

Team Members:

Member 1: Ananya Patankar (apatank)

Member 2: Chaitralee Datar (sburji)

Member 3: Yash Shah (yshah5)

=> The link to our repository : <https://github.com/SE-Alpha-Project/PackFinder>

=> Poster



PACKFINDER

NC STATE UNIVERSITY

Find the perfect roommate and create lasting connections! At PackFinder, we help you navigate the search for a roommate with ease and confidence.

FEATURES

- **NC State Exclusivity:** Designed exclusively for NC State students, ensuring a secure and community-focused environment where you can connect with fellow students.
- **Tailored Roommate Search:** Our Wolf Filter lets you refine your search based on specific criteria, helping you find roommates who match your lifestyle and preferences.
- **Smart Matching System:** Our advanced matching algorithm uses Manhattan Distance to provide precise roommate recommendations, taking your preferences into account for optimal pairings.
- **Enhanced Security Features:** With integrated email verification and password reset options along with nearly **60 test cases**, your account security is our priority, giving you peace of mind as you connect with others.
- **Customizable Visibility Settings:** Manage your roommate search status effortlessly with our visibility controls, allowing you to choose when and how you appear to potential matches.



FUTURE SCOPE

- **Pack Connect:** Our personalized in-app chat that connects you with potential roommates based on your lifestyle preferences and interests, helping you find your ideal living partner within the Wolfpack community.
- **Roommate Compatibility Calculator:** Estimate compatibility scores with potential roommates by considering factors like lifestyle, interests, and habits, making it easier to find someone you'll get along with.
- **Howl Alerts:** Receive real-time notifications when new compatible roommates join the platform or when your saved matches update their profiles.
- **Automated Testing:** Benefit from a reliable experience with automated testing through GitHub workflows, ensuring the platform runs smoothly and efficiently.
- **Roommate Agreement Builder:** Create a customized roommate agreement template based on your selected preferences and boundaries, making expectations clear and reducing future misunderstandings.



WHAT'S NEW

- **Weighted Filtering System:** Prioritize what matters most to you with our weighted filtering, allowing you to adjust preferences for lifestyle habits, cleanliness, schedules, and more, ensuring matches align closely with your top priorities.
- **Compatibility Quiz:** There is more to finding an ideal roommate than just their gender, coursework or food habits. It is also about mindset and behavior and this quiz provides a medium for just that!
- **UI/UX Improvements:** The same beloved roommate finder, more intuitive and user-friendly!
- **Robust API Integration:** Our platform features numerous API routes, making it easy for third-party apps to connect with us.
- **Easy and Efficient Matching:** Our advanced matching algorithms simplify the roommate search process.



OUR REPOSITORY



SCAN ME!

At PackFinder, we believe in transparency and collaboration. Here's what makes our repository special

- Open Source Collaboration
- Version Control
- Continuous Integration
- Documentation
- Community-Driven Development




SCREENSHOT



=> The scores provided below represent the scores of the above team members.

Notes	Score	Evidence
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	Link: https://github.com/SE-Alpha-Project/PackFinder While the number of commits may differ among team members, the level of contribution to the project's development remains consistent.
Number of commits	3	Link: https://github.com/SE-Alpha-Project/PackFinder/branches
Issues reports: there are many	3	Issues Opened: 1 Link: https://github.com/SE-Alpha-Project/PackFinder/issues?q=is%3Aissue+author%3A%40me+is%3Aclosed
Issues are being closed	3	Issues Closed: 1 Link: https://github.com/SE-Alpha-Project/PackFinder/issues/
Docs: doco generated, format not ugly	3	Hosted on GitHub Wiki Link: https://github.com/SE-Alpha-Project/PackFinder/wiki
Docs: what: point descriptions of each class/function (in isolation)	3	Hosted on GitHub Wiki Link: https://github.com/SE-Alpha-Project/PackFinder/wiki
Docs: how: for common use cases X,Y,Z mini-tutorials showing worked examples on how to do X,Y,Z	3	Hosted on GitHub Wiki Link: https://github.com/SE-Alpha-Project/PackFinder/wiki
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	Link: https://github.com/SE-Alpha-Project/PackFinder?tab=readme-ov-file

Docs: short video, animated, hosted on your repo. That convinces people why they want to work on your code.	3	Link: https://github.com/SE-Alpha-Project/PackFinder?tab=readme-ov-file
Use of version control tools	3	Git version control tool
Test cases exist	3	https://github.com/SE-Alpha-Project/PackFinder/tree/dev/src/tests
Test cases are routinely executed	3	https://github.com/SE-Alpha-Project/PackFinder/actions/workflows/Unit_Tests.yml
Issues are discussed before they are closed	3	https://github.com/SE-Alpha-Project/PackFinder/issues/13
Chat channel: exists	3	Link:  Conversation_history
Test cases: a large proportion of the issues related to handling failing cases.	2	https://github.com/SE-Alpha-Project/PackFinder/issues/13
Evidence that the whole team is using the same tools: everyone can get to all tools and files	3	The team has utilized a shared codebase, common tools, and standardized configuration settings.
Evidence that the whole team is using the same tools (e.g. config files in the repo, updated by lots of different people)	3	The team has utilized a shared codebase, common tools, and standardized configuration settings.
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	The team has utilized a shared codebase, common tools, and standardized configuration settings.
Evidence that the members of the team are working across multiple places in the code base	2	Link: https://github.com/SE-Alpha-Project/PackFinder/branches
Short release cycles	3	The project receives regular commits from all team members.
The file .gitignore lists what files should not be saved to the repo. See examples: https://github.com/github/gitignore	3	Link: https://github.com/SE-Alpha-Project/PackFinder/blob/main/.gitignore

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The file INSTALL.md lists how to install the code	3	Link: https://github.com/SE-Alpha-Project/PackFinder/blob/dev/README.md
The file LICENSE.md lists rules of usage for this repo	3	Link: https://github.com/SE-Alpha-Project/PackFinder/blob/dev/LICENSE.md
The file CODE-OF-CONDUCT.md lists rules of behavior for this repo; e.g. see example	3	Link: https://github.com/SE-Alpha-Project/PackFinder/blob/main/CODE-OF-CONDUCT.md
The file CONTRIBUTING.md lists coding standards and lots of tips on how to extend the system without screwing things up; e.g. see example	3	Link: https://github.com/SE-Alpha-Project/PackFinder/blob/dev/CONTRIBUTING.md
The file README.md contains all the following		
Video	3	Link: https://github.com/SoftwareEngineering-HomeWork/application-tracking-system/blob/main/resources/ApplicationTrackingAnimation.gif
DOI badge: exists.	3	
Badges showing your style checkers	3	
Badges showing your code formatters.	3	
Badges showing your syntax checkers.	1	
Badges showing your code coverage tools	3	
Badges showing any other Other automated analysis tools	2	

Questionnaire		
Does your website and documentation provide a clear, high-level overview of your software?	Yes	Link: https://github.com/SE-Alpha-Project/PackFinder/blob/dev/README.md
Does your website and documentation clearly describe the type of user who should use your software?	Yes	Link: https://github.com/SE-Alpha-Project/PackFinder/blob/dev/README.md
Do you publish case studies to show how your software has been used by yourself and others?	No	We have developed test cases, but we have not published any case studies.
Is the name of your project/software unique?	No	We found no indication that JTracker is registered as a trademark.
Is your project/software name free from trademark violations?	Yes	The project is licensed under the MIT License, and we have reached out to the early contributors regarding its usage.
Is your software available as a package that can be deployed without building it?	No	PackFinder can be made available to the people.
Is your software available for free?	Yes	MIT Licensed
Is your source code publicly available to download, either as a downloadable bundle or via access to a source code repository?	Yes	MIT Licensed Link: https://github.com/SE-Alpha-Project/PackFinder/blob/dev/LICENSE.md
Is your software hosted in an established, third-party repository like GitHub (https://github.com), BitBucket (https://bitbucket.org), Launch Pad (https://launchpad.net) or SourceForge	Yes	Link: https://github.com/SE-Alpha-Project/PackFinder/blob/dev

(https://sourceforge.net)?		
Is your documentation clearly available on your website or within your software?	Yes	Link: https://github.com/SE-Alpha-Project/PackFinder/blob/dev/README.md
Does your documentation include a "quick start" guide, that provides a short overview of how to use your software with some basic examples of use?	Yes	Link: https://github.com/SE-Alpha-Project/PackFinder/blob/dev/README.md
If you provide more extensive documentation, does this provide clear, step-by-step instructions on how to deploy and use your software?	Yes	Link: https://github.com/SE-Alpha-Project/PackFinder/blob/dev/README.md
Do you provide a comprehensive guide to all your software's commands, functions and options?	Yes	Link: https://github.com/SE-Alpha-Project/PackFinder/wiki
Do you provide troubleshooting information that describes the symptoms and step-by-step solutions for problems and error messages?	No	
If your software can be used as a library, package or service by other software, do you provide comprehensive API documentation?	Yes	GitHub Wiki has the documentation for Backend APIs Link: https://github.com/SE-Alpha-Project/PackFinder/wiki
Do you store your documentation under revision control with your source code?	Yes	Link: https://github.com/SE-Alpha-Project/PackFinder/blob/dev/README.md
Do you publish your release history e.g. release data, version numbers, key features of each release etc. on your	No	

web site or in your documentation?		
Does your software describe how a user can get help with using your software?	Yes	
Does your website and documentation describe what support, if any, you provide to users and developers?	Yes	Link: https://github.com/SE-Alpha-Project/PackFinder/blob/dev/CONTRIBUTING.md
Does your project have an e-mail address or forum that is solely for supporting users?	Yes	
Are e-mails to your support e-mail address received by more than one person?	Yes	
Does your project have a ticketing system to manage bug reports and feature requests?	Yes	Link: https://github.com/SE-Alpha-Project/PackFinder/issues/13
Is your project's ticketing system publicly visible to your users, so they can view bug reports and feature requests?	Yes	Link: https://github.com/SE-Alpha-Project/PackFinder/issues/13
Is your software's architecture and design modular?	Yes	MVT Architecture
Does your software use an accepted coding standard or convention?	Yes	MVT Architecture
Does your software allow data to be imported and exported using open data formats? e.g. GIF, SVG, HTML, XML, tar, zip, CSV, JSON, NetCDF, or domain specific ones	Yes	JSONm HTML
Does your software allow communications using open communications protocols?	Yes	HTTP

e.g. HTTP, FTP, XMPP, SOAP over HTTP, or domain-specific ones		
Is your software cross-platform compatible? e.g. does it run under two or more of Windows, Unix/Linux and Mac OS X, or can be used from within two or more of Internet Explorer, Chrome, Firefox and Safari?	Yes	Software is platform independent
Does your software adhere to appropriate accessibility conventions or standards?	Yes	
Does your documentation adhere to appropriate accessibility conventions or standards?	Yes	
Is your source code stored in a repository under revision control?	Yes	GitHub
Is each source code release a snapshot of the repository?	No	
Are releases tagged in the repository?	No	
Is there a branch of the repository that is always stable? (i.e. tests always pass, code always builds successfully)	Yes	Main
Do you back-up your repository?	Yes	GitHub, Local
Do you provide publicly-available instructions for building your software from the source code?	Yes	Link: https://github.com/SE-Alpha-Project/PackFinder/blob/dev/README.md
Can you build, or package, your software using an automated tool? e.g. Make	No	

(https://www.gnu.org/software/make/) , ANT (http://ant.apache.org/), Maven (https://maven.apache.org/), CMake (https://cmake.org/), Python setuptools (https://pypi.python.org/pypi/setuptools), or R package tools (https://cran.r-project.org/doc/manuals/r-devel/R-exts.html)		
Do you provide publicly-available instructions for deploying your software?	No	Project is not deployed as of current phase
Does your documentation list all third-party dependencies?	Yes	Badges in Readme Link: https://github.com/SE-Alpha-Project/PackFinder/blob/dev/README.md
Does your documentation list the version number for all third-party dependencies?	No	
Does your software list the web address, and licences for all third-party dependencies and say whether the dependencies are mandatory or optional?	No	
Can you download dependencies using a dependency management tool or package manager? e.g. Ivy (http://ant.apache.org/ivy/), Maven (https://maven.apache.org/), Python pip (https://pypi.python.org/pypi/pip) or setuptools (https://pypi.python.org/pypi/setuptools), PHP Composer (https://getcomposer.org/), Ruby gems (https://rubygems.org), or R PackRat (https://rstudio.github.io/packrat/)	Yes	Pip, curl

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?	Yes	
Do you have an automated test suite for your software?	Yes	
Do you have a framework to periodically (e.g. nightly) run your tests on the latest version of the source code?	Yes	
Do you use continuous integration, automatically running tests whenever changes are made to your source code?	No	
Are your test results publicly visible?	Yes	
Are all manually-run tests documented?	No	Run and deployed
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? e.g. release announcements, publications, workshops, conference presentations	Yes	Wiki
Does your website state how many projects and users are associated with your project?	Yes	Contributors on GitHub
Do you provide success stories on your website?	No	
Do you list your important partners and collaborators on	No	

your website?		
Do you list your project's publications on your website or link to a resource where these are available?	No	
Do you list third-party publications that refer to your software on your website or link to a resource where these are available?	No	
Can users subscribe to notifications to changes to your source code repository?	Yes	
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?	Yes	MIT Licensed
Do you accept contributions (e.g. bug fixes, enhancements, documentation updates, tutorials) from people who are not part of your project?	Yes	Link: https://github.com/SE-Alpha-Project/PackFinder/blob/dev/CONTRIBUTING.md
Do you have a contributions policy?	Yes	Link: https://github.com/SE-Alpha-Project/PackFinder/blob/dev/CONTRIBUTING.md
Is your contributions' policy publicly available?	Yes	Link: https://github.com/SE-Alpha-Project/PackFinder/blob/dev/CONTRIBUTING.md
Do contributors keep the copyright/IP of their contributions?	Yes	MIT Licensed
Does your website and documentation clearly state the copyright owners of your software and documentation?	Yes	MIT Licensed

Does each of your source code files include a copyright statement?	No	However, the whole project is Licensed under MIT
Does your website and documentation clearly state the licence of your software?	Yes	Link: https://github.com/SE-Alpha-Project/PackFinder/blob/dev/LICENSE
Is your software released under an open source licence?	Yes	Link: https://github.com/SE-Alpha-Project/PackFinder/blob/dev/LICENSE
Is your software released under an OSI-approved open-source licence?	Yes	Link: https://github.com/SE-Alpha-Project/PackFinder/blob/dev/LICENSE
Does each of your source code files include a licence header?	No	
Do you have a recommended citation for your software?	No	
Does your website or documentation include a project roadmap (a list of project and development milestones for the next 3, 6 and 12 months)?	Yes	Future Scope in wiki Link: https://github.com/SE-Alpha-Project/PackFinder/wiki/What-we-aim-for-PackFinder...
Does your website or documentation describe how your project is funded, and the period over which funding is guaranteed?	No	We are at our initial phase as of now
Do you make timely announcements of the deprecation of components, APIs, etc.?	No	