



Spoiled Tomatillos Final Presentation

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System Functionality

Functionality

User:

- Registration
- Account confirmation via email
- Password Recovery
- Login/Logout
- Remember Me Button
- User Profile
- Edit User Profile Fields
- User Search
- Friending a User

The screenshot shows a web browser window with the title 'Spoiled Tomatillos'. The page has a dark blue header bar with a search bar on the right containing the text 'Search movies, users...' and a magnifying glass icon. The main content area has an orange background. The title 'Edit Profile' is displayed in a large, bold, white font. Below the title, there are three white input fields. The first field is labeled 'Username' and contains the text 'e2ronj'. The second field is labeled 'About Me' and contains the text 'Loves fantasy movies and adventure movies.'. The third field is labeled 'Hobbies' and contains the text 'Ice skating and reading books.'. A red error message '[This field is required.]' is visible above the second field. At the bottom of the form, there is a white 'Submit' button.

Functionality

Movie

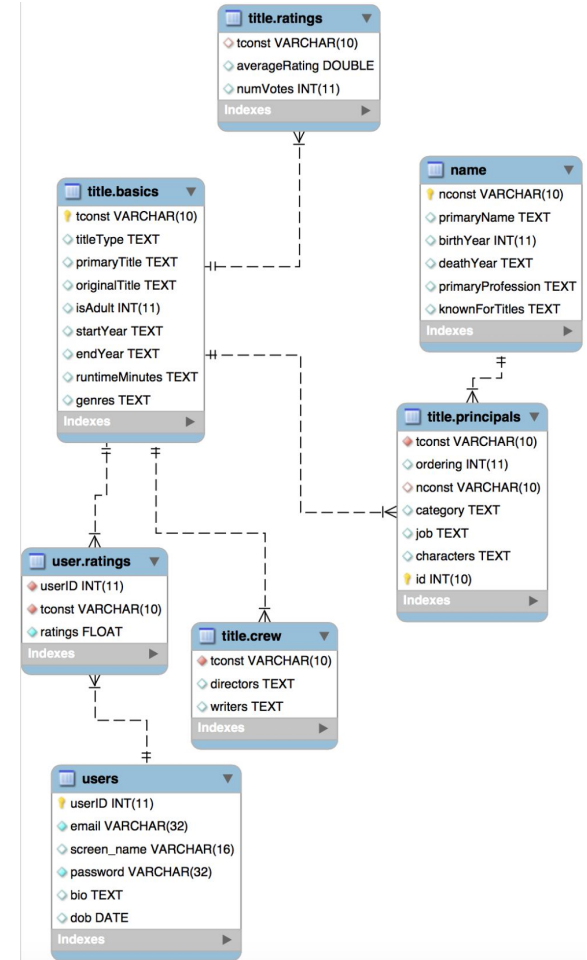
- Movie Search
- Filter out X-rated movies
- Movie Page
- Internal Movie Ratings
- IMDb Movie Ratings
- Favorite Movie Function
- Top Rated Movie Function
- Recommended Movie Function
- 'Surprise Me' Movie Function



Functionality

Database:

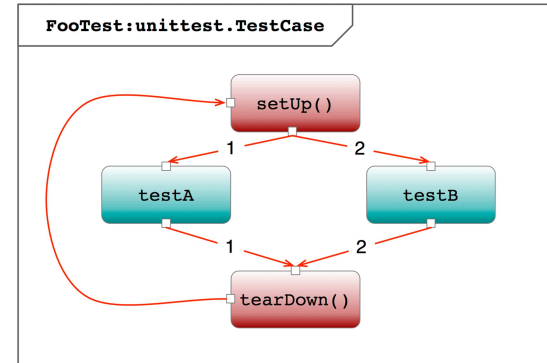
- 7 table schema with Relations through foreign keys
- Normalized data for flat structure
- Unique identification for rows
- Stored procedures for generating recommendations
- SALTS and honeywords



Functionality

Testing:

- 100% statement coverage
- Over 85% branch coverage
- Generation of coverage reports
- Developed test and build environment utilizing docker and virtual environments
- Automated testing pipeline using Jenkins
- Full SonarQube integration





Goals



High-Level Goal: The main features we expect to achieve is a social recommendation system for movies that bridges the chasm between services like Netflix or Amazon to Facebook.

Goals Achieved:

- Learned how to use Flask and Python
- Experienced the Software Development Life Cycle
- Learned how to use source control and do pull reviews
- Learned how to communicate as a team, through channels like Slack and our daily standup
- Learned how to utilize JIRA tasks
- Learned more about web development

Goals to Work On:

- Link website to social media services like Facebook
- Link website to content providers like Netflix or Amazon
- Add further functionality to website
- Improve on UI/UX design of website



Usefulness to Client

- Friending functionality allows the platform to be more social compared to other competitors
- Allows users to discover new movies via 'Surprise Me' function
- 500k movies on platform for users to search through
- Data is normalized so database is more efficient and uses less storage
- Privacy Focused:
 - Don't farm your data
 - Data is encrypted
 - Utilize SALT's and Honeywords

Evidence of Work

- Completed all sprint reviews
- All tasks in JIRA backlog
- Website hosted on Amazon Web Services
- All code located in GitHub
- Smart commits

Spoiled Tomatillos

Register

Username

Email Address

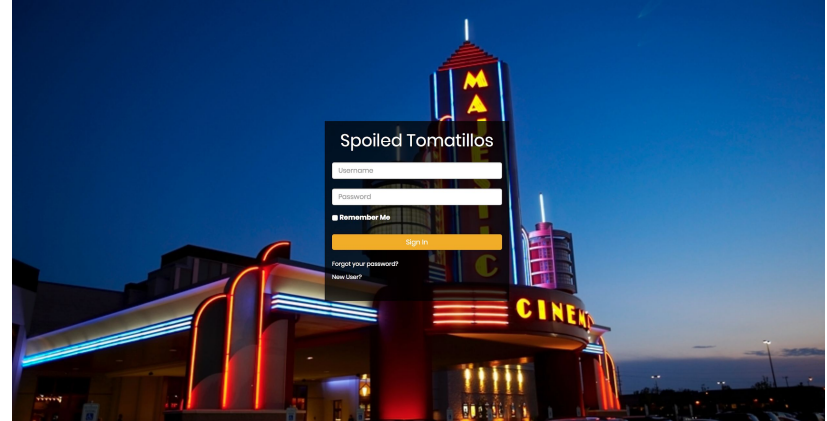
New Password

Confirm Password

I acknowledge that I have read and fully understand the terms and conditions of the site

Register

Login



Spoiled Tomatillos

Search movies, users...

Star Wars: Episode V - The Empire Strikes Back



Favorites: 0

After the rebels are brutally overpowered by the Empire on the ice planet Hoth, Luke Skywalker begins Jedi training with Yoda, while his friends are pursued by Darth Vader.



Average Spoiled Tomatillos rating: 0

IMDB Rating: 8.8 out of 10 (961426 votes)

Director:

Irvin Kershner

Writer:

Irvin Kershner

Actors:

Mark Hamill

Harrison Ford

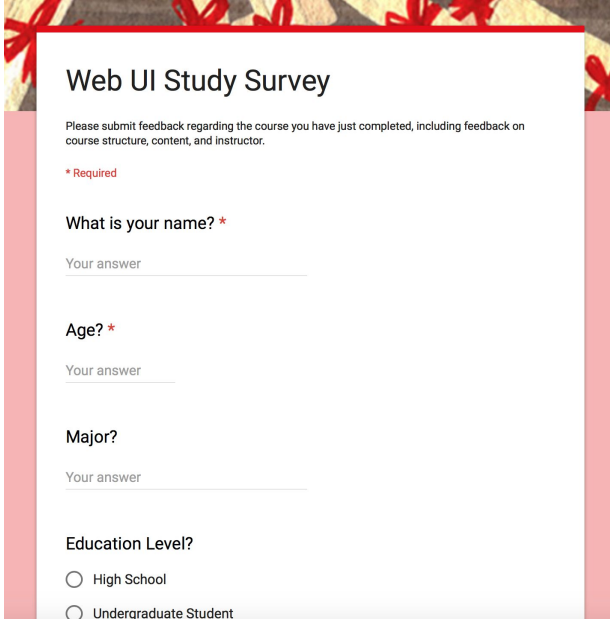
Billy Dee Williams

Job Quality



Meeting Sprint Expectations

- Conducted usability study to develop best product
- Wrote up progress report and use cases to map out product development
- Met all the requirements of each sprint
- Achieved stretch goals for each sprint
- Achieved 100% statement and over 85% branch coverage
- Produced project report to map our work progression



Web UI Study Survey

Please submit feedback regarding the course you have just completed, including feedback on course structure, content, and instructor.

*** Required**

What is your name? *

Your answer

Age? *

Your answer

Major?

Your answer

Education Level?

☐ High School

☐ Undergraduate Student

Performance Over Time

- Daily communication over Facebook messenger and Slack
- Usage of Slack increased over time
 - Added GitHub integration to Slack
 - Added daily standup integration to Slack
- Increased number of tasks in JIRA backlog
- Utilized smart commits
- 319 commits in our Github repository

The screenshot shows the GitHub interface for the repository `CS4500 / team-53-spring18`. The page displays a list of commits made on April 12, 2018. Each commit entry includes a user icon, a commit message, the user's name, the time since the commit, and a commit hash with a link to view the commit details.

Commit Message	User	Time	Commit Hash
Merge pull request #89 from CS4500/finaltest	bepoe	committed on GitHub Enterprise 3 days ago	b0cf6923
coverage	abelahin	committed 3 days ago	b3293a5
Merge pull request #88 from CS4500/finaltest	bepoe	committed on GitHub Enterprise 3 days ago	612f1bc
Merge pull request #87 from CS4500/progress_report	bepoe	committed on GitHub Enterprise 3 days ago	fa0829b
coverage	abelahin	committed 3 days ago	d27f318
adding progress report	weshei	committed 3 days ago	ed986c1
Merge pull request #86 from CS4500/fix_movie_UI	bepoe	committed on GitHub Enterprise 3 days ago	f6d6388
Updated movie page UI #TEAM53-158 #close	dichen7321	committed 3 days ago	3873180
Merge pull request #85 from CS4500/friendsfeatures	bepoe	committed on GitHub Enterprise 3 days ago	f947295
TEAM53-157 removed change password from other users, added hobbie file...	mamorgan	committed 3 days ago	5ac169e
Merge pull request #84 from CS4500/Homepage	mamorgan	committed on GitHub Enterprise 3 days ago	1ca8eff

Process and Teamwork

Teamwork and solutions

- Initially split up responsibilities for different aspects of the project: Database work, Jenkins integration, front/backend development etc. based on individual interests.
- Utilized a separate Document repository for secret keys, passwords, etc.
- The team was less familiar with Python than Java, but we overcame this by reading documentation, finding new libraries, and helping each other with peer programming techniques.



Team Processes

- Implemented daily stand ups to communicate our progress.
- Required Pull Request reviews and jenkins integration before pushing changes to master
- Weekly to bi-weekly in-person meetups to plan future development and features.
- Automated continuous build integration, deployments and testing with Jenkins and Docker

Jan 14, 2018 – Apr 14, 2018

Contributions to master, excluding merge commits

Contributions: Commits



Technology Transfer



Recommendations for the Future

- Integrate social media platforms
 - Social login
 - Social shares
 - Utilizing profiles and user data





Recommendations for the Future

- Integrate video content providers
 - Redirect to streaming content
 - Utilize user account information



Recommendations for the Future

- Improve UI/UX design
- Improved infrastructure, scalability and tooling support
- Support for various devices e.g. mobile and TV



git



ANSIBLE



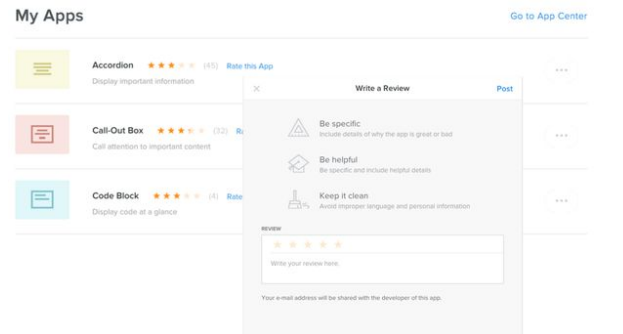
docker

Nagios

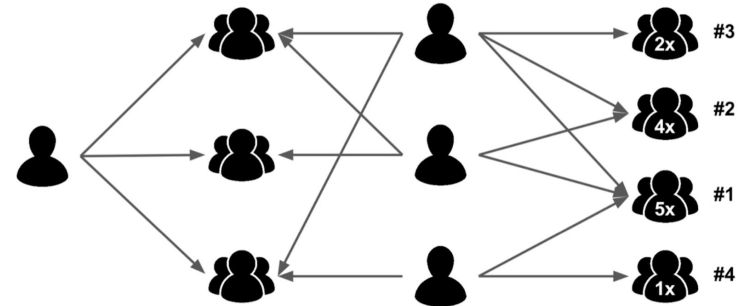


Recommendations for the Future

- Improve recommendations using User-to-User Collaborative Filtering
- Implement user groups feature
- Comments and reviews



User-based collaborative filtering algorithm



Closing Statements

Can this project be handed over to a client?

Yes!!!!

