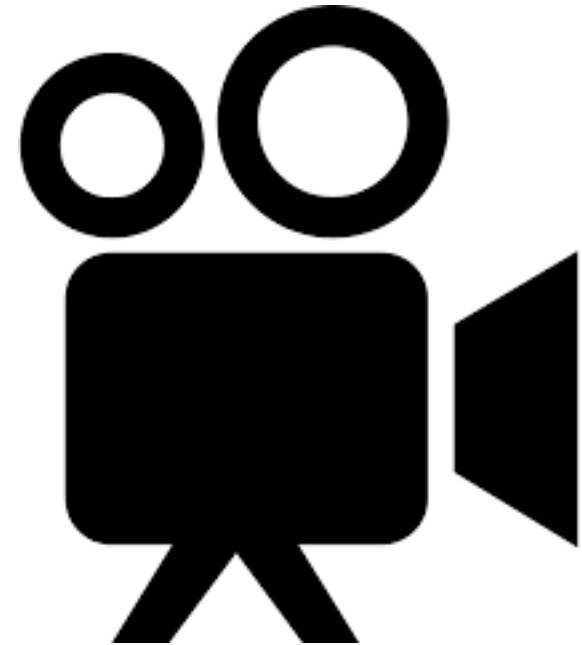
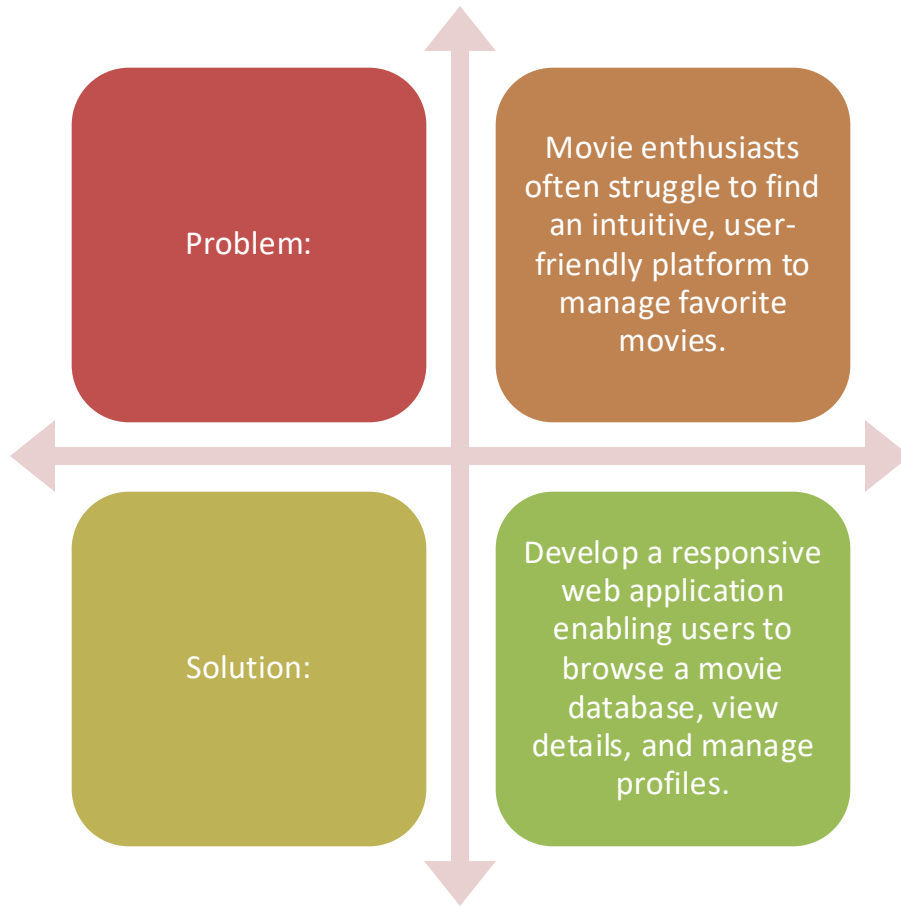


MyFlix Case Study

Shareif Jones
Full Stack Web Developer

Introduction



Phases of Development: Research & Planning

Objective:

Define features and architecture for scalability and usability.

Key Features:

Browse/search movies.

Manage favorite movies.

User authentication.

Technology Stack:

Frontend: React, Bootstrap

Backend: Node.js, Express, MongoDB

Phases of Development: Backend Development

Approach:

Built RESTful API using Node.js and Express.

Integrated MongoDB for data storage.

Implemented JWT for authentication.

Challenges:

Designing a scalable database schema.

Ensuring secure authentication.

Decisions:

Normalized schema.

Used JWT for token-based security.

Phases of Development: Frontend Development

Approach:

Develop a
React-based
interface.

Ensure
responsiveness
using Bootstrap.

Challenges:

Efficient state
management.

Graceful error
handling.

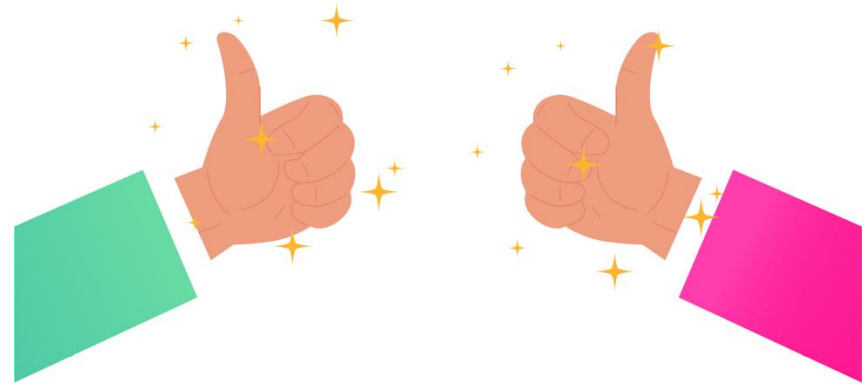
Decisions:

Used React
Context for state
management.

Integrated
robust error-
handling logic.

What Went Well

- I would say building the back end of this application went better than the front end. At this point of my web development journey, the back end make a little more sense than the front end.
- My problem-solving skills around web development have improved due to the many hours of troubleshooting errors.

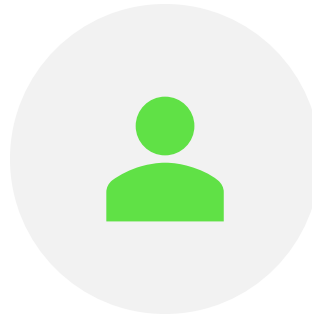


Challenges Faced



TIME MANAGEMENT:

THIS PROJECT BY FAR TOOK THE LONGEST AND I WAS STRUGGLING WITH HOW MUCH MORE TIME I CAN PUT INTO IT WITHOUT FALLING BEHIND



ERROR HANDLING:

IT TOOK SOME TIME TO FIGURE OUT WHAT ERRORS MEANT AND HOW TO RESOLVE THEM



OVERALL LEARNING CURVE:

THIS WAS A DEEP DIVE AND I HAD TO LEARN QUICKLY HOW TO SWIM. IT WAS CHALLENGING BUT I LEARNED A LOT

Final Solution

User-friendly platform for browsing and managing movies.

Secure authentication and personalized profiles.

Responsive design for compatibility across devices.

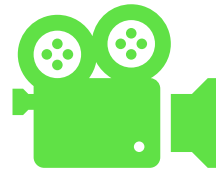
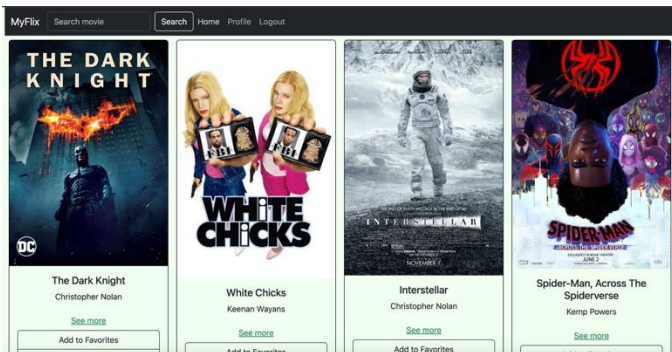
Scalable backend API for efficient data handling.

Visuals



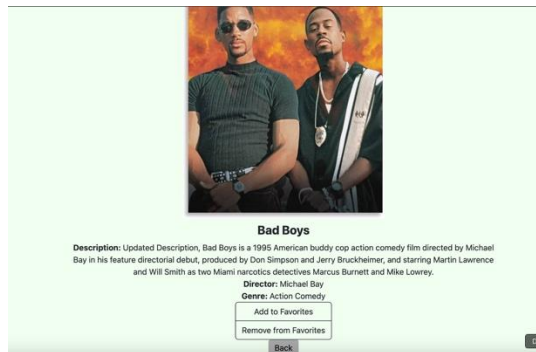
Homepage:

Movie thumbnails displayed.



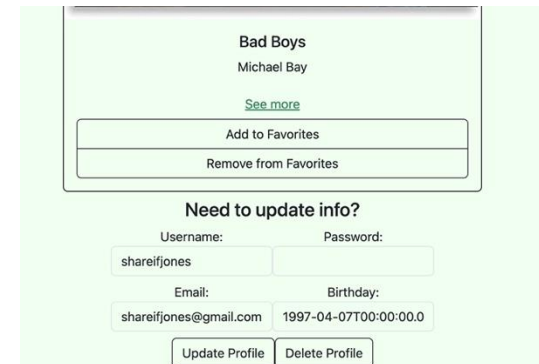
Movie Details:

Information about selected movies.



User Profile:

You can edit your settings and favorite movies list.



Reflection



This was the first time I put my full-stack development skills to the test. It was very challenging, but worth it.



If I had more time, I would make the UI even more responsive and customizable.



I strengthened problem-solving abilities through independent studying and finding outside resources



I delivered a user-centric application demonstrating technical expertise, ability to follow direction, and creativity.