MOVIE RECOMMENDATION APPLICATION

Low-Level Design Document

Document Version Control

Date Issued	Version	Description	Author
07-03-2023	1.0	Initial LLD	Ashish Kr Jha
10-03-2023	1.1	Base Model	Ashish Kr Jha
15-03-2023	1.2	Final UI Version	Ashish Kr Jha
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Abstract

The Movie Search is a website where users can find trending, latest genre-based movies right now and also, they can search for the movies and view detailed information about the movies. This application uses the Movie Database API(TMDB) to fetch the metadata of the movies. Using this application users can browse the movies in the database and get details on the movies and view the trailer.

1. Introduction

1.1 Why this Low-level Design Document?

The purpose of this document is to provide a detailed description of the Movie Recommendation Application. We will explain the features and purpose of the application and explain each and every component used in our project.

1.2 Scope

The main objective of The Movie Recommendation Application is to provide an environment for the user to search and find details of the movie they want to read

1.3 Constraints

We can only find the movies which are present in the Database of the Movie Database. It has a limited collection of movies and might not contain regional movies.

1.4 Out of Scope

Features like login and storing user data in the database for further use are out of scope for this project

2. Technical Specifications

2.1 Javascript Libraries

The application we are building can be made into single page application for the user so it is better to use Javascript libraries like ReactJS, for better bug detection we have used Typescript along with core features of React Library

Tools	**Version**
React	18.2
Tailwind CSS	3.2.6
Typescript	4.9.5
Axios	1.3.4
React Router Dom	6.8.2

2.2 Linters

To maintain good standards across the project we have used Javascript Linters to weed out the potential bugs and errors in code

Library	Version
ES Lint	VS Code Built-in
Prettier	2.7.0

2.3 API

To fetch the data from the Movie Database provided by our API. And Axios library

Name	Source
The Movie Database	https://api.themoviedb.org/

2.4 Deployment

To Host our application we have chosen Netlify as a hosting provider because it is free and fast for hosting small projects

3. Technology Stack

The Movie Recommendation Application is a frontend Application, hence we are using the movie Database to fetch the data of the movies. Detailed Breakdown of all Technologies is given below:

3.1 Frontend

React Typescript	Render Application
Tailwind CSS	Styling The Application
Axios	API Library
React Router-Dom	Routing Library

3.2 Backend

The Movie Database	API to fetch Movie data

4. Proposed Solution

For the Movie Recommendation Application we have used The movie Database API to fetch the movie data from the API and display the results to the User.

5. Work Flow as a User:

A User should be able to input in the search input box or search for movies based on genre, and get the list of movies along with details according to the searched query. They should be able to view the details of the movies through our User Interface

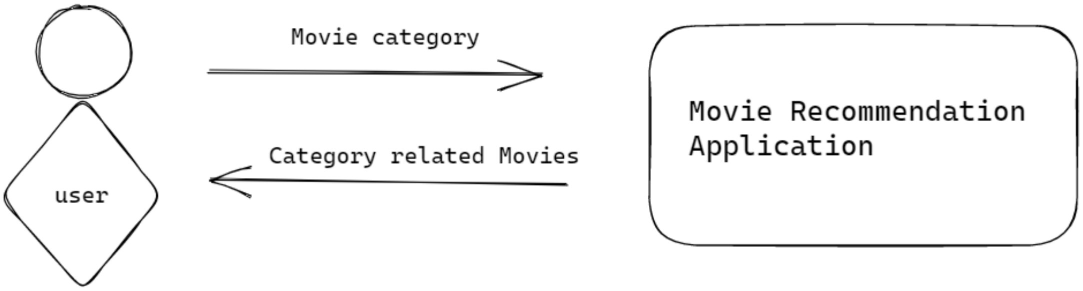

Figure 2: Workflow for user