

Software Engineering

Project – 2

Team Members:

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1. Poster-

NC STATE

WolfLease

Your All-in-One Solution For Seamless Leasing Experiences


Group - 79
Mihir Shah
Kenil Patel
Jap Purohit

Improvements


- UI/UX Enhancement:** Redesigned the user interface, including a modernized login page with validation for enhanced usability and security.
- CRUD Operations:** Implemented full CRUD functionality, allowing users to create, view, edit, and delete listings and profiles, providing flexibility and control over content.
- Cloud Hosting:** Deployed application on the cloud, enabling accessibility and scalability for a larger user base.
- Login Validations:** Added robust validation in the login process to enhance security and prevent unauthorized access.
- Database Integration:** Incorporated a database to manage and store user data effectively, ensuring data consistency and support for complex queries

Future Scope

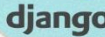
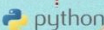
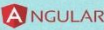
- Advanced Roommate Matching:** Develop a smarter, preference-based roommate matching system that uses filters like lifestyle, budget, and interests for better recommendations.
- In-App Payments:** Add secure in-app payment options for deposits, rent, or other expenses to streamline transactions between tenants and landlords.
- User Reviews and Ratings:** Allow users to review landlords, listings, and roommates, contributing to a trusted and transparent community.









Code QR



Demo QR







First Name*

Enter First Name

Last Name*

Enter Last Name

Username*

Enter Username

Email*

Enter Email

Password*

Password

Confirm the Password*

Re-enter Password

Already have an account? Login Now

Sign Up

WOLF LEASE

Welcome Back!!!
Wolflease

Fig-1 SignUp Page

Username*

Enter Username

Password*

Enter Password

Don't have an account? Register Now

Login

WOLF LEASE

Welcome Back!!!
Wolflease

Fig-2 Login Page

Add Owner

Username

Enter Username

Password

Password

Save

Cancel

Save

Fig-3 Adding Owners Page

Owners Grid

ID	Owner number	Owner email	Action
1	1234567	john@wolflease.com	View
2	7654321	wolf@wolflease.com	View

Showing 2 of 2 owners

Fig-4 List Of Owners

Add Owner

Username

Enter Username

Password

Password

Save

Cancel

Save

Fig-5 Update Owners Page

Owners Grid

ID	Owner number	Owner email	Action
1	1234567	john@wolflease.com	View
2	7654321	wolf@wolflease.com	View

Showing 2 of 2 owners

Fig-6 Owner Updated Successfully

Owners Grid

ID	Owner number	Owner email	Action
1	1234567	john@wolflease.com	View
2	7654321	wolf@wolflease.com	View

Showing 2 of 2 owners

Confirm Delete
Are you sure you want to delete this owner?

Cancel

Delete

Fig-7 Delete Owner Page

2. [GitHub Link](#)

3. [Video Link](#)

4. Project Rubric

Project Rubric		
Total Points from Self-Assessment: 261		
Grading Points	Self-Assessment	Links
workload is spread over the whole team (one team member is often X times more productive than the others... but nevertheless, here is a track record that everyone is contributing a lot)	3	Contributor Stats
Number of commits	3	commit stats
Number of commits: by different people	3	commit stats
Issues reports: there are many	3	bug reports
issues are being closed	3	closed tasks
DOI badge: exists	3	DOI
Docs: doco generated , format not ugly	3	README.md
Docs: what: point descriptions of each class/function (in isolation)	3	README.md
Docs: how: for common use cases X,Y,Z mini-tutorials showing worked examples on how to do X,Y,Z	3	README.md

Docs: why: docs tell a story, motivate the whole thing, deliver a punchline that makes you want to rush out and use the thing	3	README.md
Docs: short video, animated, hosted on your repo. That convinces people why they want to work on your code.	3	Video
Use of version control tools	3	
Use of style checkers	3	Pylint used
Use of code formatters.	3	Pylint used
Use of syntax checkers.	3	Pylint used
Use of code coverage	3	
other automated analysis tools	3	codecov automation
test cases exist	3	test directory
test cases are routinely executed	3	Git Action
the files CONTRIBUTING.md lists coding standards and lots of tips on how to extend the system without screwing things up	3	CONTRIBUTING.md
issues are discussed before they are closed	3	House, WhatsApp, Microsoft Teams

Chat channel: exists	3	House, WhatsApp, Microsoft Teams
test cases: a large proportion of the issues related to handling failing cases.	2	Issues
evidence that the whole team is using the same tools: everyone can get to all tools and files	3	Use of Github throughout with frequent commits
evidence that the whole team is using the same tools (e.g. config files in the repo, updated by lots of different people)	3	requirements.txt
evidence that the whole team is using the same tools (e.g. tutor can ask anyone to share screen, they demonstrate the system running on their computer)	3	
evidence that the members of the team are working across multiple places in the code base	3	
short release cycles	3	Releases
Does your website and documentation provide a clear, high-level overview of your software?	3	README.md
Does your website and documentation clearly describe the type of user who should use your software?	3	README.md

Do you publish case studies to show how your software has been used by yourself and others?	0	
Is the name of your project/software unique?	3	
Is your project/software name free from trademark violations?	3	
Is your software available as a package that can be deployed without building it?	3	AWS
Is your software available for free?	3	
Is your source code publicly available to download, either as a downloadable bundle or via access to a source code repository?	3	
Is your software hosted in an established, third-party repository like GitHub (https://github.com), BitBucket (https://bitbucket.org), LaunchPad (https://launchpad.net) or SourceForge (https://sourceforge.net)?	3	repo
Is your documentation clearly available on your website or within your software?	3	README.md
Does your documentation include a "quick start" guide, that provides a short	3	README.md

overview of how to use your software
with some basic examples of use?

If you provide more extensive
documentation, does this provide clear,
step-by-step instructions on how to deploy
and use your software?

3

[README.md](#)

Do you provide a comprehensive guide to
all your software's commands, functions
and options?

3

[README.md](#)

Do you provide troubleshooting
information that describes the symptoms
and step-by-step solutions for problems
and error messages?

3

[README.md](#)

If your software can be used as a library,
package or service by other software, do
you provide comprehensive API
documentation?

3

[README.md](#)

Do you store your documentation under
revision control with your source code?

3

Do you publish your release history e.g.
release data, version numbers, key
features of each release etc. on your web
site or in your documentation?

3

Does your software describe how a user
can get help with using your software?

3

[CONTRIBUTING.
md](#)

Does your website and documentation describe what support, if any, you provide to users and developers?	3	CONTRIBUTING.md
Does your project have an e-mail address or forum that is solely for supporting users?	3	CONTRIBUTING.md
Are e-mails to your support e-mail address received by more than one person?	3	
Does your project have a ticketing system to manage bug reports and feature requests?	3	
Is your project's ticketing system publicly visible to your users, so they can view bug reports and feature requests?	3	
Is your software's architecture and design modular?	3	Commands and features are separate from each other in general.
Does your software use an accepted coding standard or convention?	3	Pylint used
Does your software allow data to be imported and exported using open data formats? *		N/A

Does your software allow communications using open communications protocols? *		N/A: Discord-specific program
Is your software cross-platform compatible?	3	Just as discord is cross-platform.
Does your software adhere to appropriate accessibility conventions or standards? *	3	text-based commands & responses
Does your documentation adhere to appropriate accessibility conventions or standards? *	3	Mostly text-based, some screenshots which may not be accessible
Is your source code stored in a repository under revision control?	3	
Is each source code release a snapshot of the repository? *	3	
Are releases tagged in the repository? *	3	
Is there a branch of the repository that is always stable? (i.e. tests always pass, code always builds successfully)	3	Master branch is always kept stable by restricting direct commits to master
Do you back-up your repository?	3	Github and cloned repo's

		developers worked on
Do you provide publicly-available instructions for building your software from the source code?	3	INSTALL.md
Can you build, or package, your software using an automated tool?	3	We can do this using Docker
Do you provide publicly-available instructions for deploying your software?	3	INSTALL.md
Does your documentation list all third-party dependencies?	3	requirements.txt
Does your documentation list the version number for all third-party dependencies?	3	requirements.txt
Does your software list the web address, and licences for all third-party dependencies and say whether the dependencies are mandatory or optional?	0	
Can you download dependencies using a dependency management tool or package manager?	3	requirements.txt listed, evidenced in use of Github Actions
Do you have tests that can be run after your software has been built or deployed to show whether the build or deployment has been successful?	3	INSTALL.md

Do you have an automated test suite for your software?	3	INSTALL.md
Do you have a framework to periodically (e.g. nightly) run your tests on the latest version of the source code?	3	Github Actions
Do you use continuous integration, automatically running tests whenever changes are made to your source code?	3	Github Actions
Are your test results publicly visible?	3	Github Actions
Are all manually-run tests documented?	3	All test cases are automated and documented
Does your project have resources (e.g. blog, Twitter, RSS feed, Facebook page, wiki, mailing list) that are regularly updated with information about your software?	0	
Does your website state how many projects and users are associated with your project?	3	README.md
Do you provide success stories on your website?	0	
Do you list your important partners and collaborators on your website?	3	Insights

Do you list your project's publications on your website or link to a resource where these are available?	3	Releases
Do you list third-party publications that refer to your software on your website or link to a resource where these are available?	0	
Can users subscribe to notifications to changes to your source code repository?	3	
If your software is developed as an open source project (and, not just a project developing open source software), do you have a governance model?	3	
Do you accept contributions (e.g. bug fixes, enhancements, documentation updates, tutorials) from people who are not part of your project?	3	
Do you have a contributions policy?	3	CONTRIBUTING.md
Is your contributions' policy publicly available?	3	CONTRIBUTING.md
Do contributors keep the copyright/IP of their contributions?	0	Project under MIT license
Does your website and documentation clearly state the copyright owners of your software and documentation?	3	LICENSE

Does each of your source code files include a copyright statement?	1	Project under MIT license
Does your website and documentation clearly state the licence of your software?	3	README.md
Is your software released under an open source licence?	3	LICENSE
Is your software released under an OSI-approved open-source licence?	3	LICENSE
Does each of your source code files include a licence header?	0	
Do you have a recommended citation for your software?	3	CITATION.cff
Does your website or documentation include a project roadmap (a list of project and development milestones for the next 3, 6 and 12 months)?	3	Issues
Does your website or documentation describe how your project is funded, and the period over which funding is guaranteed?		N/A
Do you make timely announcements of the deprecation of components, APIs, etc.?	3	We will make timely announcements