**YOUTUBE CLONE**

**Introduction-**

The following subsections of the Software Requirements Specifications(SRS) document provide an overview of the entire SRS.

YouTube Clone is an efficacious video-sharing solution that aids you in launching your video streaming software that has the power to rival YouTube itself. The app allows admin to add an unlimited collection of videos to keep the users hooked to the app

**Purpose-**

It allows us to use React and JavaScript features that we wouldn't be able to use in a normal CSS stylesheet. We can pass certain values as props to our styled components just like we would a normal react component.The main purpose of React is to be fast, scalable, and simple. It works only on user interfaces in the application. This corresponds to the view in the MVC template

**Scope-**

This project is great because it covers a lot of topics that are always present in reactjs workflow, some of them are: project structure, destructuring, state management, passing props, API calls and more!

**Definitions ,Acronyms, and Abbreviations-**

**Side Bar**- This Addon is very simple. To operate only click on the toolbar button (in Firefox, for Opera, click the icon next to the sidebar), and you will see the sidebar UI with YouTube mobile view. Just search for your desired music and video,hit play and start to watch or listen. It is important to note that, when you close the sidebar, YouTube will close as-well.

**Video Row-** This function takes the video object array that we created above and displays each of the video items on the front end

**Home Content -** Triggering Home Content: binge watchable content. Key to triggering YouTube Home is to make viewers watch more of your content. Entice them to watch more videos by making binge watchable content

**Visitors**-Anyone can visit you tube and anyone can access the content of you tube even without signing in the account.

**Status Bar-** user can search the you tube contents from the status bar so the data is fetched from the database.And user can upload videos by clicking the upload button in the status bar by signing in.

**SRS -**A document that completely describes all of the functions of a proposed system and the constraint sunder which it must operate. For example, this document.

**OVERVIEW-**

The SRS is organized into two main section. The first is the overall description and the second is the specific requirements. The overall description will describe the requirements of the You tube. The specific requirements section will describe in detail the requirements of the system.

**Reference-**

This web application has been prepared on the basis of discussion with Team members, faculty members and also taken information from following website.

Websites:

1. [www.google.com](http://www.google.com)

2. [www.wikipedia.org](http://www.wikipedia.org)

**The overall description-**

YouTube Clone is an efficacious video-sharing solution that aids you in launching your video streaming software that has the power to rival YouTube itself. The app allows admin to add an unlimited collection of videos to keep the users hooked to the app.

**Product perspective-**

YouTube is an American video-sharing website headquartered in San Bruno,California. YouTube

allows users to upload, view, rate, share, add to favorites, report, and comment on videos, and subscribe to other users. It offers a wide variety of user-generated and corporate media videos. Available content includes video clips, TV show clips, music videos, short and documentary films, audio recordings, movie trailers, live streams, and other content such as video blogging, short original videos, and educational videos

**Performance Requirements-**

This software will have following requirements:

* The user must have a device which is at least to play a 144p resolution video.
* The user must have at least 500kbps of net connection in order to play the video without buffering

**User Characteristics:**

YouTube has created a revolution in the on-demand video streaming app sector. Within a decade, it has become the popularly used app across the world. The factor that sets it apart from other \*best live streaming app\*s is that it allows anyone to post on the application. Youtube is one of the top-grossing apps with more than 15 million viewers a month. YouTube has set a benchmark. It would take an effective algorithm, attractive UI, efficient business strategy to develop such an app.

Hardware Requirements:

As this system is an online Web-based application so a client server will be the most suitable Organizational style for this system. Computer systems will be needed by each of the actor as well as that user must be connected to the internet. So, concisely following hardware will be needed.

1. Computer system.

2) Internet availability

**Functional Requirements-**

Following are the services which this system will provide. These are the facilities and functions required by the user.

• Search

• Share Videos

• Upload Videos

• Navigation Section

• Home

• Trending

• Subscription

• Library

• History

• Watch Later

• Liked Videos

**You tube Clone Content and Installation Steps:**

• Building the Side Bar & Header

• Building the Recommended Videos page (here)

• Building the Search Page (here)

• Building the Video Player Page (here)

• Run npm install command to download the required packages

• Before starting we have to install npm duration and then

• Run npm start to run the project

• Open Your browser : "http://localhost:3000/" to run the project

**Software’s needed to run Youtube Clone**

. React Js

. Visual Studio Code

. Font awesome

**Non-Functional Requirements-**

Non-Functional requirements define the needs in terms of performance, logical database requirements design constraints, standards compliance, reliability, availability, security, maintainability and portability.

**Performance Requirements**

* The user must have a device which is at least to play a 144p resolution video.
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**Safety Requirements**

If there is extensive damage to a wide portion of the database due to catastrophic failure, such as a server crash, there cover method restores a past copy of the data base that was backed up to archival storage (typically tape) and reconstructs a more current state by reapplying or redoing the operations of committed transactions from the backed-up log, up to the time of failure. And in the meanwhile, the server switch to the backup servers to keep the site working.

**Security Requirements**

Security systems need database storage just like many other applications. However, the special requirements of the security market mean that owner must choose their database partner carefully.

All the Private data uploaded by the user is absolutely confidential to the other users. User can also report for if the find any suspicious activity in the YouTube, so the security department can take care of that.

**Software Quality Attributes**

***AVAILABILITY***: The site is available for the users 24x7.

***MAINTAINABILITY***: The developers and a team of software engineers work on the maintenance and the updates of the site.

***USABILITY***: The site can be used anywhere if the connectivity to the

internet and a device