

# **SOCIAL MEDIA WEBSITE** **USING JAVASCRIPT / HTML /** **CSS / REACT.JS/ FIREBASE**

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# OBJECTIVE

Social Media plays a crucial role in connecting people and developing relationships, not only with key influencers and journalists covering your company's sector, but also provides a great opportunity to establish customer service by gathering input, answering questions and listening to their feedback.

In this project we have tried to make a social media type of website. In this website we have used React.JS, HTML, CSS for Front end Development and Firebase is used as the Backend for the project. Following are the functionality that will be provided in our project:

- • Sign Up
- • Log In and Log Out
- • Posting a Social Media Post
- • Add Caption to the Post
- • Adding User as a Pal
- • Comment on a Post
- • Firebase Authentication
- • Interactive Interface
- • Posting Your Fleet

# CHAPTER 1.2: BRIEF INTRO OF ALL THE API'S AND COMPONENTS USED (DESCRIPTION)



HTML5

Hypertext Markup Language is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets and scripting languages such as JavaScript



CSS3

Cascading Style Sheets is a style sheet language used for describing the presentation of a document written in a markup language such as HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript



JavaScript

JavaScript, often abbreviated as JS, is a programming language that conforms to the ECMAScript specification. JavaScript is high-level, often just-in-time compiled, and multi-paradigm. It has curly-bracket syntax, dynamic typing, prototype-based object-orientation, and first-class functions

# CHAPTER 1.2: BRIEF INTRO OF ALL THE API'S AND COMPONENTS USED (DESCRIPTION)



React.js

React is an open-source, front end, JavaScript library for building user interfaces or UI components. It is maintained by Facebook and a community of individual developers and companies. I have used react.js for writing my program. In react we have to write code in JSX format and later it gets converted to respective JavaScript by Babel Compiler



Node.js

Node.js is an open-source, cross-platform, back-end, JavaScript runtime environment that executes JavaScript code outside a web browser. I have used node.js for creating a runtime environment for my project



FireBase

Firebase is a platform developed by Google for creating mobile and web applications. It was originally an independent company founded in 2011. In 2014, Google acquired the platform and it is now their flagship offering for app development. I have used Firebase in this project for hosting my website and I am planning to use the database feature of Firebase in future for maintaining the database for my app

# INNOVATIVE COMPONENT (USE OF FIREBASE AS OUR DATABASE)

## Authentication

Firebase Authentication provides backend services, easy-to-use SDKs, and out-of-the-box user interface libraries to authenticate users of your application. Normally, what takes months to build i.e. authentication. We can do it in less than 10 lines of code using FIREBASE

## Firebase Database Query

Firebase has simplified the process of retrieving specific database data through queries. Queries are created by chaining one or more filtering methods

## Firebase Realtime Database

Realtime Database is essentially a NoSQL cloud-storage that can be connected with the application to provide real time access to the data across different platforms. One of the advantages is that the database can work offline, caching the data in device memory, and after reconnecting to the internet, synchronizing it.

## Cloud Firestore

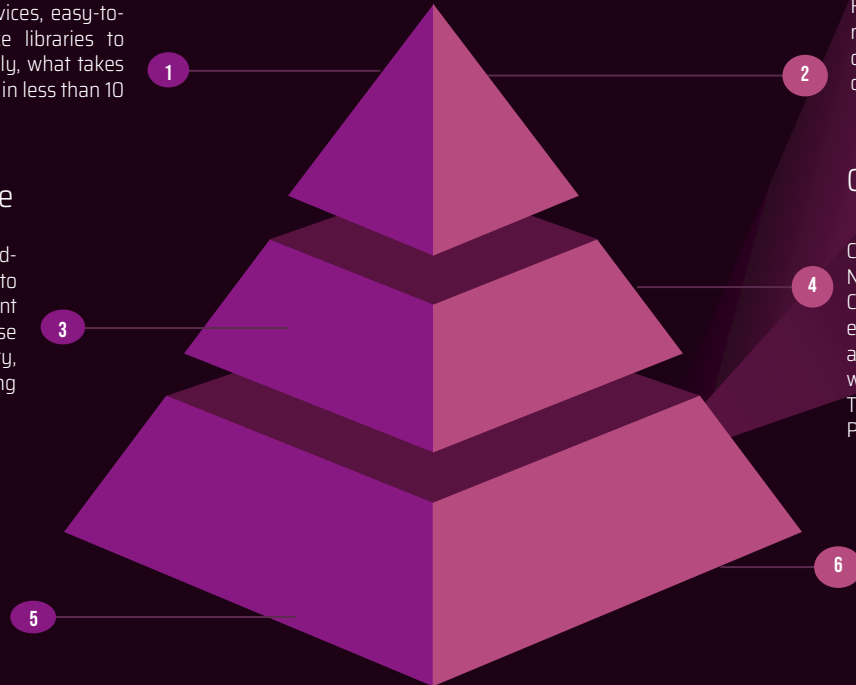
Cloud Firestore is another cloud-hosted real-time NoSQL database. Unlike Firebase Realtime Database, Cloud Firestore is designed for enterprise use, which entails scalability, complex data models, and advanced querying options. There are SDKs for working with server-side code of both databases. These are available for Python, Node.js, Golang, Ruby, PHP, Java, .NET, and C#.

## Google Analytics

Google Analytics comes first as it's a well-known tool integrated into Firebase platform. Google Analytics provides valuable metrics about your user retention, user engagement rates, or any other type of user behavior data. In terms of Firebase, the reporting capabilities are unlimited and free. You can choose which events to track, and integrate it with analytical partners that names 52 companies on the integration page.

## Cloud Storage

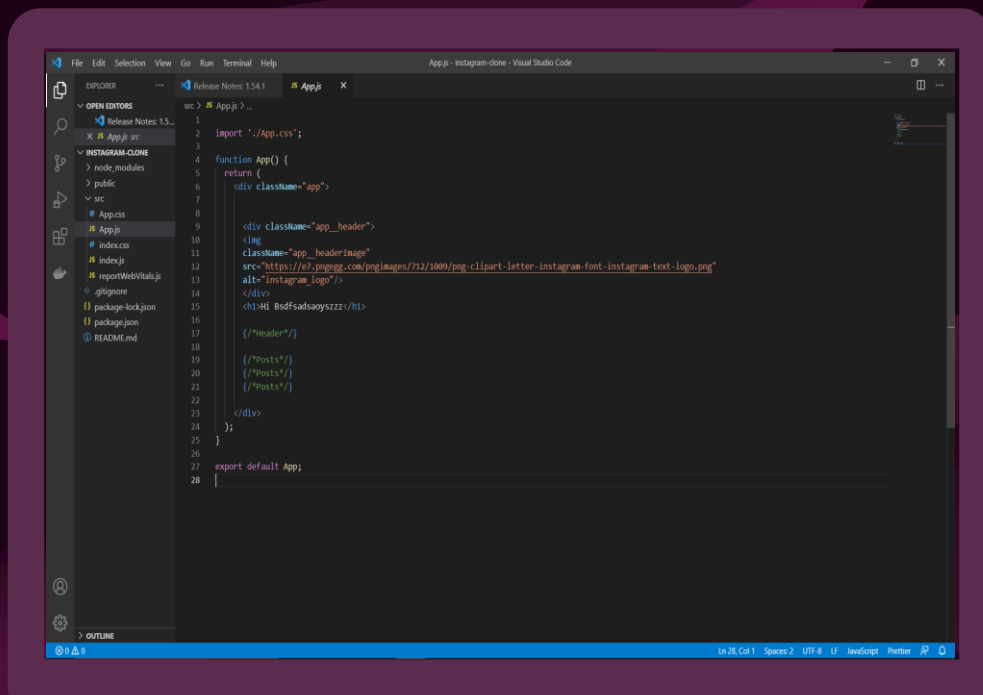
Cloud Storage is basically a Google Cloud for in-app user generated content, like photo, audio, or video files.



# WORK DONE SO FAR

## WORKING ON THE FRONT-END

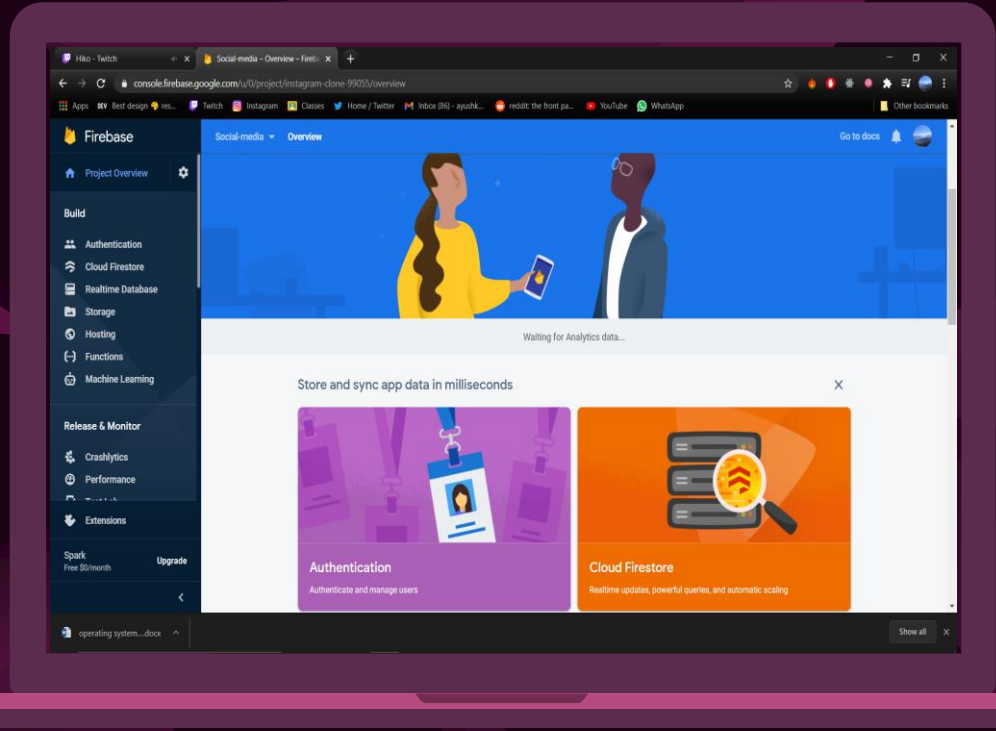
We are currently working on the front end part of the website and as soon as the front end completes we will move to the backend of the project i.e. connecting it to firebase and working on creating database schema for the project.



# WORK IN FUTURE

## WORKING ON THE BACK- END

We will be connecting the website to the backend using firebase. All the functionality that has been discussed in previous slides will be added to the later stage



# REFERENCES

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