



FILM VIBE

A PROJECT REPORT

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE AWARD OF THE
DEGREE OF

BTECH (Computer Engineering)

TO

RK UNIVERSITY, RAJKOT

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DECLARATION

I/We hereby certify that I/We am/are the sole author(s) of this project work and that neither any part of this project work nor the whole of the project work has been submitted for a degree to any other University or Institution. I/We certify that, to the best of my/our knowledge, my/our project work does not infringe upon anyone's copyright nor violate any proprietary rights and that any ideas, techniques, quotations, or any other material from the work of other people included in my/our project document, published or otherwise, are fully acknowledged in accordance with the standard referencing practices. I/We declare that this is a true copy of my/our project work, including any final revisions, as approved by my/our project review committee.

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Place: _____

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CERTIFICATE

This is to certify that the work which is being presented in the Project Report entitled “**FilmVibe**”, in partial fulfillment of the requirement for the award of the degree of **B.Tech. (Computer Engineering)** and submitted to the School of Engineering, RK University, is an authentic record of my/our own work carried out during a period from **June 2024 to December 2024**.

The matter presented in this Project Report has not been submitted by me/us for the award of any other degree elsewhere.

Signature of Student (S)

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This is to certify that the above statement made by the student(s) is correct to the best of my knowledge.

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Abstract

The project titled "**FileVibe**" is a dynamic movie website developed to provide users with an engaging and user-friendly platform to explore, discover, and learn about movies. Utilizing modern web technologies such as **React** for the frontend, **Tailwind CSS** for styling, and **MongoDB** for backend integration, FileVibe offers seamless navigation, real-time data updates, and an appealing user interface.

The platform enables users to search for movies, view detailed descriptions, including genres, release dates, and cast information, and explore movie reviews and ratings. The goal of this project is to create a scalable, secure, and highly responsive movie database that enhances the user experience and makes information readily available.

Through its innovative design and efficient backend, FileVibe aims to serve as a comprehensive movie platform for both casual viewers and movie enthusiasts. The system is built with scalability and future enhancements in mind, ensuring that it can adapt to changing user needs and technological advancements.

Notations, Naming Convention, and Abbreviations

Notations:

- **UI** – User Interface
- **UX** – User Experience
- **API** – Application Programming Interface

Naming Conventions:

- **Component Naming (React):**

Components are named using **PascalCase** (e.g., MovieList, UserProfile, SearchBar).

- **CSS Classes (Tailwind CSS):**

Tailwind CSS utility classes are used for styling, following **kebab-case** for naming (e.g., bg-gray-100, text-center, mt-4).

- **Variables and Functions:**

Variables and functions in JavaScript follow **camelCase** (e.g., fetchMovies, userData, handleSubmit).

- **Database Naming (MongoDB):**

Database collections and documents follow **snake_case** for easier readability and consistency (e.g., user_profiles, movie_reviews, movie_data).

Abbreviations:

- **CRUD** – Create, Read, Update, Delete
- **DB** – Database
- **JSON** – JavaScript Object Notation
- **HTTP** – Hypertext Transfer Protocol
- **JS** – JavaScript
- **MVC** – Model View Controlle

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CHAPTER 1: INTRODUCTION

1.1 Project Summary

FileVibe is a web-based platform that provides users with a comprehensive movie database. Users can search for films, explore genres, view movie descriptions, and check ratings and reviews. Built with React for the frontend, Tailwind CSS for styling, and MongoDB for the database, the platform focuses on a responsive, scalable design with seamless navigation.

1.2 Purpose: Goals & Objectives

FileVibe's main goal is to offer a robust movie search platform with intuitive navigation and detailed film information. Specific objectives include:

- User-friendly Interface: Ensuring easy movie searches and browsing.
- Detailed Movie Descriptions: Offering rich data including plot summaries, cast, and more.
- Scalability & Security: Using MongoDB for secure data storage and scalability.

1.3 Scope

FileVibe enables users to:

- Search and browse movies by genre or title.
- Access detailed descriptions and reviews.
- Read existing ratings, though users cannot yet contribute reviews or ratings. It does not offer movie streaming services.

1.4 Technology and Literature Review

- React: For dynamic UI components.
- Tailwind CSS: For a clean, responsive design.
- MongoDB: Provides database management, user authentication, and secure storage.

CHAPTER 2: PROJECT MANAGEMENT

2.1 Project Planning and Scheduling

- 2.1.1 Development Approach: Agile methodology ensures continuous feedback and iteration.
- 2.1.2 Project Plan: Key milestones include project initiation, database setup, frontend development, testing, and deployment. The team consists of frontend and backend developers, and testers.
- 2.1.3 Schedule Representation: A Gantt chart details the timeline and tasks.

2.2 Risk Management

- 2.2.1 Risk Identification: Key risks include performance bottlenecks, security vulnerabilities, and scalability issues.
- 2.2.2 Risk Analysis: Performance risks are deemed low, while scalability and security risks are moderate.
- 2.2.3 Risk Planning: MongoDB's scalable architecture and built-in security measures will mitigate risks.

CHAPTER 3: SYSTEM REQUIREMENT STUDY

3.1 User Characteristics

The target audience includes general users who seek movie information and possess basic web navigation skills.

3.2 Hardware and Software Requirements

- Hardware: Standard client devices (laptops, smartphones) with internet access.
- Software: Modern web browsers, React frontend, MongoDB backend.

3.3 Constraints

- Regulatory Policies: Compliance with data privacy regulations.
- Interfaces: Integration with MongoDB for data management and storage.
- Security: Enhanced with MongoDB's authentication protocols.