PROJECT REPORT

of

Find Your Movie

Submitted in the partial fulfillment of Bachelors of Technology in Computer Science and Engineering

Submitted by

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Introduction

Find Your Movie is an online platform for the users which prefer looking for ratings at different movie rating websites before making a decision about what movie to watch. Here the user has the convenience of selecting their favorite genre, language, region and year and filter out the top movies according to their selections. This saves time for the users of going to different web sites and searching for different lists in order to get the results while making a choice while finding a movie.

Objective

Find Your Movie eases all the hassles a user has to go through to find a movie to watch. They no longer have to go to all the websites and perform multiple searches to find their perfect movie to watch. It gives the ability to choose from a list of genres and years of which the user wants to see the movie. Based on the selections our web app will be providing visual data sets of two leading movie rating websites IMDB and Rotten Tomatoes side by side.

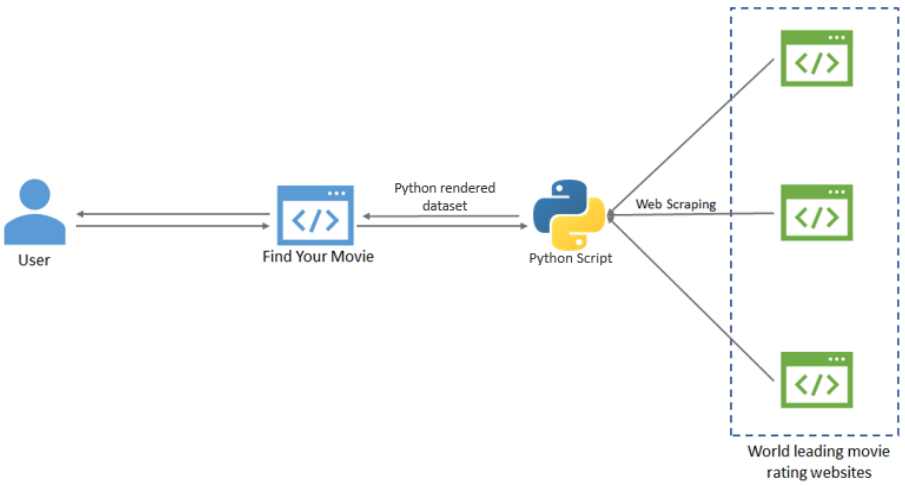
Using our web app the user doesn't have to go to different websites to compare a movie's rating and just simply select the desired options and get the results then and there.

The movie ratings have been properly integrated with the list data and a centralized email interface for querying the database is created.

Scope

Find Your Movie web app takes input from the user giving them drop downs to apply filters and get the results according to the preference of the user. The aim is to give users the ease of getting lists from different world leading movie rating websites and bring them to one place. We achieve this using a sophisticated web scraping function which constantly collects data from these web sites and maintains our database to give users the lists according to the selections the user enters.

The aim of this web application is to give users the ease of finding their movie according to their preference and also being able to compare the ratings given by different movie rating websites along with a very simple and responsive UI.



Future Scope

This web app is scalable as using our web scraping techniques we can add more movie ratings from different websites and also add the view where the user can also find out at what platform is the movie available.

Tools and Technologies

Advanced technologies like selenium and beautifulsoup are used for the web scraping process along with python in the backend. These modules are used to make a dataset by reading the tags from the website and extracting data that lies under or between those tags.

- **BeautifulSoup:** Beautiful Soup is a Python library for getting data out of HTML, XML, and other markup languages. Beautiful Soup helps you pull particular content from a webpage, remove the HTML markup, and save the information. It is a tool for web scraping that helps you clean up and parse the documents you have pulled down from the web.

  We are using Beautiful Soup library in Python that will help with, from isolating titles and links, to extracting all of the text from the html tags, to altering the HTML within the document that is being worked with.

Further connectivity of data can be done using database servers like MySQL or SQL servers which helps the website filter data from the backend code. The dropdown menus that are going to be provided in the website will not show output until these tools are used.

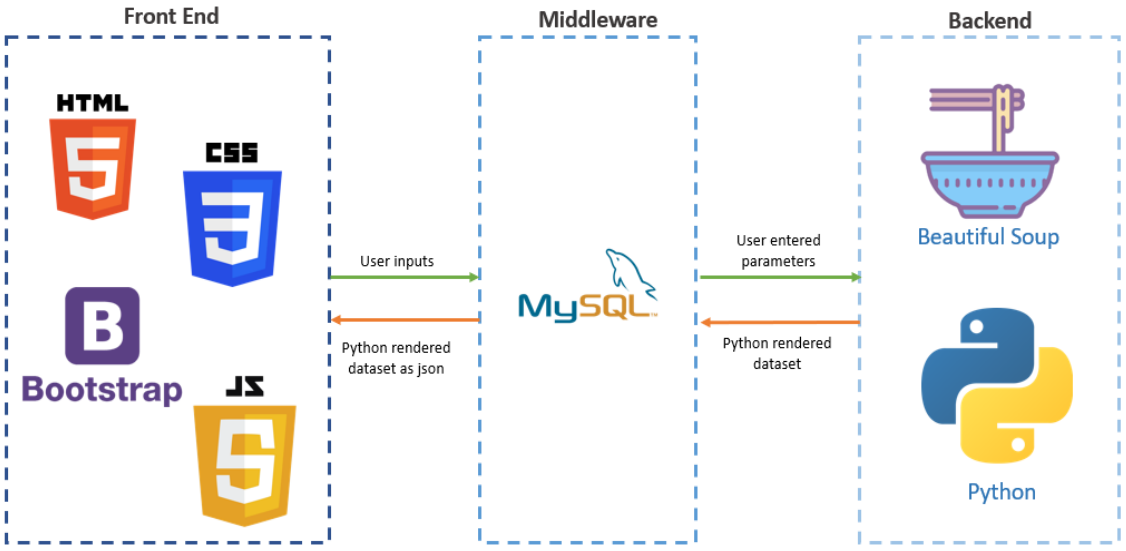
- **MySQL:** MySQL is an open-source relational database management system (RDBMS). A relational database organizes data into one or more data tables in which data types may be related to each other; these relations help structure the data. SQL is a language programmers use to create, modify and extract data from the relational database, as well as control user access to the database.

  Once the data connectivity is done applications like HTML5, CSS 3, Javascript and Bootstrap 4 are used for the frontend.

- **HTML 5:** HTML5 is a markup language used for structuring and presenting content on the World Wide Web and primarily all our front end code will be written and structured in HTML 5 along with CSS and Java Scripting.
- **CSS:** CSS is designed to enable the separation of presentation and content, including layout, colors, and fonts. This separation improves content accessibility, provide more flexibility and control in the specification of presentation characteristics, enable multiple web pages to share formatting by specifying the relevant CSS in a separate .css file which reduces complexity and repetition in the structural content as well as enabling the .css file to be cached to improve the page load speed between the pages that share the file and its formatting.
- **Javascript:** JavaScript allows users to interact with web pages. There are almost no limits to the things you can do with JavaScript on a web page. Developers can use various JavaScript frameworks for developing and building web apps. Beyond

websites and apps, developers can also use JavaScript to build simple web servers and develop the back-end infrastructure using Node.js. We are leveraging javascript to make our web app interactive with the users.

- **Bootstrap:** Bootstrap is a free and open-source CSS framework directed at responsive, mobile-first front-end web development. It contains CSS- and (optionally) JavaScript-based design templates for typography, forms, buttons, navigation, and other interface components.We will be using the Bootstrap framework on top of our css to provide a more standardized aesthetics to the our UI using the predefined classes already present in the bootstrap framework.



Time frame required for various stages of project implementation

Sr. No.	Phases	Time Duration
1.	Software Requirement Specification	0.5 Days
2.	System Design	0.5 Week
3.	Coding and Implementation	2.5 Weeks
4.	Deployment and Testing	1.5 Weeks
Total estimated time		5 weeks(25 working days)

USP - UNIQUE SELLING POINT

- Users can search for movies by filtering the genre as well as year at the same time.
- No other website like IMDB or rotten tomatoes allow the user to use these features simultaneously.