VuTube

MINI PROJECT – I

SYNOPSIS

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Acknowledgement

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ABSTRACT

Understanding user behavior in online video streaming is essential to designing streaming systems which provide user-oriented service. However, it is challenging to gain insightful knowledge of the characteristics of user behavior due to its high volatility. To this end, the paper provides an extensive analysis of user behavior in online video streaming, based on a large scale trace database of online streaming video access sessions. We categorize user behaviors into multiple patterns and probe the relationship between them. Our work puts emphasis on the statistical characteristics of user behavior patterns. Particularly, this study uncovers that the behavior of one individual user in a video streaming session is not only related to the popularity level of the video, but also has strong correlation with the user's behaviours in previous streaming sessions.

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INTRODUCTION

The emergence of modern technologies has had profound impacts on the cinematic universe, with online video streaming now an integral part of the entertainment industry. The main advantages of online video streaming are flexibility and accessibility to watch content anywhere and anytime. People access to these platforms is no longer restricted to the hours of operationof cinema halls or network operators, but can be provided anytime and anywhere. Online video streaming is a well-established, and effective, entertainment method. However, there is a need for more empirical research to be directed toward investigating users' experiences with online video streaming, their impact on there day to day life and there experience to this new form of experience. The purpose of this project is to develop a back-end application for online video streaming website using React technologies.

SOFTWARE AND HARDWARE REQUIREMENTS

- Windows 10
- Processor Base Frequency of 1.8 GHz or higher
- 4 GB RAM or more
- 75 MB of available disk space or more
- Minimal screen resolution: 1366x768 pixels
- Camera and Mic (USB or Built in)

PROJECT DESCRIPTION

The purpose of this project is to develop a responsive website for online video streaming using react technologies. It allows for flexible data format and deliver of its data so that each analysis application can receive only the information it needs and in the format required.

- Video Manager – This module allows users to search for the videos they are looking by using content description of the video.
- Game Module - This module allows users to search specifically for game related content video.

- Genre Target - This module allows users to search a specific genre videos by simply typing the genre name and it displays all the content related to the specified genre

WORKING

We fetch data with rapid youtube API as it will fetch the youtube video file data, video descriptions. As the given data will be automatically displayed with the pre defined styles.There will be sections in the web application with a search bar where you can search for the desired content. The web app also has a predefined video genre catalogue were you will find the content according to the desired or selected genre. You can play the content just by clicking on the video you want as the video control options are also provided with the interface.

IMPLEMENTATION

Java script is a scripting language used to enhance the functionality of the browser. Java script is integrated with HTML and navigator 2.02. Java script facilitates the developer with properties related to document windows, frames, loaded documents and link.

Rapid API

As digital transformation efforts have accelerated over the last year, developers require modern API tooling to build digital applications and services.

RapidAPI provides a unified experience across the API development lifecycle from developing APIs with RapidAPI Client to testing and monitoring them with RapidAPI Testing.

Your development teams, partners and customers can discover and connect to your APIs — all from a single, next-generation API Platform. RapidAPI's Enterprise Hub can be customized to match your company's brand, integrates seamlessly with internal systems and tooling, supports all of your APIs, and can be deployed as a cloud-based service, on premises, and across multi-cloud environments.

React

React makes it painless to create interactive UIs. Design simple views for each state in your application, and React will efficiently update and render just the right components when your data changes.
Declarative views make your code more predictable and easier to debug.
Build encapsulated components that manage their own state, then compose them to make complex UIs.
Since component logic is written in JavaScript instead of templates, you can easily pass rich data through your app and keep state out of the DOM.
We don't make assumptions about the rest of your technology stack, so you can develop new features in React without rewriting existing code.
React can also render on the server using Node and power mobile apps using React Native.

Material UI

Material-UI is simply a library that allows us to import and use different components to create a user interface in our React applications. This saves a significant amount of time since the developers do not need to write everything from scratch.
Material-UI widgets are heavily inspired by Google's principles on building user interfaces. It is, therefore, easy for developers to build visually-appealing application

REFERENCES:

Books:

- The Road to learn React by
  - Robin Wieruch

- The Full Stack developer by
  - Chris Northwood

- Modern Full Stack Development using React by
  - Frank Zammetti

- Full stack Java Script by
  - Azat Mardan

Websites:

- www.w3schools.com
- www.google.com
- www.geeksforgeeks.org
- www.stackoverflow.com

Faculty Guidelines:

Ms.Gurpreet Kaur (Technical Trainer in GLA University)

GitHub Repository link:

https://github.com/KAUSTUBHDUBEY790/VUTUBE