VIDEO RENTAL SERVICE

Group 47

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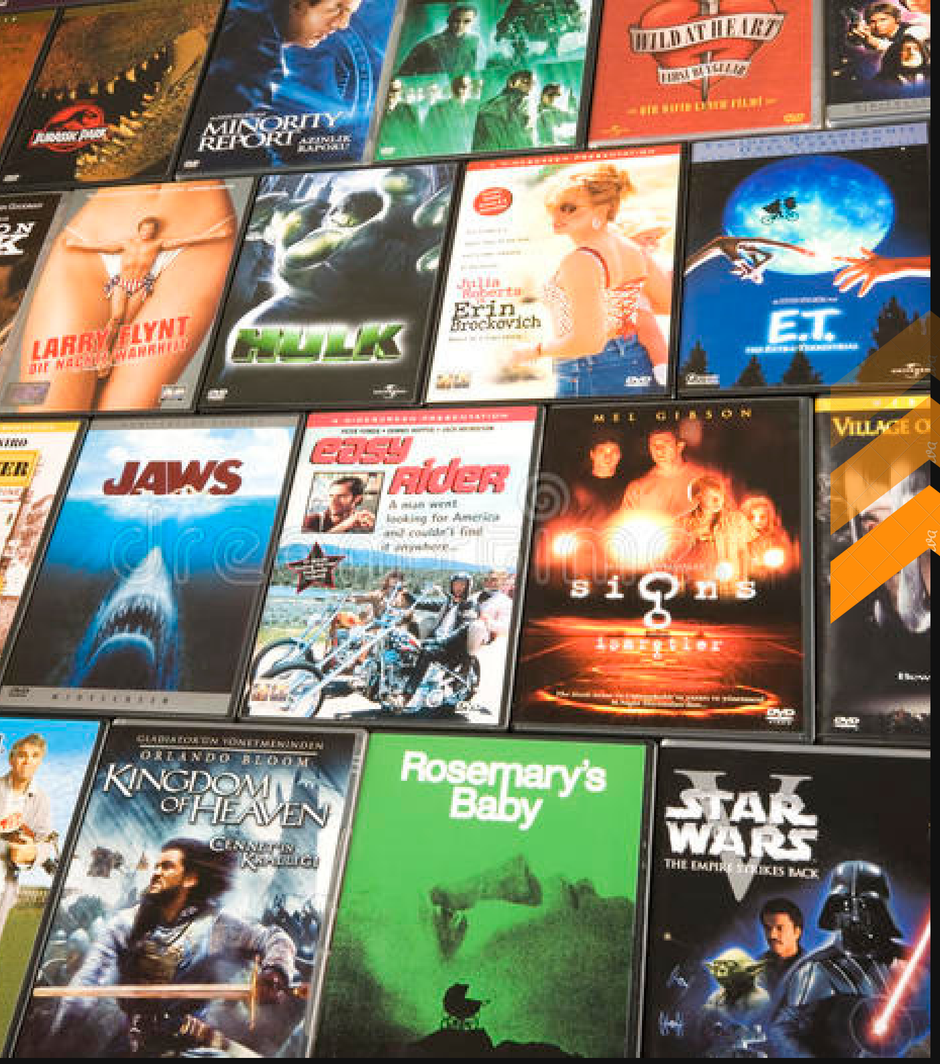
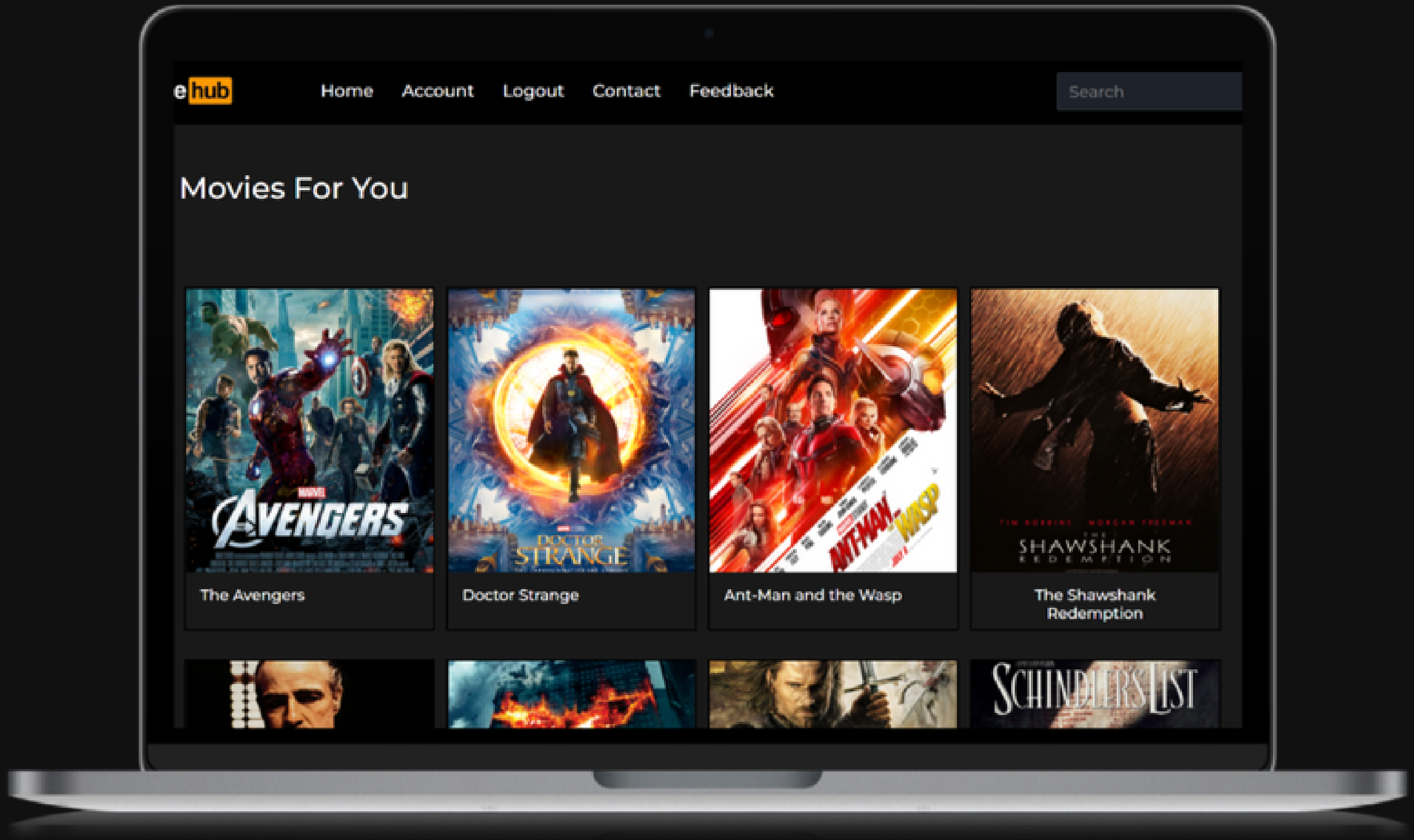


PROBLEM STATEMENT

- Design a Video Rental System which helps people in buying the movies they like.
- The Customers can sign up and can surf through various movies and buy the movie they like.
- Customers can add movies to the cart and pay for them
- The customer can also look at their buy history in their account.
- The manager and the staff manages the inventory of the store.

Our Solution: Moviehub



SALIENT FEATURES (CUSTOMERS)

SEARCH MOVIES

The customers can search for their favourite movies by their names

EDIT PROFILE

The customers can edit their profile details like name, email and address.

BUY MOVIES

The customers can add the movies to Cart and then buy them. The customer profile also lists their previous order

FEEDBACK

The customers can also provide feedback or put in requests which are displayed in the Manager profile

Moviehub

BASIC SOFTWARE INFORMATION

Programming Language

Python

Highly Programmer-friendly

Offers many frameworks and a wide array of supporting libraries

Large community ensures ease of debugging

Frontend

HTML, CSS, Javascript

HTML creates skeleton structure of webpage

CSS provides style and formatiting

Javascript makes the website interactive for the user

Backend

Flask

We chose flask as it is a very lightweight and flexible framework, great for building web sites in a short span of time

It also has a HTML templating features, making our work easier.

SOME CHALLENGING USE CASES

RENTING MOVIES

This was a fairly challenging task as the user, after renting the movie would need to return the movie after a certain time and would be penalised accordingly if failed to do so.

ADDING MOVIES

The Manager has an feature to add movies to the database by entering its IMDB url. We hit an api that returns the movie data in JSON format.

FEEDBACK VIEW

The Manager gets the feedback that any user on the platform has in his account and can take measures to improve accordingly.

DIFFICULTIES FACED

NO PRIOR EXPERIENCE

This was a first project of web development for all our members of the team.

CREATIVE DIFFERENCES

Often, the team clashed on the direction the project and the functionalities should take which took a lot of time to be resolved

MAINTAINING CODEBASE

Although all of our members were aware of Github, we still faced a lot of difficulties in maintaining a uniform codebase across all the team members.

TIME CONSTRAINT

Due to the strict nature of the deadlines coupled with other involvements, it became difficult to implement all the features.

SCOPE FOR IMPROVEMENT

INVENTORY MANAGEMENT

Automatically update the store database when a movie is rented / bought.

USER AUTHENTICATION

Email-based authentication to improve security

STAFF VERIFICATION

Any new staff / manager account would have to be verified by the existing manager(s).

MACHINE LEARNING

A recommender system could be built based on previous transaction and search history of the customer.

Moviehub

OUR AMAZING TEAM

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thank you