

A Web - Based Service Chat&Snap to Communicate With People

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Abstract - The project is a report in partial fulfillment of the requirement of the requirements for the award of a degree of Bachelor of Technology in Computer Science .Chat&Snap is a social media platform. The main aim for persuasion of the topic is to provide stability for end to end user privacy and security systems. Many researchers have concluded that social media is going to play a major part in our future. Hence, we need a trusted platform for transaction of our data online. Chat&Snap consists of security systems that take care of user privacy. In the recent trend of social media, machine learning and artificial intelligence have integrated them self in the picture for the taste of users' security and development with the help of training data sets and data models. The purpose of this project was to develop a window based chat application (Chat&Snap) to be used on different browsers. Chat&Snap is important because it allows for real-time online conversation. The system is meant to enable the general user to interact online without meeting physically.

1. INTRODUCTION

1.1 Information on Chat&Snap :

Although a flawless app, Snapchat still has its flaws when it comes to user privacy and versatility which holds it back from being the best app. This is where we step-in with our app named "Chat&Snap" which aims at filling in the gaps snapchat possesses.

Unlike Snapchat, our application provides end to end user privacy by means of disabling the screenshot feature while using the app. This way users can be rest assured that their private conversations are safe. Thereby providing end to end privacy protection.

Apart from privacy, our app provides a variety of interesting filters and features to edit pictures as well as videos to gain user indulgence by means of a friendly interface.

1.2 Problem Definition :

Major drawbacks of Snapchat are privacy issues, storage management and lack of versatility due to which snapchat lacks the ability to become the best app. Other users can screenshot photos and videos which violates user privacy.

It can only share photos and videos which makes it one-dimensional when it comes to usage thereby reducing the number of user engagement

Nowadays devices run out of space easily as devices are used to store important documents. Storing photos and videos may lead to storage shortage in crucial times.

1.3 Project Purpose :

The main purpose of Chat&Snap is to become the best app by removing the drawbacks of snapchat.

There are so many cases where private photos or conversations are leaked on the internet thereby impacting a person's self-respect and violating their right to privacy. To overcome this issue our app disables the screenshot feature while using the app.

Chat&Snap stores photos and videos on a server rather than in a device's local storage. This enables users to freely use our app without worrying about their storage getting filled up.

Nowadays an app has to be versatile to fulfill the user's needs. A social media app cannot be one dimensional. Chat&Snap allows users to share any media file, be it photos, videos or even document files which is not possible on snapchat. This is what sets Chat&Snap apart and makes it user friendly as we understand a user's need for a versatile platform.

2. PROJECT WORK

2.1 Problem Statement :

Major drawbacks of Snapchat are privacy issues, storage management and lack of versatility due to which snapchat lacks the ability to become the best app. Other users can screenshot photos and videos which violates user privacy.

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2.2 Proposed Approach :

There are so many cases where private photos or conversations are leaked on the internet thereby impacting a person's self - respect.

To overcome this issue our app disables the screenshot feature while using the app.

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2.3 Pre-requisites

The requirements are as follows:

Technologies used HTML5, CSS4.15, Django4.0, Bootstrap5 and Javascript ES6.

IDEs to be used VS Code, Code hosting platforms to be used- Github Operating Systems - Windows, Linux (Debian, Arch, etc.)

2.4 Methodology

1. Log-in/Sign-up: The users would land on this page the first time opening the website. They would have the option to either create a new account or use their existing email to sign-up. If their account already exists, they can just log in.

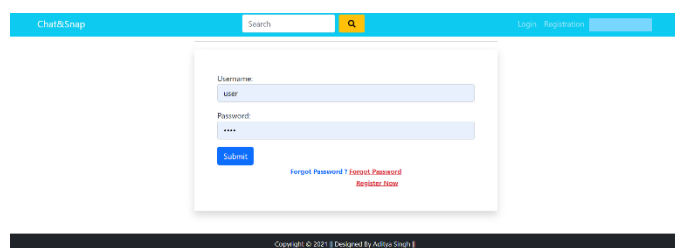


Figure 1.1- Log-in

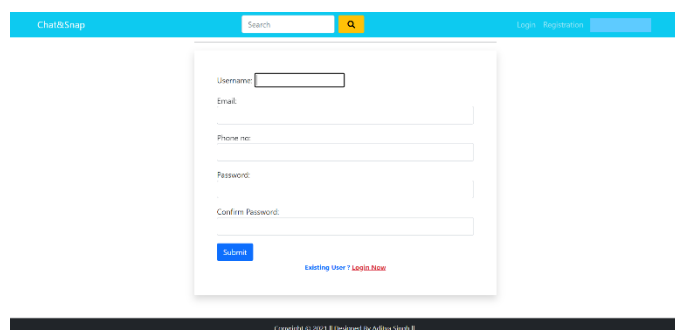


Figure 1.2- Registration of user

2. Home Page/Chat Section : This page typically encountered first on a website when a user log-in, that usually contains links to the other pages of the site. Here user gets the access to chat box.

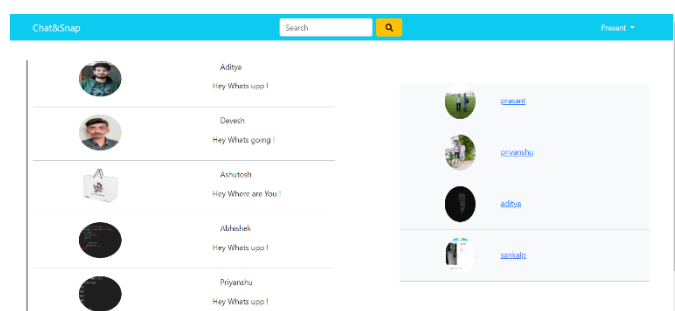


Figure 2.1- Home Page/Chat Section

3. Profile : A user profile is a collection of settings and information associated with a user. It contains critical information that is used to identify an individual, such as their name, profile picture, photograph and posts shared by the user.

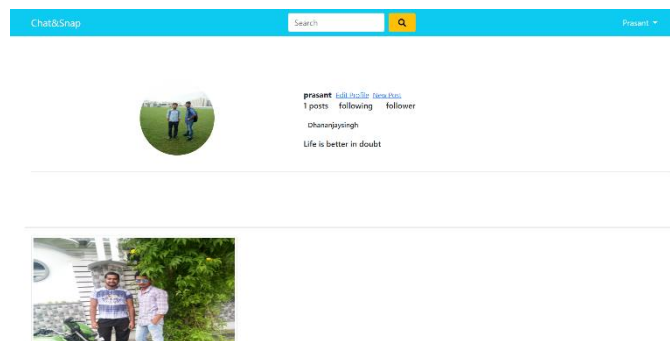


Figure 3.1 – Profile of User

4. Camera And Filters : Here the user can click pictures through the camera and user can add filters to the pictures.



Figure 4.1 – Camera with different Filters on the face

3. TECHNOLOGY

3.1 Front-end:

Many front-end frameworks and libraries support JavaScript because of the V8 engine's innovation, so to search out the leading front-end frameworks and libraries below the business normal, we tend to collect usage information using GitHub, which is the largest GitHub repository hosting service globally. Its usage statistics will replicate international front-end developers' tendency on every front-end framework and library.

3.1.1 HTML, CSS And Javascript : HTML provides the basic structure of site, which is enhanced and modified by other technologies like CSS and JavaScript. CSS is used to control presentation, formatting, and layout. JavaScript is used to control the behavior of different elements of the Chat&Snap website.

3.2 Back-End :

A back-end is responsible for server-side web application logic and integration of the work front-end of Chat&Snap website do. Back-end are usually write the web services and APIs used by front-end and it helps to keep record of log-in/sign-up ,user's profile and user's post ,etc. details of the user.

3.2.1 Django : Django is used for development of different types of websites, in particular, a highly customizable app, such

as a social media website. Django is a free, open source, high-end framework written in the famously simple, flexible, and relatively easy-to-learn Python programming language.

3. CONCLUSIONS AND FUTURE WORK

3.1 Conclusion :

To conclude, we believe Chat&Snap is going to be the best app for users seeking something which offers the best features of all the other apps present in the market inside a single application.

Firstly, it is an app which passes a simple interface but is fully loaded with tons of features which make sure user satisfaction is guaranteed.

Secondly, Chat&Snap is an extremely fast way to communicate with your peers because of it is simple and easy to use chat feature. In addition to that you can express your emotions as well by the help of snap and short videos.

Lastly, users can use various other features like sending document files, server storage of photos and videos along with a variety of filters to have a good time with friends and family.

3.2 Future Work :

With regards to the future of Chat&Snap, we have a clear vision of what we want Chat&Snap to accomplish.

For starters, we want to optimize the user interface and usability to the best of our ability so that user's do not face any difficulty while using our app.

To provide another security option in our app, we are planning on integrating a live location feature which will show the exact location of a user in real-time. We understand that some user's might be hesitant to share their location with others, so they will have a choice of disabling this feature as per their needs.

The recent trend on social media platforms is that every app is similar with regards to some specific features. Tik-Tok left an everlasting craze of short videos which led to other apps like Instagram to release "reels" and YouTube to release "shorts". Hopping on this trend, we are aiming to provide a similar service where users will be able to make short videos and post it on a different tab named "explore" where people around the world can watch them.

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