on both sites should be identical

9. As a lister, I would like to be able to have profile with details such as location, contact info, and profile picture

Team	Hours	Description
Front End	6	Create profile page so users can view their profile as well as other users
Front End	6	Create an edit profile page to edit profile details after creation
Server	3	Add POST/PATCH for user to create/edit user info
Database	2	Create tables for user info

Acceptance Criteria:

- Given a user has added profile information, when they navigate to their profile, then a user will see their own profile information
- Given a user has added profile information, when they edit their profile, save it, and navigate to their profile, then the information should be updated
- Given a user can click on another user's name, when they click on their name, then they will see that user's public profile

10. As a user, I would like a map of all locations and be able to highlight a specific area instead of searching.

Team	Hours	Description
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Frontend	8	Create map using google maps js plugins
Frontend	2	Plot houses on map
Server	4	Create API to serve house locations to client
Frontend	4	Create function that only displays houses in highlighted area on map

Acceptance Criteria:

- Given a user is looking at houses, when they look at the map, then there should be pins representing housing options
- Given a user is looking at the map, when they highlight the map, then a search should be kicked off with houses in the highlighted area
- Given a user is looking at the map, when they select a pin from the map, then they should be redirected to the representative postings page

11. As a user, I would like to see how many roommates, if any, are going to be in the apartment i'm renting/subletting and some anonymous information about them.

Team	Hours	Description
Frontend	2	Create a roommate button that shows number of roommates on posting page
Frontend	4	Create modal that displays roommate info on roommate button click
Server	6	Create API to access roommate info
Database	4	Create table association between users that will be roommates in a house

Acceptance Criteria:

- Given a user is looking at a post, when they look at the house info, then they should see a button with the amount of roommates and the roommate symbol
- Given a user is looking at a post, when they click on the roommate button, then a modal will appear
- Given a user has clicked on the roommate button, when they look at the modal, then they will see info about any roommates at the current location

12. As a developer, I would like to scrape local sublet listings from Facebook, etc.

Team	Hours	Description
Scraping Service	8	Create program that can scrape the Purdue housing/sublease Facebook for new listings
Server	6	Create service that processes and stores scraping results
Server	4	Allow service to cache results from scraping to reduce

Acceptance Criteria:

- Given a user visits sublettr.com, when the site loads, then listings from the facebook page should be present
- Given a user is viewing sublets, when they examine the listings, then there should not be duplicate listings
- Given a user is revisiting sublettr.com in the same hour, when they examine listings, then the same listings should be available as before

13. As a developer, I would like to have automated deployment and be alerted if the website goes down for any reason. (Docker)

Team	Hours	Description
Server	4	Set up Docker
Scraping Service	2	Set up Docker

Acceptance Criteria:

- Given that a user commits to the QA branch in GitHub, Docker automatically compiles and deploys the code.
- Given the website goes down, Docker sends an email to the development team that the site is down

14. As a user, I would like my website flow to be straightforward and never be confused about site navigation.

Team	Hours	Description
Front End	3	Create breadcrumbs for areas of the site that are difficult to navigate
Front End	3	Create navbar at the top of the site for common navigation endpoints

Acceptance Criteria:

- Given that a user is on a certain part of the site, they have a breadcrumb trail to view their
- Given a user is on a page, they can navigate to any other part of the site in three clicks or less

15. As a developer, I would like any sensitive data, such as chat logs or personal information, to be encrypted on our server using the best techniques possible. (HTTPS, 512-Bit Encryption, etc)

Team	Hours	Description
Server	3	Implement HTTPS
Server	3	Implement Password encryption
Server	3	Implement Personal Information encryption

Acceptance Criteria:

- Given that a password is stored, it is stored encrypted
- Given that personal information is stored, it is encrypted.

Remaining Backlog Items

Backlog ID	Functional Requirements
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1	As a user, I would like to search through sublease listings in my area.
4	As a user, I would like to message property owners.
6	As a user, I would like to sort and filter posts on different criteria; distance, rating cost.
9	As a user, I would like to be able to sort properties by location.
12	As a user, I would like to be able to tell if a property I am interested already is in the process of being reserved
13	As a lister, if my property is scraped from an external website, I would like to be notified if my apartment is being displayed (time permitting)
16	As a user, I would like to see apartment complexes and wholesale apartment lessors that have subleases available
18	As a lister, I would like to post open houses of apartments
20	As a user, I would like to enable a heatmap on the apartment map with the highest subleased or most desirable apartments highlighted.
22	As a lister, I would like to request a membership or a flat fee that gives me priority in search results over other subletters when users of the site search for apartments like mine. (Time Permitting)
23	As a lister, I would like to view statistics on the web traffic of my listing and if those users are visiting any similar listings. (Time Permitting)

Backlog ID	Non-Functional Requirements
2	As a developer, I would like the server to handle up to ~200 concurrent users without decrease in latency.
5	As a user, I would like the website to have animations.
8	As a developer, I would like to have a fast and automatic recovery if the site goes down for any reason.
9	As a user, I would like the website UI to be mobile ready (Time Permitting).
10	As a user, I would like the website to have a 2 second or less loading time for all pages.