GLA UNIVERSITY MATHURA

MINI PROJECT - II

SYNOPSIS ON NETFLIX CLONE

Submitted By: -

Name: - Yash Sharma

University Roll No: - 201500825

Name: - Harsh Agarwal

University Roll No: - 201500263

Name: - Vutukuri Amaresh

University Roll No: - 201500808

Name: - Javvaji Vinay Venkat Sandeep

University Roll No: - 201500314

Submitted To: -

Mrs. Ruchi Gupta

(Technical Trainer)

DECLARATION

I hereby declare that the work which is being presented in this Project Synopsis entitled "Netflix Clone" in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in Computer Science & Engineering under the supervision of Mrs. Ruchi Gupta (Technical Trainer) of GLA University, Mathura in the session 2022-23.

Group Members:

Name of Candidate	University Roll No.	Signature
Yash Sharma	201500825	
Harsh Agarwal	201500263	
Vutukuri Amaresh	201500808	
Javvaji Vinay Venkat Sandeep	201500314	

Course: B. Tech (Computer Science and Engineering)

Year: 3rd

Semester: VI

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Abstract

This web application gives the basic understanding in fetching data from provided API using axis. The web app is being hosted at Firebase Hosting. The Error handling in this web app is a bit challenging. But everything was handled. The aim of this project is to explain the impact of video streaming technology and how the video streaming service offered by Netflix has made an impact on today's consumers as well as the entertainment industry (television and movies). By developing a Netflix clone as a project. I seek to understand how the technology works and how it has turned into such a success among users. The service offered by this website has re-shaped the way users consume media as well as how the entertainment industry approaches its intended market. Netflix is one of the leading video streaming service providers today. A Netflix clone is a feature-rich software script that allows developers to create and deploy a video-on-demand platform like Netflix. Despite being aligned with that of Netflix, the framework of a Netflix clone can be optimized to execute features that the former doesn't have, such as a larger database and an integrated review section. Within the project report we aimed at developers who wish to build a Netflix clone and employ its framework for the development of more OTT media services and enterprise applications. As a step in this direction, will be able to: Setup and configure the necessary tools and software for developing a Netflix clone. Build and deploy a website like Netflix that is complete with core features. Customize their newly created video streaming platform and enhance its functionalities. Use their newly learned web development practices to optimize existing And Future 6 enterprise applications.

Introduction

Entertainment industry is on a complete rollover from its traditional methods into a digital make over. People get to watch their favorite shows and movies while snuggling themselves into their beds all night long. The pandemic also demands people to stay indoors making them look out for entertainment within their bedroom walls. The on-demand video streaming apps have turned out to be their best friends who keep them entertained wherever they go. This industry is on a definitive surge and is growing wide and vast, bestowing enormous potential for the newbies to leverage. If you are another dreamer roaming this world with entrepreneurial desires burning in your heart it is time to add some gasoline to your desire by taking up Netflix clone as your ride into your dream. For today's audiences it is all about immediacy and mobility, the content they are looking for must be just a click away to fit their needs. Now everything is possible. Now if you want to play movies, music or watch an episode of your favorite TV show you can easily do it wherever you may be. If we want to fully understand the impact of video streaming in society and the entertainment industry, we must first look at the technological advancements that paved the road so companies and services like Netflix, Hulu could become successful. In this project, Netflix clone is a script that will help you to get started with your own video streaming platform. Netflix clone is a complete white label Netflix clone with a features rich and highly scalable website and mobile apps. Netflix clone is an on – demand video streaming platform like Netflix. It helps you to start with your own video streaming platform then with Netflix clone you can get started within few days. Netflix clone offers a complete white label solution for an original Netflix.

Objective

This Project Entitled as NETFLIX CLONE has effectiveness as is on demand DVD rental as well as internet streaming provider work. Some of the objectives are: The first objective plan is one screen streaming. The second plan is two screens streaming the network, and the third option is four screens streaming at the exact same time as the other screens. The fourth plan is a DVD or blurry rentals. Customers decide what plan is best for them and it solely depends on how many devices they are planning to use the network on. And to develop further favorable features in order to expand their video library. To make Netflix available on all the internet accessible devices. Netflix clone is continuously improving the customer experience with a focus on expanding our streaming content, enhancing our user interface and extending our streaming service to even more internet-connected devices, while staying within the parameters of our consolidated net income and operating segment contribution profit targets. Becoming the best global entertainment distribution service. Licensing entertainment content around the world, creating markets that are accessible to film makers and helping content creators around the world to find a global audience

Software Requirement

- Front-End Technologies: React JS, Tailwind CSS
- Back-End Technologies:Open AI, Mongo DB, Express, Node JS
- Language Used: JavaScript
- Database: Mongo DB
- Web Browser: Chrome, Firebox, Microsoft Edge

Hardware Requirement

- Processor   : Minimum Dual core
- Operating System : Windows
- Ram   : Minimum 512mb
- Hardware Devices: Mobile or computer
- Hard disk   : Minimum 4Gb
- Display   : Any display for output

Front-End and Back-End

For Front-End we use-

React Js:-

Reactjs is a JavaScript library for building user interfaces. React is used to build single-page application and developed by Facebook. React allows us to create reusable UI components. It is used to make application quickly and efficiently significantly less code than you would with javascript.

JavaScript: -

JavaScript (JS) is the most popular lightweight, interpreted compiled programming language. It can be used for both Client-side as well as Server-side developments. JavaScript also known as a scripting language for web pages.

CSS: -

CSS is the language for describing the presentation of Web Pages, including colors, layout, and fonts. It describes how HTML elements should be displayed. This language contains coding elements and is compressed of these "cascading style sheets" which are equally called CSS files

HTML: -

HTML is the standard markup language for documents designed to be displayed in a web browser. It often assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript.

# For Back-End we use: -

Mongo Db: -

Mongo dB is an open source NoSQL database management program. NoSQL is used as an alternative to traditional relational databases. NoSQL database are quite useful for working with large sets of distributed data. Mongo DB is a tool that can manage document-oriented information, store are retrieve information

Node JS

Nodejs is an open-source, cross-platform javascript runtime environment and library for running web application outside the clint's browser. Node is used extensively for server-side programming, making it possible for developers to use javascript for clint-side and server-sde code without needing to learn an additional language.

DFD (Data Flow Diagram)

Netflix Data Flow Diagram
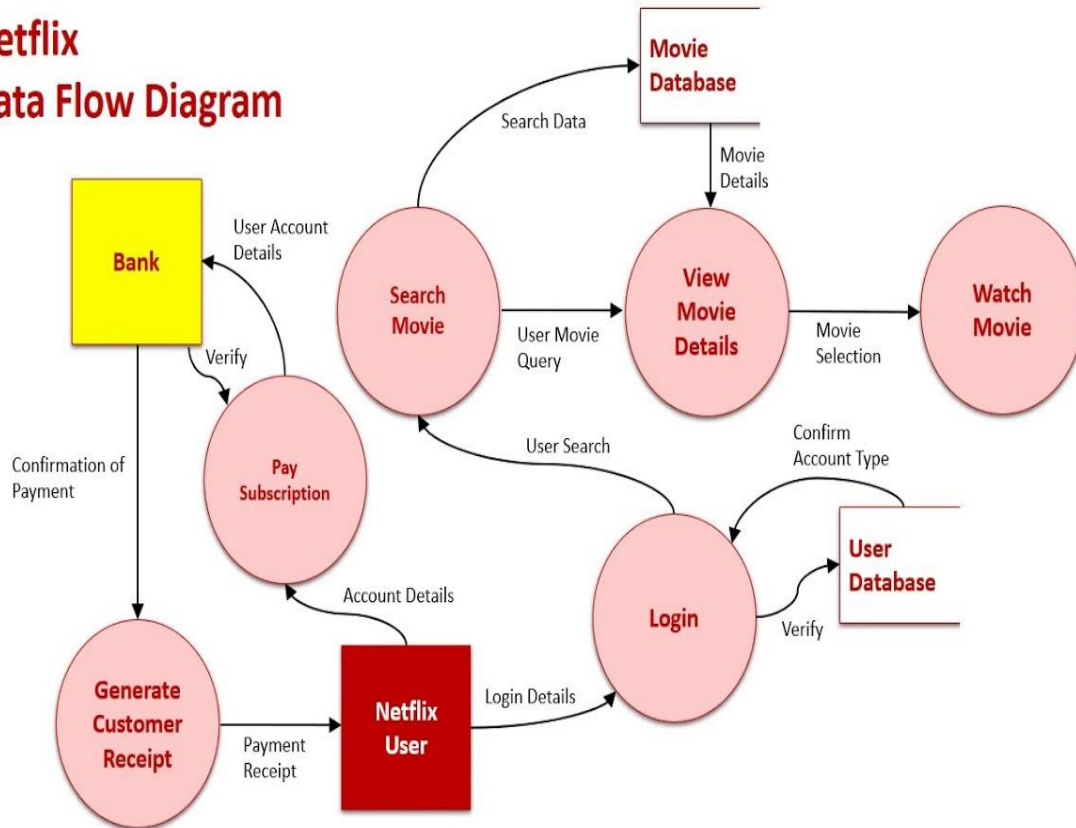
Bibliography

React	->	[React Documentation](#)
Tailwind CSS	->	[Tailwind css Documentation](#)
Node JS	->	[Nodejs documentation](#)
Mondo DB	->	[Mongodb documentation](#)
Express JS	->	[Express js Documentation](#)
JavaScript	->	[JavaScript's Documentation](#)

Git Hub Link: -

https://github.com/codinghuslter/NETFLIX-CLONE

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