

CP476 Project: Cinephile

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1. Introduction

Cinephile is an information management-based web application that will allow users to keep track of the movies they have watched on their personalized list. Users will also be able to add movies to their list by searching for them. The application will also have a recommendation tool that will recommend other movies to the user based on their interests.

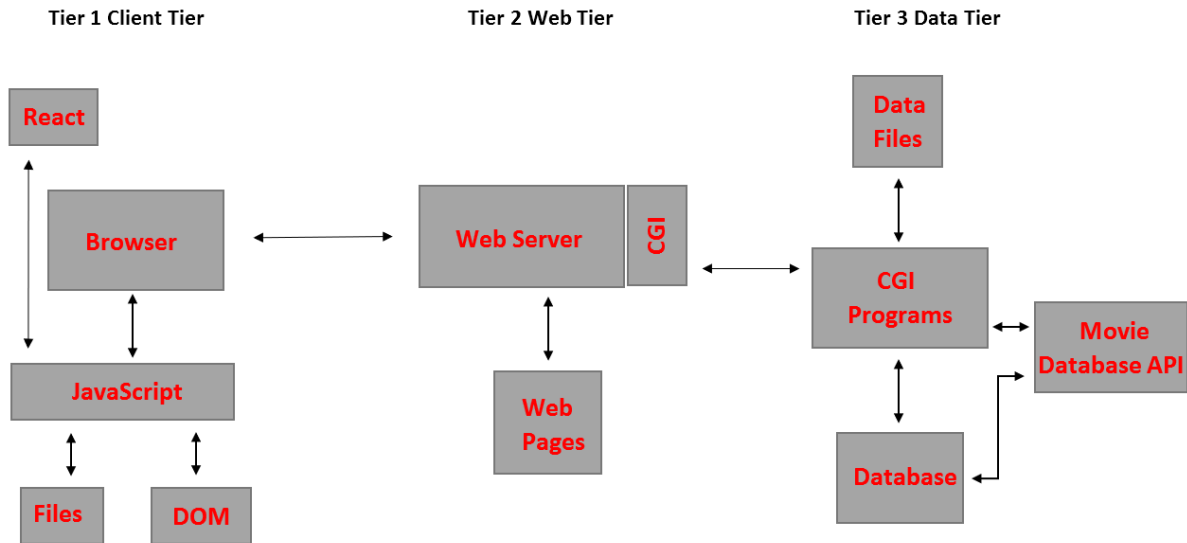
2. Problem Solving and Algorithms

The largest computing problem that needs to be solved will be the data collection and management of the application. We plan on using an open-source library for the movie entries, but we will have our own database implemented to keep track of the entries in the users list. We would also have some form of user authentication in our application letting users sign in before they can access their lists.

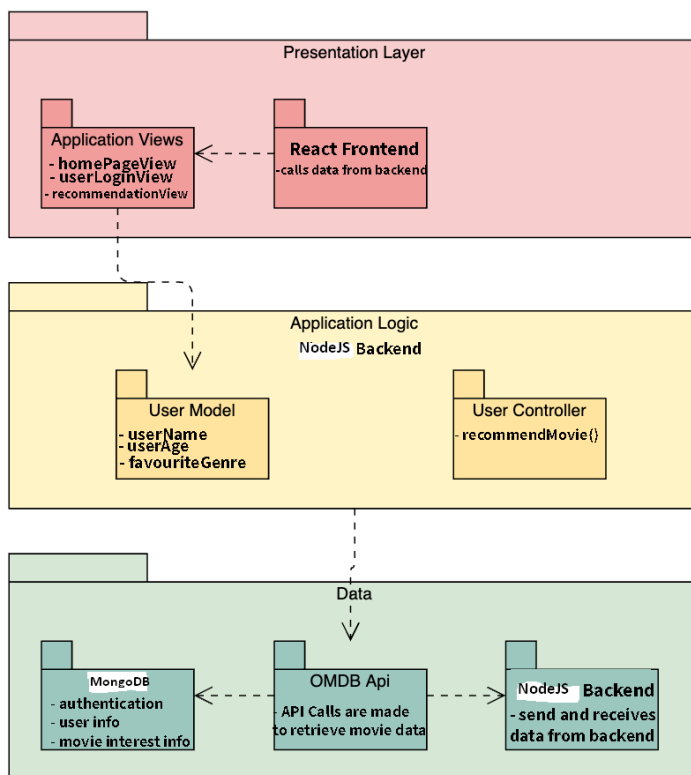
Our application will require an algorithm for the recommendation tool that will determine the users favourite genres based on their list entries and rankings to recommend movies that the algorithm will think the user will enjoy.

3. System Design

Design of our 3 Tier Web Application:



Architecture of application:



Tools to be used in application:

- ReactJS Framework Frontend
- React Backend
- Github (Version Control)
- VSCode (Text Editor)
- Apache Web Server
- MongoDB Database
- OMDb API

4. Milestones & Schedule

| Task | Expected Due Date | Lead |
|-----------------------------------|-------------------|----------------|
| Project Research | Mon. March 15 | Everyone |
| Project Proposal | Mon. March 22 | Everyone |
| Basic Prototype | Mon. March 29 | Arshdeep |
| Feature Complete Prototype | Mon. April 5 | Ireoluwatomiwa |
| Finishing Touches + Demonstration | Thurs. April 8 | Scott |
| Submission | Sat. April 10 | Everyone |

5. References

- <http://www.omdbapi.com/>