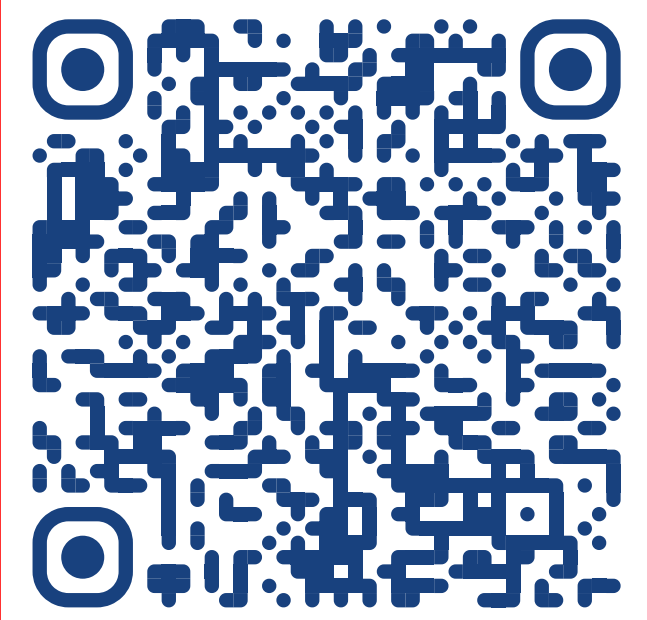# CINEFLIX
Watch movies that match your taste!

WHAT DO WE DO?

Discover your next favorite movie with our personalized recommendation system!
We analyze your preferences and suggest films tailored just for you. From classics to the latest releases, let us help you find the perfect movie to watch next!

NEW FEATURES

1. **New React Frontend:** An all new React based Frontend for the entire site including new registration, login, home, and account pages!
2. **Poster Image Fixes**: Introduced fixes for the frequent issues of broken poster images and mismatching posters.
3. **Optimized Backend:** Optimized Backend to utilize only 1 API (The Movie Database)
4. **Cast & Director Information:** User can now view detailed cast and director information for each movie, enhancing the browsing information.
5. **Improved Recommendations:** Cleaned CSV data files to produce better recommendations and results on the frontend.

FUTURE ENHANCEMENTS

1. Create page to only display movies of each director, actor, or genre when the name is clicked on.
2. Enhance the user profile page.
3. Remove search functionality and suggest recommendations on home page based off user likes and dislikes.
4. Phase 4 tested an expansion of the movies.csv and ratings.csv file from 9k movies and 100k ratings to 87k movies and 32M ratings, but did not include because it would be a great opportunity for a future phase to pick up these files from MovieLens and figure out the best sampling method to incorporate the new data into the existing code.
5. Reduce recommendations response time.

TECH STACK

TEST CASES

This project features 60 new test cases compared to that of just 19 test case in previous iteration.

CINEFLIX

Search Movies

GET RECOMMENDATIONS

Selected Movies:
- Toy Story
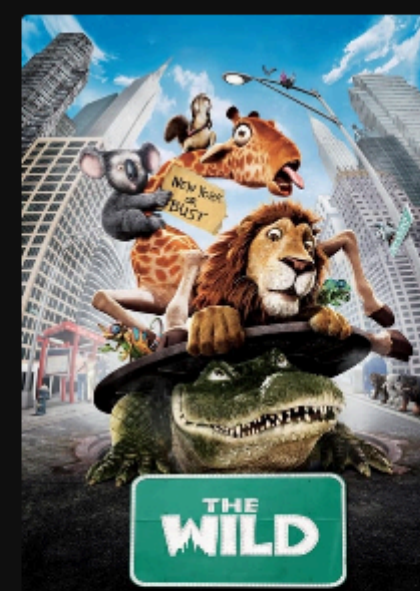- Toy Story 2

Recommended Movies:

Toy Story 3 (2010)
Rating: 7.8/10
Director: Lee Unkrich
Cast: Tom Hanks, Tim Allen, Joan Cusack
Genres: Animation, Family, Comedy

WATCH TRAILER

The Adventures of Rocky and Bullwinkle (2000)
Rating: 4.1/10
Director: Des McAnuff
Cast: June Foray, Keith Scott, Rene Russo
Genres: Family, Adventure, Animation, Comedy, Fantasy

WATCH TRAILER

The Wild (2006)
Rating: 5.5/10
Director: Steve Williams
Cast: Kiefer Sutherland, Jim Belushi, Eddie Izzard
Genres: Family, Animation

WATCH TRAILER

Robots (2005)
Rating: 6.5/10
Director: Chris Wedge
Cast: Ewan McGregor, Robin Williams, Halle Berry
Genres: Animation, Comedy, Family, Science Fiction

WATCH TRAILER

GROUP - 56. Team Member: Ajay Chundi, Karan Joshi, Ruthwik Hosadurga Madhusudhana

Names: Ajay Chundi, Karan Joshi, Ruthwik Hosadurga Madhusudhana

Group: #56

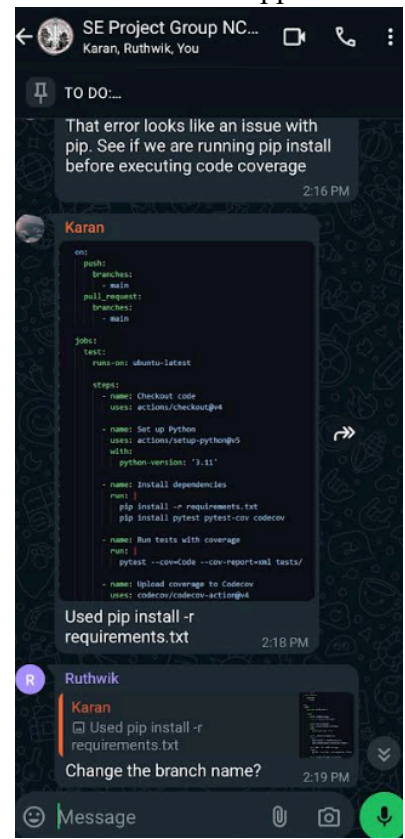https://github.com/Joshi-Karan/MovieRecommender_Fall24/tree/stableF24

Note: stableF24 branch is the main branch for this phase

Rubric

Sum: 279

Notes	Score (0-3)	Evidence
Workload is spread over the whole team (one team member is often X times more productive than the others…	3	We started work on this well ahead of time, and utilized numerous different branches before finally deciding to make the 'stableF24' branch to make our main one.
but nevertheless, here is a track record that everyone is contributing a lot)	3	https://github.com/Joshi-Karan/MovieRecommender_Fall24/commits/stableF24/
Number of commits	3	400+ commits
Number of commits: by different people	3	
Issues reports: there are many	3	https://github.com/Joshi-Karan/MovieRecommender_Fall24/issues
Issues are being closed	3	https://github.com/Joshi-Karan/MovieRecommender_Fall24/issues?q=is%3Aissue+is%3Aclosed
Docs: doco generated, format not ugly	3	https://github.com/Joshi-Karan/MovieRecommender_Fall24/blob/stableF24/README.md https://github.com/Joshi-Karan/MovieRecommender_Fall2

		4/wiki/Documentation
Docs: what: point descriptions of each class/function (in isolation)	3	
Docs: how: for common use cases X,Y,Z mini-tutorials showing worked examples on how to do X,Y,Z	3	
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	TA said on discord 1 video to show new functionality and convince peers is good, so that is what was done.
Use of version control tools	3	
Test cases exist	3	https://github.com/Joshi-Karan/MovieRecommender_Fall24/tree/stableF24/test
Test cases are routinely executed	3	https://github.com/Joshi-Karan/MovieRecommender_Fall24/tree/stableF24/.github/workflows

Names: Ajay Chundi, Karan Joshi, Ruthwik Hosadurga Madhusudhana
Group: #56

Issues are discussed before they are closed	3	https://github.com/Joshi-Karan/MovieRecommender_Fall24/issues/6
Chat channel: exists	3	On Whatsapp
Test cases: a large proportion of the issues related to handling failing cases.	3	https://github.com/Joshi-Karan/MovieRecommender_Fall24/tree/stableF24/test
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	3	

(e.g. config files in the repo, updated by lots of different people)		
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	Multiple branches created and parallel work done https://github.com/Joshi-Karan/MovieRecommender_Fall24/branches
Short release cycles	3	In Github, sidebar
The file .gitignore lists what files should not be saved to the repo. See [examples]i(https://github.com/github/gitignore)	3	See .gitignore
The file INSTALL.md lists how to install the code	3	https://github.com/Joshi-Karan/MovieRecommender_Fall24/tree/stableF24?tab=readme-ov-file#usage
The file LICENSE.md lists rules of usage for this repo	3	
The file CODE-OF-CONDUCT.md lists rules of behavior for	3	

this repo; e.g. see example		
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	
The file README.md contains all the following	3	
Video	3	TA said on discord 1 video to show new functionality and convince peers is good, so that is what was done.
DOI badge: exists. To get a Digitial Object Indentifier, regiser the project at Zenodo. DOI badges look like this:	3	
Badges showing your style checkers	3	On Github readme
Badges showing your code formatters.	3	
Badges showing your syntax checkers.	3	
Badges showing your code coverage tools	3	

Badges showing any other Other automated analysis tools	3	

Online Sustainability Evaluation

Question 1.1: Does your website and documentation provide a clear, high-level overview of your software?	3	https://github.com/Joshi-Karan/MovieRecommender_Fall24/tree/stableF24?tab=readme-ov-file#working-
Question 1.2: Does your website and documentation clearly describe the type of user who should use your software?	2	
Question 1.3: Do you publish case studies to show how your software has been used by yourself and others?	3	
Question 2.1: Is the name of your project/software unique?	2	
Question 2.2: Is your project/software name free from trademark violations?	3	https://trademarks.justia.com/854/79/cineflix-85479958.html
Question 3.1: Is your software available as a package that can be deployed without building it?	2	It does not need to be built and can be run directly by running commands on terminal.
Question 3.2: Is your software available for free?	3	Software is open source
Question 3.3: Is your source code publicly available to download, either as a downloadable bundle or via access to a source code repository?	3	Source available on github

Question 3.4: Is your software hosted in an established, third-party repository likeGitHub (https://github.com), BitBucket (https://bitbucket.org),Launch Pad (https://launchpad.net) orSourceForge (https://sourceforge.net)?	3	
Question 4.1: Is your documentation clearly available on your website or within your software?	3	Refer Readme.md
Question 4.2: 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	Refer Usage section of Readme.md
Question 4.3: If you provide more extensive documentation, does this provide clear, step-by-step instructions on how to deploy and use your software?	3	Refer Readme.md
Question 4.4: Do you provide a comprehensive guide to all your software's commands, functions and options?	3	
Question 4.5: Do you provide troubleshooting information that describes the symptoms and step-by-step solutions for problems and error messages?	2	
Question 4.6: If your software can be used as a library, package or service by other software, do you provide comprehensive API	2	Attached in README

documentation?		
Question 4.7: Do you store your documentation under revision control with your source code?	3	https://github.com/Joshi-Karan/MovieRecommender_Fall24/blob/stableF24/README.md
Question 4.8: 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	https://github.com/Joshi-Karan/MovieRecommender_Fall24/releases
Question 5.1: Does your software describe how a user can get help with using your software?	3	
Question 5.2: Does your website and documentation describe what support, if any, you provide to users and developers?	3	Provided email for support
Question 5.3: Does your project have an e-mail address or forum that is solely for supporting users?	3	helpcineflix@gmail.com
Question 5.4: Are e-mails to your support e-mail address received by more than one person?	3	
Question 5.5: Does your project have a ticketing system to manage bug reports and feature requests?	3	https://github.com/Joshi-Karan/MovieRecommender_Fall24/issues
Question 5.6: Is your project's ticketing system publicly visible to your users, so they can view bug reports and feature requests?	3	https://github.com/Joshi-Karan/MovieRecommender_Fall24/issues

Question 6.1: Is your software's architecture and design modular?	3	
Question 6.2: Does your software use an accepted coding standard or convention?	3	Follows common react programming standard
Question 7.1: 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	JSON file with information containing test result is exported.
Question 7.2: Does your software allow communications using open communications protocols? * e.g. HTTP, FTP, XMPP, SOAP over HTTP, or domain-specific ones	N/A	
Question 8.1: 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	
Question 9.1: Does your software adhere to appropriate accessibility conventions or standards?	2	Provides semantic HTML, adds alternate text to image
Question 9.2: Does your documentation adhere to appropriate accessibility	2	

conventions or standards?		
Question 10.1: Is your source code stored in a repository under revision control?	3	
Question 10.2: Is each source code release a snapshot of the repository?	3	https://github.com/Joshi-Karan/MovieRecommender_Fall24/releases/tag/10%2F31
Question 10.3: Are releases tagged in the repository?	3	https://github.com/Joshi-Karan/MovieRecommender_Fall24/tags
Question 10.4: Is there a branch of the repository that is always stable? (i.e. tests always pass, code always builds successfully)	3	Refer StableF24 branch
Question 10.5: Do you back-up your repository?	3	Zenodo badge
Question 11.1: Do you provide publicly-available instructions for building your software from the source code?	3	Refer Readme.md
Question 11.2: Can you build, or package, your software using an automated tool? * e.g. Make (https://www.gnu.org/software/make/), ANT (http://ant.apache.org/), Maven (https://maven.apache.org/), CMake (https://cmake.org/),	2	

Python setuptools (https://pypi.python.org/pypi/setuptools), or R package tools (https://cran.r-project.org/doc/manuals/r-devel/R-exts.html)		
Question 11.3: Do you provide publicly-available instructions for deploying your software?	3	Refer Readme.md
Question 11.4: Does your documentation list all third-party dependencies?	3	https://github.com/Joshi-Karan/MovieRecommender_Fall24/blob/stableF24/requirements.txt
Question 11.5: Does your documentation list the version number for all third-party dependencies?	3	https://github.com/Joshi-Karan/MovieRecommender_Fall24/blob/stableF24/requirements.txt
Question 11.6: Does your software list the web address, and licences for all third-party dependencies and say whether the dependencies are mandatory or optional?	2	
Question 11.7: 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/),	3	Can be downloaded by pip

Ruby gems (https://rubygems.org), or R PackRat (https://rstudio.github.io/packrat/)		
Question 11.8: 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	https://github.com/Joshi-Karan/MovieRecommender_Fall24/tree/stableF24/test
Question 12.1: Do you have an automated test suite for your software?	3	
Question 12.2: Do you have a framework to periodically (e.g. nightly) run your tests on the latest version of the source code?	3	https://github.com/Joshi-Karan/MovieRecommender_Fall24/actions
Question 12.3: Do you use continuous integration, automatically running tests whenever changes are made to your source code?	3	https://github.com/Joshi-Karan/MovieRecommender_Fall24/actions/workflows/test.yml
Question 12.4: Are your test results publicly visible?	3	https://github.com/Joshi-Karan/MovieRecommender_Fall24/actions/workflows/test.yml
Question 12.5: Are all manually-run tests documented?	Not Applicable	
Question 13.1: Does your project have resources (e.g. blog, Twitter, RSS feed,	3	Wiki and email for contact

Facebook page, wiki, mailing list) that are regularly updated with information about your software?		
Question 13.2: Does your website state how many projects and users are associated with your project?	0	
Question 13.3: Do you provide success stories on your website?	0	
Question 13.4: Do you list your important partners and collaborators on your website?	3	
Question 13.5: Do you list your project's publications on your website or link to a resource where these are available?	1	
Question 13.6: Do you list third-party publications that refer to your software on your website or link to a resource where these are available?	0	
Question 13.7: Can users subscribe to notifications to changes to your source code repository?	3	See github repo notifications button.
Question 13.8: If your software is developed as an open source project (and, not just a project developing open source software), do you have	3	Do-ocracy model followed

a governance model?		
Question 14.1: Do you accept contributions (e.g. bug fixes, enhancements, documentation updates, tutorials) from people who are not part of your project?	3	
Question 14.2: Do you have a contributions policy?	3	https://github.com/Joshi-Karan/MovieRecommender_Fall24/blob/stableF24/CONTRIBUTING.md
Question 14.3: Is your contributions' policy publicly available?	3	https://github.com/Joshi-Karan/MovieRecommender_Fall24/blob/stableF24/CONTRIBUTING.md
Question 14.4: Do contributors keep the copyright/IP of their contributions?	3	
Question 15.1: Does your website and documentation clearly state the copyright owners of your software and documentation?	3	https://github.com/Joshi-Karan/MovieRecommender_Fall24/blob/stableF24/LICENSE.md
Question 15.2: Does each of your source code files include a copyright statement?	3	
Question 15.3: Does your website and documentation clearly state the license of your software?	2	https://github.com/Joshi-Karan/MovieRecommender_Fall24/blob/stableF24/LICENSE.md

Question 15.4: Is your software released under an open source licence?	3	https://github.com/Joshi-Karan/MovieRecommender_Fall24/blob/stableF24/LICENSE.md
Question 15.5: Is your software released under an OSI-approved open-source licence?	3	https://github.com/Joshi-Karan/MovieRecommender_Fall24/blob/stableF24/LICENSE.md
Question 15.6: Does each of your source code files include a licence header?	0	
Question 15.7: Do you have a recommended citation for your software?	3	Refer Readme.md
Question 16.1: Does your website or documentation include a project roadmap (a list of project and development milestones for the next 3, 6 and 12 months)?	1	Refer Readme.md
Question 16.2: Does your website or documentation describe how your project is funded, and the period over which funding is guaranteed?	0	
Question 16.3: Do you make timely announcements of the deprecation of components, APIs, etc.?	0	