CSC 510 Software Engineering

Group # 95

Group members:

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Video links:

https://youtu.be/wi0A6qIHnHk

https://youtu.be/0n-MzIKCS4w

GitHub repo: https://github.com/SE-Group-95/campus-job-review-system

Poster:

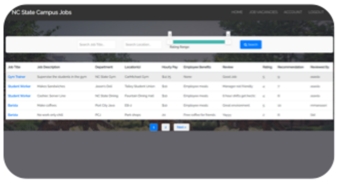
CAMPUS JOBS REVIEW SYSTEM

The NCSU Campus Job Review System is a dedicated web application that empowers NCSU students with authentic reviews of on-campus job opportunities. By providing peer-driven insights into job descriptions and work experiences, this platform aims to guide students toward roles that align with their skills and preferences. With real-time data updates, intuitive search filters, and containerized deployment for ease of access, the system is designed to make finding the right job both straightforward and informative.

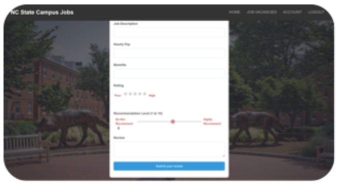
WHY CHOOSE US:

- Scalable Foundation: Built to easily support future expansions, including additional job portals and new interactive features.
- Student-Centric Design: Specifically tailored for NCSU students, providing focused, relevant job insights.
- Clear Documentation and Roadmap: Thorough documentation and a structured roadmap make it accessible and easy to enhance.
- Easy Deployment with Containerization: Dockerized for consistent, fast setup and deployment, simplifying future updates and scaling efforts.

WHAT WE ADDED:



Job Title	Job Description	Department	Location(s)	Hourly Pay	Employee Benefits	Review	Rating	Recommendation	Reviewed By
Gym Trainer	Supervise the students in the gym	NC State Gym	Carmichael Gym	$12.75	None	Good Job	5	9	[illegible]
Student Worker	Makes Sandwiches	Jason's Deli	Talley Student Union	$10	Employee meals	Manager not friendly	4	7	[illegible]
Student Worker	Cashier, Server Line	NC State Dining	Fountain Dining Hall	$10	Employee meals	6 hour shifts get hectic	4	8	[illegible]
Barista	Make coffees	Port City Java	EB-2	$10	Employee meals	Great environment	5	10	[illegible]
Barista	No work only chill	PCJ	Park shops	20	Free coffee for friends	Yayyy	2	8	Sid



Real-Time Job Listings: Dynamically refreshed job vacancies are displayed instantly as they become available, ensuring users have access to the most current opportunities.
Clear Documentation and Roadmap: Fully documented with a clear improvement plan, making it easy for new contributors.
Bug-Free Interface: Recent bug fixes have optimized search filters and UI layout, resulting in a cleaner, more reliable experience.
Containerized Deployment: Fast setup and deployment through containerization simplify installation and updates.
Streamlined User Experience: Targeted search and filtering for an optimal job search experience.

TECHSTACK CSS HTML

REPOSITORY LINK

VIDEO LINK

FUTURE SCOPE:

Additional Job Portals:	By integrating additional job portals, the system can provide a wider array of job opportunities on campus.This will give students access to diverse job types and increase the overall usefulness of the platform.
Enhanced Voting System:	Introducing upvote and downvote features will allow students to interact with reviews actively. This functionality will help surface the most helpful feedback, making it easier for users to find trusted insights.
Improved UI Design:	Future UI enhancements will focus on creating a cleaner and more responsive design. These improvements will ensure intuitive navigation and a seamless experience across devices.
Personalized Job Recommendations:	A tailored recommendation system suggests jobs based on user profiles and past reviews, enhancing relevance and discovery. Integrated with a job application tracking feature, it enables students to monitor their applications directly through the platform, streamlining their job search experience.

Group 95: Mayur Prakash Gotmare, Prachi Madhukar Navale, Sidharrth Sudeish Gandhi

	Total = 97	
Scoring Category	**Score**	**Comments/ Justification**
Video	3	Video link
Workload is spread over the whole team	3	New features divided amongst the team members
Number of commits	3	Total Number of commits: 197 (using git rev-list --count --all)
Number of commits: by different people	3	3 unique authors
Issues reports: there are many	3	13 Closed Issues and 0 open issues
Issues are being closed	3	All issues are closed
DOI badge: exists	3	Yes, all of them are present
Docs: docs generated, format not ugly	2	Link
Docs: what: point descriptions of each class/function (in isolation)	2	give a detailed explanation
Docs: how: for common use cases X,Y,Z mini-tutorials showing worked examples on how to do X,Y,Z	3	An example video present on documentation
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	

Docs: short video, animated, hosted on your repo. That convinces people why they want to work on your code.	3	clear working of the project
Use of version control tools	3	Project is maintained and well documented on git
Use of style checkers	3	Flake8
Use of code formatters.	2	Black
Use of syntax checkers.	3	VScode
Use of code coverage	3	81.2% of code coverage
Other automated analysis tools	2	Issues and Pull request tracking
Test cases exist	3	Present
Test cases are routinely executed	3	Yes, after every commit
The files CONTRIBUTING.md lists coding standards and lots of tips on how to extend the system without screwing things up	3	Clearly mentioned
Issues are discussed before they are closed	3	Issues discussed before closed
Chat channel: exists	3	Exists - https://discord.gg/uZTYqt3j
Test cases: a large proportion of the issues related to handling failing cases.	3	Good test coverage
Evidence that the whole team is using the same tools: everyone can get to all tools and files	3	Yes

Evidence that the whole team is using the same tools (e.g. config files in the repo, updated by lots of different people)	3	Yes
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	Yes
Evidence that the members of the team are working across multiple places in the code base	3	Various issues handled and closed by different people https://github.com/SE-Group-95/campus-job-review-system/issues
Short release cycles	2	https://github.com/SE-Group-95/campus-job-review-system/releases
The file .gitignore lists what files should not be saved to the repo. See [examples]i(https://github.com/github/gitignore)	3	https://github.com/SE-Group-95/campus-job-review-system/blob/main/.gitignore
The file INSTALL.md lists how to install the code	3	Yes
The file LICENSE.md lists rules of usage for this repo	3	Yes
The file CODE-OF-CONDUCT.md lists rules of behavior for this repo; e.g. see example	3	Yes
The file README.md contains all the following: Video DOI badge: exists. Badges showing your style checkers	3	https://github.com/SE-Group-95/campus-job-review-system/blob/main/README.md

Badges showing your code formatters. Badges showing your syntax checkers. Badges showing your code coverage tools Badges showing any other Other automated analysis tools		
Does your website and documentation provide a clear, high-level overview of your software?	Yes	
Does your website and documentation clearly describe the type of user who should use your software?	Yes	Clear instructions and audience provided in the README.md file
Do you publish case studies to show how your software has been used by yourself and others?	Yes	
Is the name of your project/software unique?	Yes	"NCSU Campus Job Review System" is specific and unlikely to conflict with other project names.
Is your project/software name free from trademark violations?	Yes	Based on the name, it does not appear to infringe on any trademarks.
Is your software available as a package that can be deployed without building it?	Yes	Can run on already built Docker image
Is your software available for free?	Yes	
Is your source code publicly available to download, either as a downloadable bundle or via access to a source code repository?	Yes	GH
Is your software hosted in an established, third-party repository likeGitHub (https://github.com), BitBucket	Yes	It is hosted on GitHub.

(https://bitbucket.org),LaunchPad (https://launchpad.net) orSourceForge (https://sourceforge.net)?		
Is your documentation clearly available on your website or within your software?	Yes	Some documentation is typically found in the README.md or similar files on GitHub.
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?	No	But a video explaining system is present.
If you provide more extensive documentation, does this provide clear, step-by-step instructions on how to deploy and use your software?	Yes	Present in INSTALL.md
Do you provide a comprehensive guide to all your software's commands, functions and options?	No	
Do you provide troubleshooting information that describes the symptoms and step-by-step solutions for problems and error messages?	Yes	
If your software can be used as a library, package or service by other software, do you provide comprehensive API documentation?	Yes	https://se-group-95.github.io/campus-job-review-system/app.html
Do you store your documentation under revision control with your source code?	Yes	
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?	Yes	In Releases

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	
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?	No	
Does your project have a ticketing system to manage bug reports and feature requests?	Yes	GitHub Issues can be used as a ticketing system, although its usage is not specified.
Is your project's ticketing system publicly visible to your users, so they can view bug reports and feature requests?	Yes	GitHub Issues are publicly accessible if used.
Is your software's architecture and design modular?	Yes	
Does your software use an accepted coding standard or convention?	Yes	coding standards like PEP 8 for Python
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)	No	
Does your software allow communications using open communications protocols?	Yes	HTTP
Is your software cross-platform compatible?	Yes	runs on Docker
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	The code is hosted on GitHub, which inherently provides version control.
Is each source code release a snapshot of the repository?	Yes	In Releases on GH
Are releases tagged in the repository?	Yes	In Releases on GH
Is there a branch of the repository that is always stable?	Yes	
Do you back-up your repository?	Yes	
Do you provide publicly-available instructions for building your software from the source code?	Yes	
Can you build, or package, your software using an automated tool?	Yes	Docker
Do you provide publicly-available instructions for deploying your software?	Yes	Yes all steps mentioned in install.md
Does your documentation list all third-party dependencies?	Yes	Yes, in requirements.txt
Does your documentation list the version number for all third-party dependencies?	Yes	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?	Yes	

Can you download dependencies using a dependency management tool or package manager?	Yes	Using docker
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	Yes we have test cases
Do you have an automated test suite for your software?	Yes	GitHub action workflow
Do you have a framework to periodically (e.g. nightly) run your tests on the latest version of the source code?	No	
Do you use continuous integration, automatically running tests whenever changes are made to your source code?	Yes	Tests run after each commit https://github.com/SE-Group-95/campus-job-review-system/actionsn
Are your test results publicly visible?	Yes	Yes, within code coverage
Are all manually-run tests documented?	No	
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	No	
Does your website state how many projects and users are associated with your project?	Yes	In README.md
Do you provide success stories on your website?	No	

Do you list your important partners and collaborators on your website?	Yes	
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	
Do you accept contributions (e.g. bug fixes, enhancements, documentation updates, tutorials) from people who are not part of your project?	Yes	
Do you have a contributions policy?	Yes	Contribution policy
Is your contributions' policy publicly available?	Yes	
Do contributors keep the copyright/IP of their contributions?	Yes	
Does your website and documentation clearly state the copyright owners of your software and documentation?	Yes	
Does each of your source code files include a copyright statement?	No	

Does your website and documentation clearly state the licence of your software?	Yes	Badge in README.md
Is your software released under an open source licence?	Yes	
Is your software released under an OSI-approved open-source licence?	Yes	MIT
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 README.md
Does your website or documentation describe how your project is funded, and the period over which funding is guaranteed?	No	N/A
Do you make timely announcements of the deprecation of components, APIs, etc.?	No	Still in initial releases of application