WOLFJOBS

GROUP 50 - UDDHARSH VASILI, SAI VINEEL REDDY MARREDDY, CHANDRAKANT KONETI

NC STATE UNIVERSITY

ABOUT WOLFJOBS

Discover exciting career opportunities with WolfJobs, the premier job portal designed specifically for students and managers at NC State University. Whether you're a student looking for on-campus part-time roles or a manager recruiting for campus positions, WolfJobs streamlines the entire process, offering a personalized and efficient job search experience tailored to your needs.
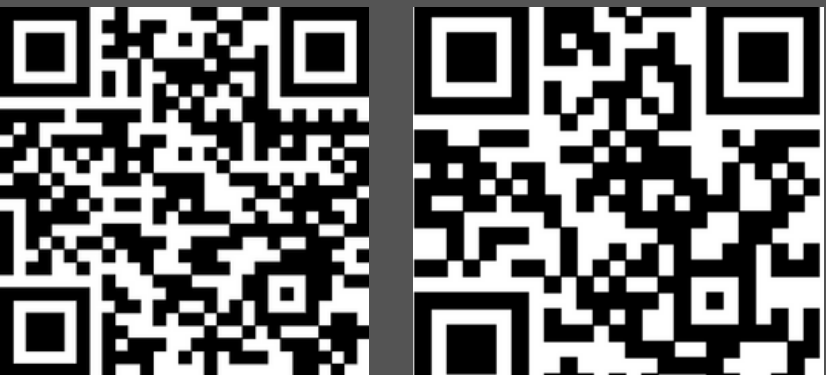
Key-Functionalities before update
Students could easily log in or sign up to apply for on-campus jobs, track the status of their applications, and access associated questionnaires. Meanwhile, managers had login/signup options, allowing them to add, edit, and close job listings. They could also review applications and accept candidates, streamlining the hiring process within the campus community.

Seamless Application Tracking
Keep track of your job applications with ease using our intuitive, customizable dashboard, ensuring you never miss an opportunity

Tailored Job Matches
WolfJobs provides personalized job recommendations that match your skills, academic background, and career goals, making it easy for students and managers at NCSU to find the perfect opportunities.

Advanced Search Filters
Easily refine your search based on department, job type, or experience level, ensuring the right job is just a click away.
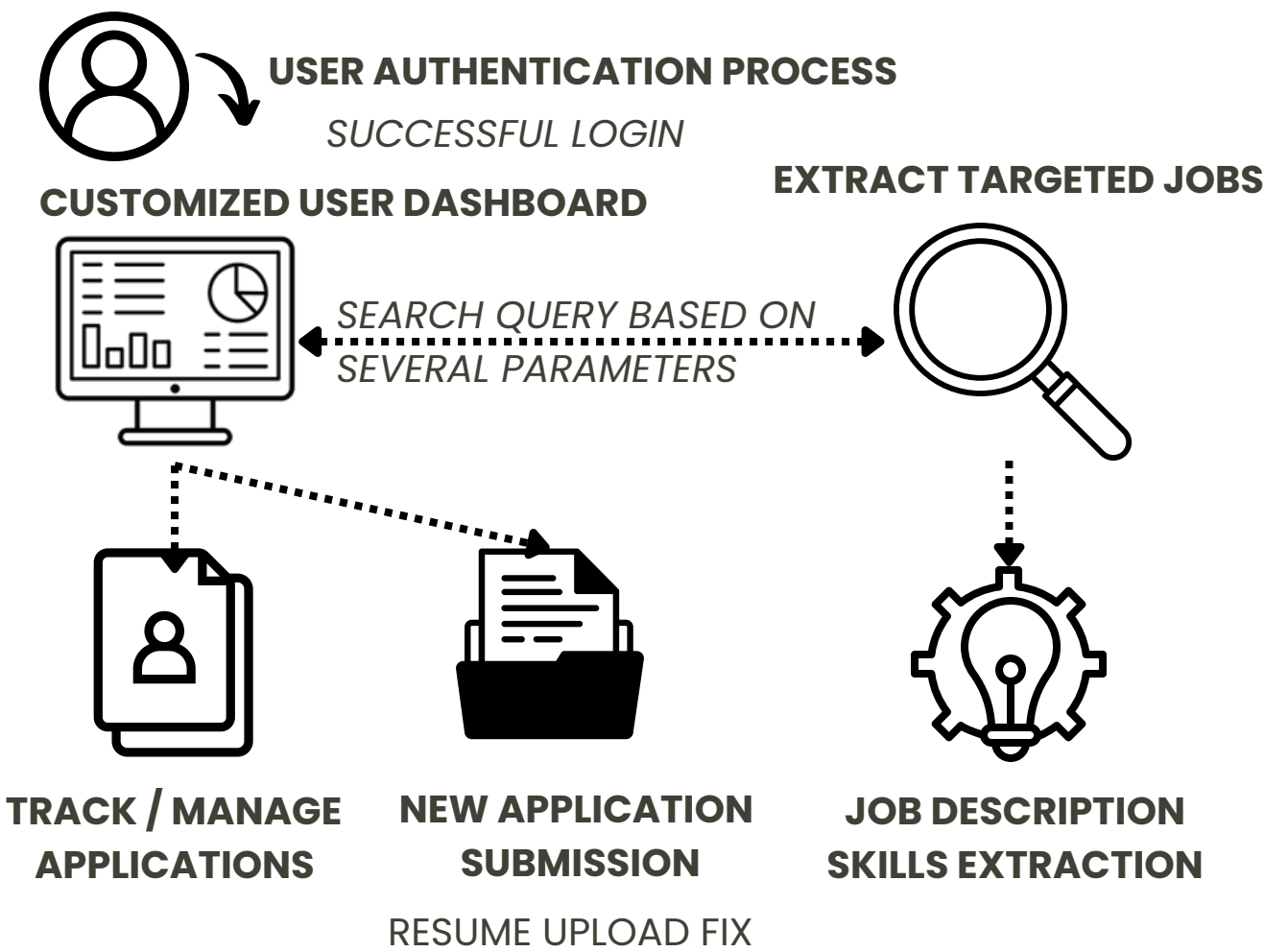
TOTAL TEST CASES WRITTEN: 78

REPO LINK   DEMO LINK

FUTURE UPDATES DEMO

WORKFLOW

USER AUTHENTICATION PROCESS
SUCCESSFUL LOGIN

CUSTOMIZED USER DASHBOARD   **EXTRACT TARGETED JOBS**

SEARCH QUERY BASED ON SEVERAL PARAMETERS

TRACK / MANAGE APPLICATIONS   **NEW APPLICATION SUBMISSION**   **JOB DESCRIPTION SKILLS EXTRACTION**

RESUME UPLOAD FIX

WHAT'S RECENTLY ADDED?

ENHANCED USER EXPERIENCE AND SECURITY
- Improved account protection with password hashing for secure database storage and enhanced authentication using JWT tokens.
- Introduced a "Forgot Password" feature that allows users to securely reset their passwords, ensuring easy recovery if needed.
- Integrated an email service that automatically notifies users when a password reset is requested, provided their account exists.
- Addressed critical issues from the previous version that allowed login through direct links, ensuring proper user verification for access.

COMPREHENSIVE DATA VALIDATION
- Implemented input validations to improve data accuracy and application reliability in the frontend.
- Established robust backend validations to reinforce database security, preventing unauthorized access and safeguarding against potential vulnerabilities.
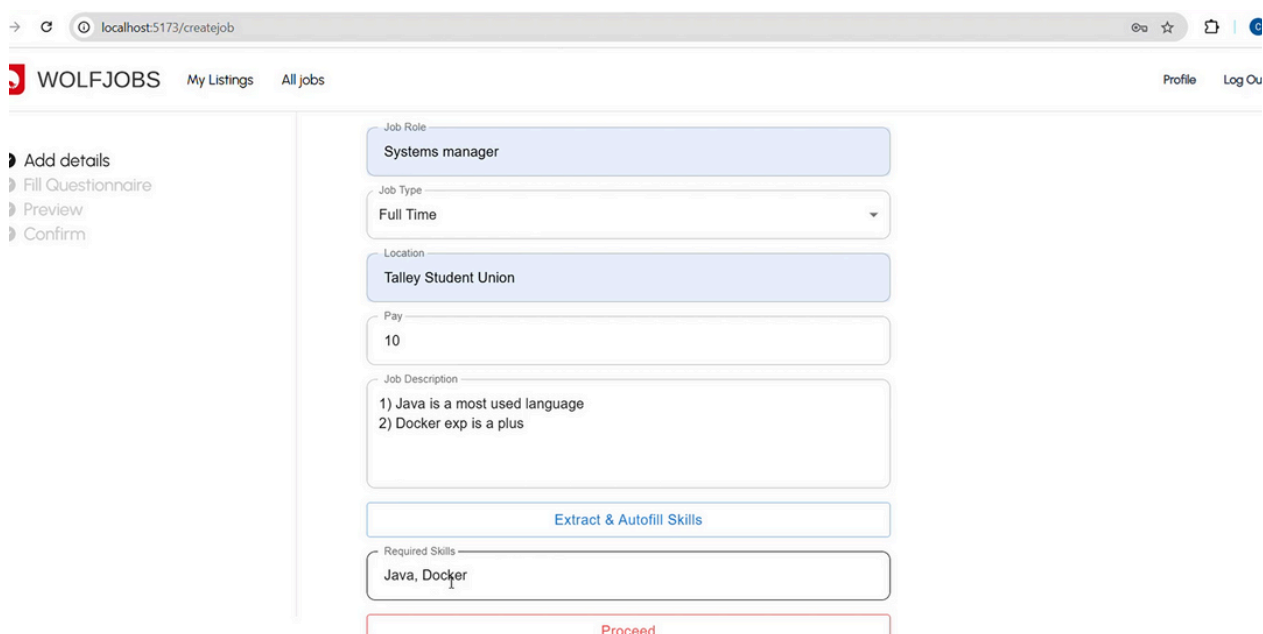
TAKE ADVANTAGE OF INNOVATIVE FEATURES:
RESUME UPLOAD, SKILL EXTRACTION, AND ERROR HANDLING
- Simplified the job creation process by adding a filter button for managers to easily select relevant skills, minimizing manual input.
- Automated extraction of skills from job descriptions, presenting them with comma separation for improved readability and user convenience.
- Fixed a critical issue affecting resume uploads, enabling smooth upload and viewing for all users.
- Improved error handling with clear messages and added role-based controls to ensure only authorized users can post jobs.

UI/UX ENHANCEMENTS
- Implemented dynamic content changes on hover, providing interactive feedback and a more engaging user experience. Added visual effects for mouse interactions to enhance navigation fluidity.

WORKING SCREENSHOT

WOLFJOBS   My Listings   All jobs   Profile   Log Ou

Add details
Fill Questionnaire
Preview
Confirm

Job Role
Systems manager

Job Type
Full Time

Location
Talley Student Union

Pay
10

Job Description
1) Java is a most used language
2) Docker exp is a plus

Extract & Autofill Skills

Required Skills
Java, Docker

Proceed

FUTURE ENHANCEMENTS

ENHANCED SECURITY WITH 2FA/MFA
Enhance account security by implementing 2FA/MFA for a safer experience.

SMART SALARY-BASED JOB FILTERING
Filter jobs by salary to match roles with your desired pay.
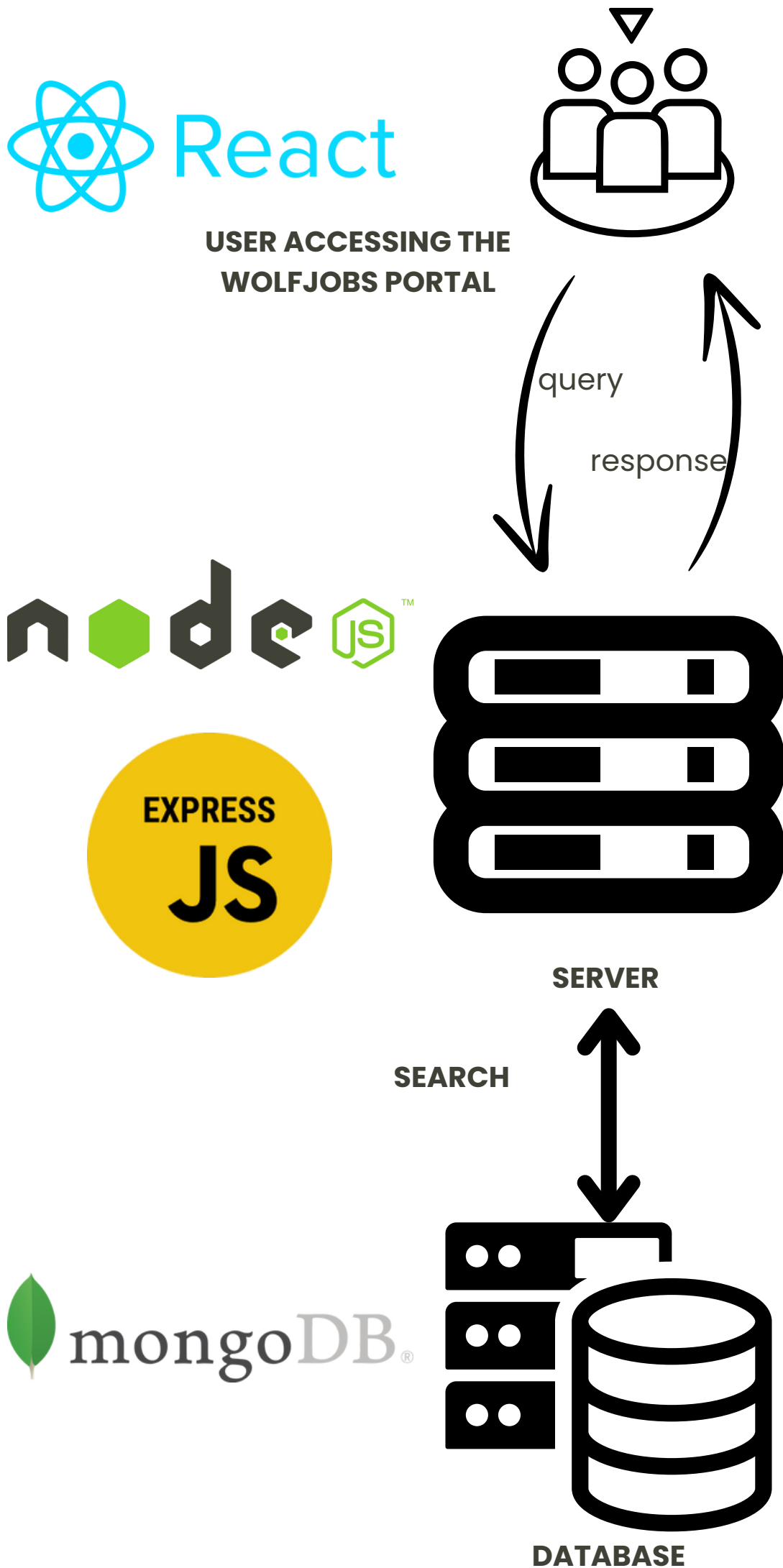
JOB RECOMMENDATIONS VIA WEB SCRAPING
Incorporate web scraping tools to suggest relevant job opportunities tailored to applicants profiles.

INTERVIEW VIDEO SUBMISSION
Managers can request video submissions from applicants via the portal.

MATCHING BASED ON RESUME
Applicants will be able to parse their resume and WolfJobs will extract key skills from the resume and compare it with required job skills to give candidates job matching status.

React

USER ACCESSING THE WOLFJOBS PORTAL

query   response

node JS

EXPRESS JS

SERVER

SEARCH

mongoDB

DATABASE

Software Engineering
Project 2

Member 1- Sai Vineel Reddy Marreddy,
Member 2- Chandrakanth Koneti,
Member 3- Uddharsh Vasili

Github link: https://github.com/CSC510-SE-Uddharsh-Vineel-Chandrakant/CSC510-WolfJobs-G50/tree/New_CSC510-G50-WolfJobs

The total sum for Group score including the sustainability form data is 300.

Notes	Group Score	Evidence
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	https://github.com/CSC510-SE-Uddharsh-Vineel-Chandrakant/CSC510-WolfJobs-G50/pulse
Number of commits	3	https://github.com/CSC510-SE-Uddharsh-Vineel-Chandrakant/CSC510-WolfJobs-G50/pulse
Number of commits: by different people	3	https://github.com/CSC510-SE-Uddharsh-Vineel-Chandrakant/CSC510-WolfJobs-G50/pulse While the number of commits differs among

		members, each has contributed equally to the project's development.
Issues reports: there are **many**	3	Issues opened-6 https://github.com/CSC510-SE-Uddharsh-Vineel-Chandrakant/CSC510-WolfJobs-G50/issues
Issues are being closed	3	Issues closed- 5 https://github.com/CSC510-SE-Uddharsh-Vineel-Chandrakant/CSC510-WolfJobs-G50/issues
Docs: doco generated, format not ugly	3	https://github.com/CSC510-SE-Uddharsh-Vineel-Chandrakant/CSC510-WolfJobs-G50/tree/New_CSC510-G50-WolfJobs/frontend/docs

Docs: what: point descriptions of each class/function (in isolation)	2	https://github.com/CSC510-SE-Uddharsh-Vineel-Chandrakant/CSC510-WolfJobs-G50/tree/New_CSC510-G50-WolfJobs/frontend/docs
Docs: how: for common use cases X,Y,Z mini-tutorials showing worked examples on how to do X,Y,Z	3	https://github.com/CSC510-SE-Uddharsh-Vineel-Chandrakant/CSC510-WolfJobs-G50/blob/New_CSC510-G50-WolfJobs/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	https://github.com/CSC510-SE-Uddharsh-Vineel-Chandrakant/CSC510-WolfJobs-G50/blob/New_CSC510-G50-WolfJobs/README.md
Docs: short video, animated, hosted on your repo. That convinces people why they want to work on your code.	3	https://github.com/CSC510-SE-Uddharsh-Vineel-Chandrakant/CSC510-WolfJobs-G50/blob/New_CSC510-G50-WolfJobs/README.md

Use of version control tools	3	https://github.com/CSC510-SE-Uddharsh-Vineel-Chandrakant/CSC510-WolfJobs-G50/blob/New_CSC510-G50-WolfJobs/README.md
Test cases exist	3	https://github.com/CSC510-SE-Uddharsh-Vineel-Chandrakant/CSC510-WolfJobs-G50/tree/New_CSC510-G50-WolfJobs/frontend/tests
Test cases are routinely executed	3	https://github.com/CSC510-SE-Uddharsh-Vineel-Chandrakant/CSC510-WolfJobs-G50/tree/New_CSC510-G50-WolfJobs/.github/workflows
Issues are discussed before they are closed	3	https://github.com/CSC510-SE-Uddharsh-Vineel-Chandrakant/CSC510-WolfJobs-G50/issues/3

		Most of the issues were discussed in person
Chat channel: exists	3	https://github.com/CSC510-SE-Uddharsh-Vineel-Chandrakant/CSC510-WolfJobs-G50/issues/3
Test cases: a large proportion of the issues related to handling failing cases.	1	https://github.com/CSC510-SE-Uddharsh-Vineel-Chandrakant/CSC510-WolfJobs-G50/issues?q=is%3Aissue+is%3Aclosed
Evidence that the whole team is using the same tools: everyone can get to all tools and files	3	https://github.com/CSC510-SE-Uddharsh-Vineel-Chandrakant/CSC510-WolfJobs-G50/blob/New_CSC510-G50-WolfJobs/frontend/package.json Visual Studio,Git

Evidence that the whole team is using the same tools (e.g. config files in the repo, updated by lots of different people)	3	https://github.com/CSC510-SE-Uddharsh-Vineel-Chandrakant/CSC510-WolfJobs-G50/blob/New_CSC510-G50-WolfJobs/.prettierrc.json sendgrid
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	https://github.com/CSC510-SE-Uddharsh-Vineel-Chandrakant/CSC510-WolfJobs-G50/blob/New_CSC510-G50-WolfJobs/.prettierrc.json
Evidence that the members of the team are working across multiple places in the code base	3	https://github.com/CSC510-SE-Uddharsh-Vineel-Chandrakant/CSC510-WolfJobs-G50/commits/New_CSC510-G50-WolfJobs/
Short release cycles	1	
The file .gitignore lists what files should not be saved to the repo.	3	https://github.com/CSC510-SE-Uddharsh-Vineel-Chandrakant/CSC510-WolfJobs-G50/blob/New_CSC510-G50-WolfJobs/.gitignore

The file INSTALL.md lists how to install the code	3	https://github.com/CSC510-SE-Uddharsh-Vineel-Chandrakant/CSC510-WolfJobs-G50/blob/New_CSC510-G50-WolfJobs/INSTALL.md
The file LICENSE.md lists rules of usage for this repo	3	https://github.com/CSC510-SE-Uddharsh-Vineel-Chandrakant/CSC510-WolfJobs-G50/blob/New_CSC510-G50-WolfJobs/LICENSE.md
The file CODE-OF-CONDUCT.md lists rules of behavior for this repo; e.g. see example	3	https://github.com/CSC510-SE-Uddharsh-Vineel-Chandrakant/CSC510-WolfJobs-G50/blob/New_CSC510-G50-WolfJobs/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		https://github.com/CSC510-SE-Uddharsh-Vineel-Chandrakant/CSC510-WolfJobs-G50/blob/New_CSC510-G50-WolfJobs/CONTRIBUTING.md
The file README.md contains all the following	3		https://github.com/CSC510-SE-Uddharsh-Vineel-Chandrakant/CSC510-WolfJobs-G50/blob/New_CSC510-G50-WolfJobs/README.md
Video	3		https://github.com/CSC510-SE-Uddharsh-Vineel-Chandrakant/CSC510-WolfJobs-G50/blob/New_CSC510-G50-WolfJobs/README.md
DOI badge: exists. To get a Digitial Object Indentifier, regiser the project at Zenodo.	3		https://github.com/CSC510-SE-Uddharsh-Vineel-Chandrakant/CSC510-WolfJobs-G50/blob/New_CSC510-G50-WolfJobs/README.md

DOI badges look like this:		
Badges showing your style checkers	3	https://github.com/CSC510-SE-Uddharsh-Vineel-Chandrakant/CSC510-WolfJobs-G50/blob/New_CSC510-G50-WolfJobs/README.md
Badges showing your code formatters.	3	https://github.com/CSC510-SE-Uddharsh-Vineel-Chandrakant/CSC510-WolfJobs-G50/blob/New_CSC510-G50-WolfJobs/README.md
Badges showing your syntax checkers.	3	https://github.com/CSC510-SE-Uddharsh-Vineel-Chandrakant/CSC510-WolfJobs-G50/blob/New_CSC510-G50-WolfJobs/README.md
Badges showing your code coverage tools	3	https://github.com/CSC510-SE-Uddharsh-Vineel-

		Chandrakant/CSC510-WolfJobs-G50/blob/New_CSC510-G50-WolfJobs/README.md
Badges showing any other Other automated analysis tools	3	https://github.com/CSC510-SE-Uddharsh-Vineel-Chandrakant/CSC510-WolfJobs-G50/blob/New_CSC510-G50-WolfJobs/README.md

Sustainability Form:- (203)

Points	Group Score	Evidence
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?	1	
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?	2	
Is your software available for free?	3	
Is your source code publicly	3	

available to download, either as a downloadable bundle or via access to a source code repository?		
Is your software hosted in an established, third-party repository likeGitHub (https://github.com), BitBucket (https://bitbucket.org),LaunchPad (https://launchpad.net) orSourceForge (https://sourceforge.net)?	3	
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?	3	
If you provide more extensive documentation, does this provide clear, step-by-step instructions on how to deploy and use your software?	3	
Do you provide a comprehensive guide to all your software's commands, functions and options?	2	
Do you provide troubleshooting information that describes the symptoms and step-by-step solutions for problems and error messages?	1	
If your software can be used as a library, package or service by other software, do you provide comprehensive API documentation?	3	
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 of each release etc. on your web site or in your documentation?	2	
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 users and developers?	3	
Does your project have an e-mail address or forum that is solely for supporting users?	3	
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?	1	
Is your project's ticketing system publicly visible to your users, so they can view bug reports and feature requests?	0	
Is your software's architecture and design modular?	3	
Does your software use an accepted coding standard or convention?	3	
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	2	
Does your software allow communications using open communications protocols? e.g. HTTP, FTP, XMPP, SOAP over HTTP, or domain-specific ones	3	
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?	3	
Does your software adhere to appropriate accessibility conventions or standards?	3	
Does your documentation	3	

adhere to appropriate accessibility conventions or standards?		
Is your source code stored in a repository under revision control?	3	
Is each source code release a snapshot of the repository?	2	
Are releases tagged in the repository?	2	
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?	3	
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?	3	
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?	3	
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	

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?	3	
Do you use continuous integration, automatically running tests whenever changes are made to your source code?	3	
Are your test results publicly visible?	3	
Are all manually-run tests documented?	3	
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?	1	
Does your website state how many projects and users are associated with your project?	3	
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 these are available?	0	
Do you list third-party publications that refer to your software on your website or link to a resource where these are available?	1	
Can users subscribe to notifications to changes to your source code repository?	1	
If your software is developed as an open source project (and, not just a project developing open source software), do you have a	3	

governance model?		
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	
Is your contributions' policy publicly available?	3	
Do contributors keep the copyright/IP of their contributions?	0	
Does your website and documentation clearly state the copyright owners of your software and documentation?	2	
Does each of your source code files include a copyright statement?	2	
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?	1	
Do you have a recommended citation for your software?	0	
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	
Does your website or documentation describe how your project is funded, and the period over which funding is guaranteed?	0	
Do you make timely announcements of the deprecation of components, APIs, etc.?	3	