
Project Backlog

Subleasing Application

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Team 9

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Problem Statement

Currently, there are many individuals at Purdue searching for subleases. Many times, people will put their advertisement up on Facebook or an apartment selling website only to have no one look at the post. A person may even be undersold by their own website, giving preference over renting long term than subleasing. This creates many unnoticed opportunities that individuals in Lafayette and West Lafayette miss out on. Our aim is to streamline this process and make it much easier for an individual to lease and find an apartment.

Background Information

- Audience: Persons in the Lafayette area who are looking to sublease their space or find a sublease.
- Similar Applications such as Flip, BoilerApartments, or ApartmentGuide.com do not have many, good apartment leases that are Purdue/West Lafayette focused as well as easy to use.
 - Most of these applications have leasings, but they are not subleases or they get buried underneath less relevant results.
- Existing Limitations: A single resource to find or post sublease applications

Requirements (Backlog)

Functional

1. As a user, I would like to search through sublease listings in my area.
2. As a user, I would like to see/share images of the property.
3. As a lister, I would like to advertise/post my residence for a sublease.
4. As a user, I would like to message property owners.
5. As a user, I would like to review properties after staying.

6. As a user, I would like to sort and filter posts on different criteria; distance, rating, cost.
7. As a user, I would like to be able to save subleases I am interested in
8. As a user, I would like to favorite subleases.
9. As a user, I would like to be able to sort properties by location.
10. As a lister, I would like to be able to add tags to properties (furnished, scenic etc.)
11. As a lister, I would like to be able to edit posts of properties
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)
14. As a user, I would like to see posts from Facebook pages. (Purdue Housing Rent/Sublease)
15. As a user, I would like to see posts from other apartment sites such as BoilerApartments, ApartmentGuide, etc
16. As a user, I would like to see apartment complexes and wholesale apartment lessors that have subleases available
17. As a lister, I would like to be able to have profile with details such as location, contact info, and profile picture
18. As a lister, I would like to post open houses of apartments
19. As a user, I would like a map of all locations and be able to highlight a specific area instead of searching.
20. As a user, I would like to enable a heatmap on the apartment map with the highest subleased or most desirable apartments highlighted.
21. 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.
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)

Non-Functional

1. As a developer, I would like to scrape local sublet listings from Facebook, etc.
2. As a developer, I would like the server to handle up to ~200 concurrent users without decrease in latency.
3. As a developer, I would like to have automated deployment and be alerted if the website goes down for any reason. (Docker)

4. As a user, I would like to have a clean UI experience that is not cluttered with too many features or elements on the landing page.
5. As a user, I would like the website to have animations.
6. As a user, I would like my website flow to be straightforward and never be confused about site navigation.
7. 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)
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.
11. As a developer, I would like the front end to be using bootstrap and primeng instead of angular material for easier maintainability and quicker workflow.