NC STATE UNIVERSITY

Master of Science, Department of Computer Science North Carolina State University

Coursework Session

2024 - 2025

CSC 510-001

Software Engineering

Team Members	Unity ID
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PROJECT 2NCSU CAMPUS JOB REVIEW SYSTEM 2.0

Declaration

We hereby declare that all work submitted for this coursework is our own, except where explicitly stated otherwise.

NCSU CAMPUS JOB REVIEW SYSTEM 2.0

Github Link: https://github.com/Rmv-se-510/NCSU Campus Jobs Review System 2.0

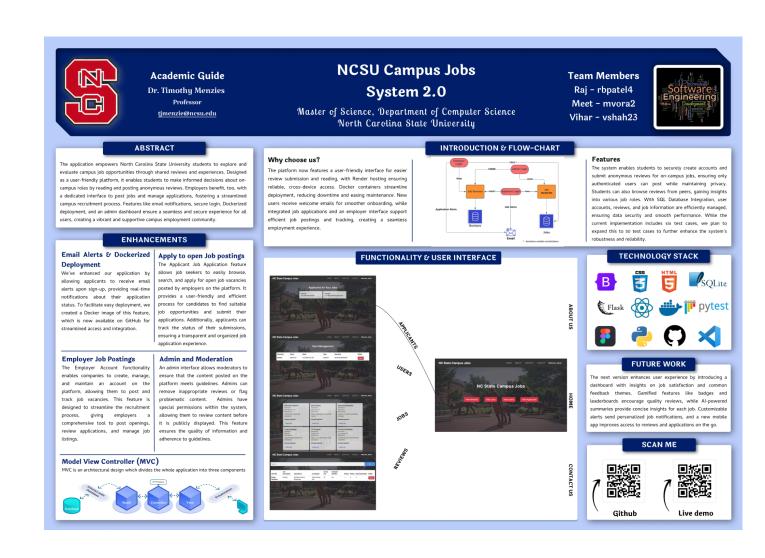
Documentation link:

https://rmv-se-510.github.io/NCSU Campus Jobs Review System 2.0/app/models.html

Link to website: https://ncsu-campus-jobs-review-system-2-0.onrender.com/

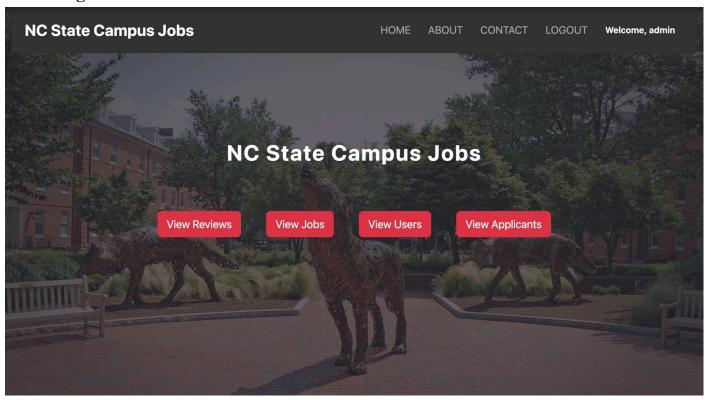
Link to Video:

https://drive.google.com/file/d/13QHYH2dspuiw1XZEtsmbRkKkH-YnE Em/view?usp=sharing

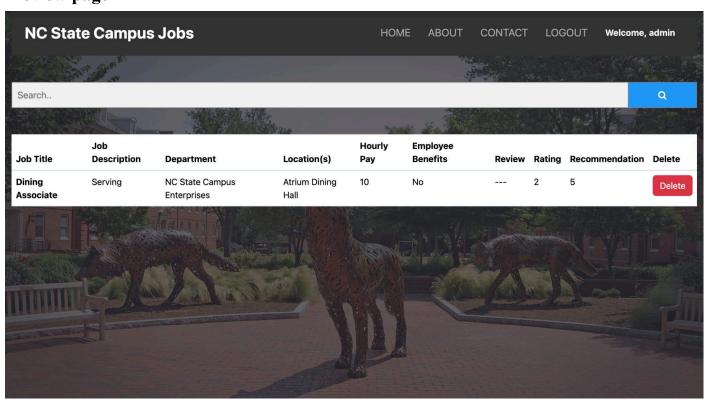


Screenshots of Enhanced Functionalities

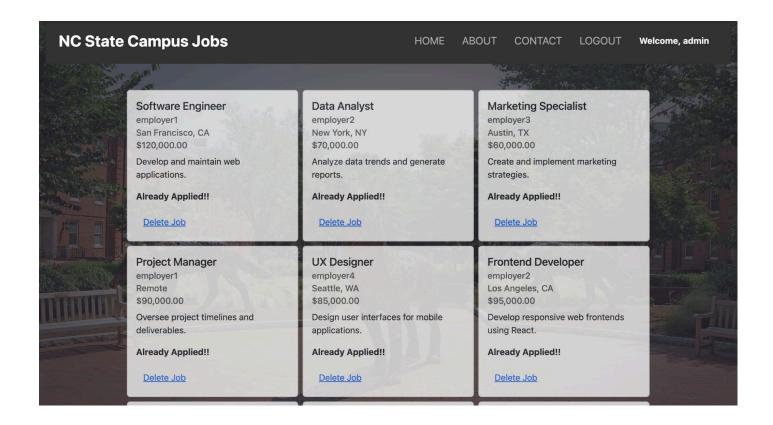
Home Page



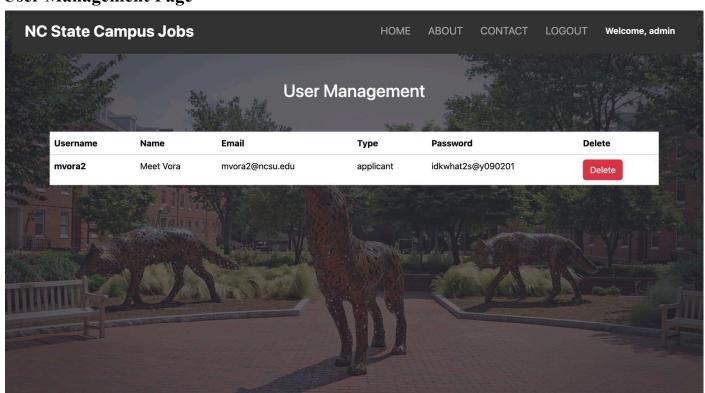
Review page

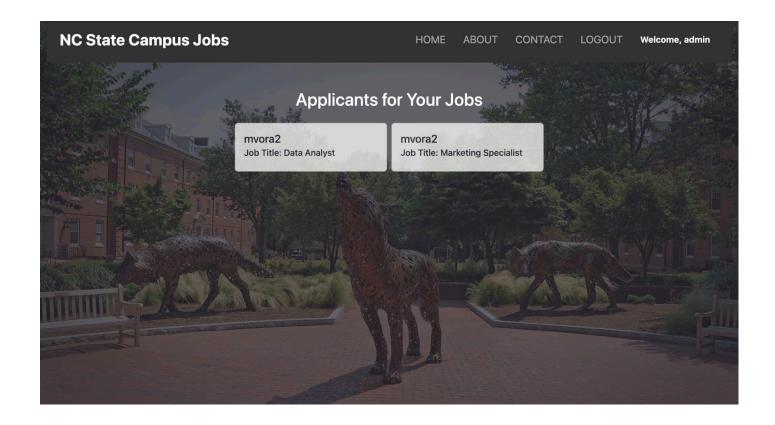


Jobs pages

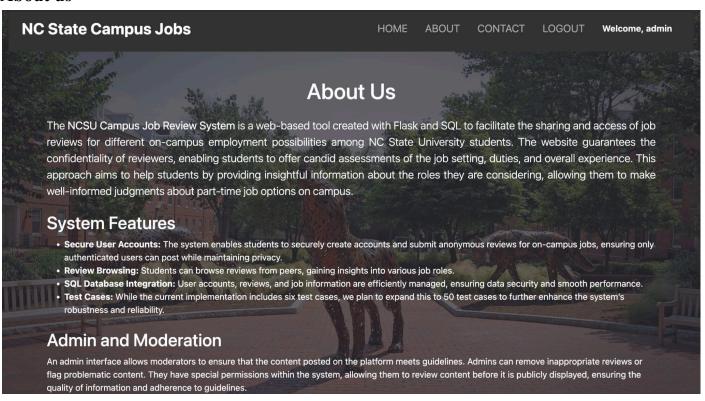


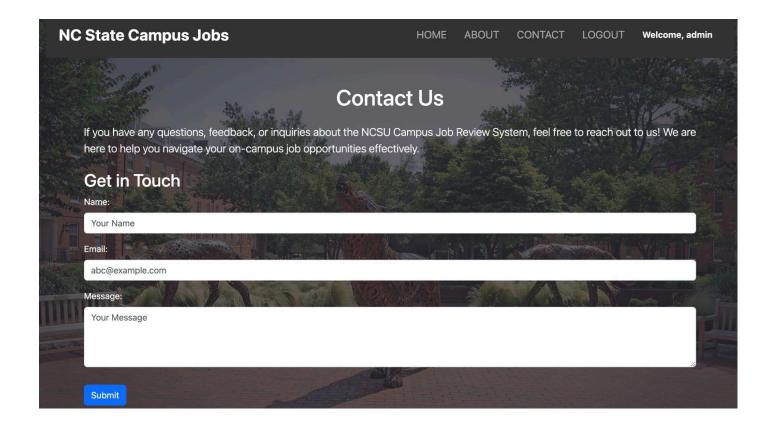
User Management Page





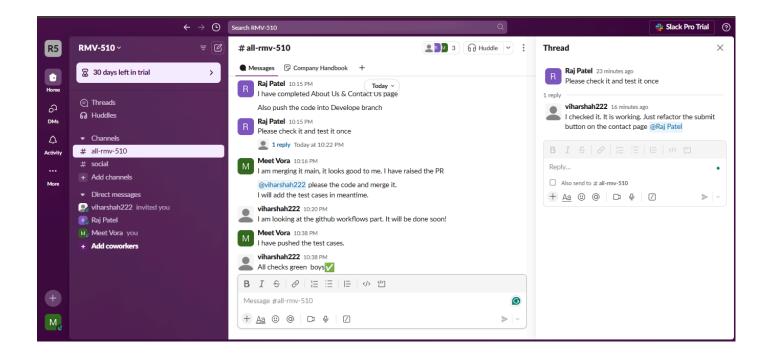
About us





code coverage snapshot

Name	Stmts	Miss	Cover
app/initpy	15	1	93%
app/config.py	5	0	100%
app/email_notification.py	22	5	77%
app/models.py	44	0	100%
app/routes.py	212	7	97%
crudapp.py	1	0	100%
tests/test_route_responses.py	693	0	100%
TOTAL	992	13	99%
Coverage XML written to file co	overage.	xm1	



SOFTWARE EVALUATION METRICS

Questions	SA
	Total Score = 163
What is the name of your software?	NCSU Campus
	Jobs Review
	System 2.0
Q1 - What your software does	
Does your website and documentation provide a clear, high-level overview of your software?	3
Does your website and documentation clearly describe the type of user who should use your software?	3
Do you publish case studies to show how your software has been used by yourself and others?	2
Q2 - Your project's and software's identity	
Is the name of your project/software unique?	2
Is your project/software name free from trademark violations?	3
Q3 - Availability of your software	
Is your software available as a package that can be deployed without building it?	3

Is your software available for free?	3
Is your source code publicly available to download, either as a downloadable	3
bundle or via access to a source code repository?	
Is your software hosted in an established, third-party repository likeGitHub	3
(https://github.com)	
Q4 - Your software's documentation	
Is your documentation clearly available on your website or within your software?	3
Does your documentation include a "quick start" guide, that provides a short	2
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	3
instructions on how to deploy and use your software?	
Do you provide a comprehensive guide to all your software's commands, functions	2
and options?	
If your software can be used as a library, package or service by other software, do	1
you provide comprehensive API documentation?	
Do you store your documentation under revision control with your source code?	2
Do you publish your release history e.g. release data, version numbers, key features	3
of each release etc. on your web site or in your documentation?	
Q5 - How you support your software	
Does your software describe how a user can get help with using your software?	3
Does your website and documentation describe what support, if any, you provide to	2
users and developers?	
Does your project have an e-mail address or forum that is solely for supporting	3
users?	
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	3
requests?	
Is your project's ticketing system publicly visible to your users, so they can view	3
bug reports and feature requests?	
Q6 - Your software's maintainability	
Q6 - Your software's maintainability Is your software's architecture and design modular?	3
	3 2
Is your software's architecture and design modular?	
Is your software's architecture and design modular?	
Is your software's architecture and design modular? Does your software use an accepted coding standard or convention?	
Is your software's architecture and design modular? Does your software use an accepted coding standard or convention? Q7 - Open standards and your software Does your software allow data to be imported and exported using open data	2

Q8 - Your software's portability	
Is your software cross-platform compatible?	3
Q9 - Your software and accessibility	
Does your software adhere to appropriate accessibility conventions or standards?	3
Does your documentation adhere to appropriate accessibility conventions or standards?	3
Q10 - How you manage your source code	
Is your source code stored in a repository under revision control?	2
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
Do you back-up your repository?	2
Q11 - Building and installing your software	
Do you provide publicly-available instructions for building your software from the source code?	3
Can you build, or package, your software using an automated tool?	2
Do you provide publicly-available instructions for deploying your software?	3
Does your documentation list all third-party dependencies?	3
Does your documentation list the version number for all third-party dependencies?	3
Does your software list the web address, and licences for all third-party dependencies and say whether the dependencies are mandatory or optional?	1
Can you download dependencies using a dependency management tool or package manager?	3
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
Q12 - How you test your software	
Do you have an automated test suite for your software?	3
Do you have a framework to periodically (e.g. nightly) run your tests on the latest version of the source code?	0
Do you use continuous integration, automatically running tests whenever changes are made to your source code?	3
Are your test results publicly visible?	1
Are all manually-run tests documented?	0
Q13 - How you engage with your community	

Does your project have resources (e.g. blog, Twitter, RSS feed, Facebook page,	0
wiki, mailing list) that are regularly updated with information about your software?	
Does your website state how many projects and users are associated with your	3
project?	
Do you provide success stories on your website?	0
Do you list your important partners and collaborators on your website?	3
Do you list your project's publications on your website or link to a resource where	3
these are available?	
Do you list third-party publications that refer to your software on your website or	3
link to a resource where these are available?	
Can users subscribe to notifications to changes to your source code repository?	3
If your software is developed as an open source project (and, 0t just a project	3
developing open source software), do you have a governance model?	
Q14 - How you manage contributions	
, ,	
Do you accept contributions (e.g. bug fixes, enhancements, documentation updates,	3
tutorials) from people who are part of your project?	
Do you have a contributions policy?	3
Is your contributions' policy publicly available?	3
Do contributors keep the copyright/IP of their contributions?	2
Q15 - Your software's copyright and licensing	
Q13 - Tour software's copyright and neensing	
Does your website and documentation clearly state the copyright owners of your	3
software and documentation?	
Does each of your source code files include a copyright statement?	3
Does your website and documentation clearly state the licence of your software?	3
Is your software released under an open source licence?	3
Is your software released under an OSI-approved open-source licence?	3
Does each of your source code files include a licence header?	0
Do you have a recommended citation for your software?	0
Q16 - Your plans for the future	
Does your website or documentation include a project roadmap (a list of project and	1
development milestones for the next 3, 6 and 12 months)?	
Does your website or documentation describe how your project is funded, and the	0
period over which funding is guaranteed?	
Do you make timely annuncements of the deprecation of components, APIs, etc.?	2
Do you make uniory aimaneoments of the deprecation of components, At 15, etc.!	

RUBRICS	SA Total = 90
Workload is spread over the whole team (one team member is often Xtimes more productive than the others but nevertheless, here is a track record that everyone is contributing a lot)	3
Number of commits: by different people	3
Issues reports: there are many	0
Issues are being closed	3
Docs: doco generated, format not ugly	3
Docs: what: point descriptions of each class/function (in isolation)	2
Docs: how: for common use cases X,Y,Z mini-tutorials showing worked examples on how to do X,Y,Z	2
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
Use of version control tools	3
Test cases exist	3
Test cases are routinely executed	3
Issues are discussed before they are closed	3
Chat channel: exists	3
Test cases: a large proportion of the issues related to handling failing cases.	2
Evidence that the whole team is using the same tools: everyone can get to all tools and files	3
Evidence that the whole team is using the same tools (e.g. config files in the repo, updated by lots of different people)	3
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	2
The file .gitignre lists what files should be be saved to the repo. See	3
The file INSTALL.md lists how to install the code	3
The file LICENSE.md lists rules of usage for this repo	3
The file CODE-OF-CONDUCT.md lists rules of behavior for this repo; e.g. see example	3
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	<u>3</u>
The file README.md contains all the following	3
Video	3
DOI badge: exists. To get a Digitial Object Indentifier, regiser the project at Zenodo.	3
Badges showing your style checkers	3
Badges showing your code formatters.	3
Badges showing your syntax checkers.	3
Badges showing your code coverage tools	3
Badges showing any other automated analysis tools	1