

A Mini Project Report  
on  
**META STREAM**

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# **1. INTRODUCTION**

## **1.1. Overview**

Meta Stream is a Video on Demand Platform that enables people to stream high quality content. Users can choose from wide range of High-Quality Stock videos of different Genres. It also enables the Users to download the content.

We offer Users to

- Search from Wide-range of High-Quality Stock videos.
- Stream any Video at their preferred Resolution.
- Download videos.
- Manage their Activity such as Watch History, Search History and Download History.
- Contribute any Video Suggestions.

## **1.2. Motivation**

The Search Feature in most of the existing Video on Demand Platforms is not satisfactory. This spoils the overall User Experience. This was the primary motivation for us to develop a Video on Demand Platform with enhanced Search Feature and a better overall User Experience. We also wanted to learn how Video-on-demand Platforms work. So, we wanted to develop a Video-on-demand platform which is Powerful and User-friendly.

## **1.3. Problem Definition**

In most of the existing Video-on-demand Platforms, Users are constantly reporting about Inaccurate Search Results and finding it difficult to get their way around. So, this Project is developed with an Efficient Search Algorithm while also being User Friendly.

## **1.4. Objectives**

- To improve the search feature on existing VOD's.
- To create a user-friendly interface, to enable users to navigate through the application without any difficulty.
- To give user the ability to like, dislike, download a video.
- To display video statistics like, views, likes, dislikes, downloads, with real-time updating.
- To provide hassle-free direct downloads to user, without redirection to third party sites.

## **1.5. Scope**

Meta Stream is a Video-on-Demand Platform that enables people to stream High-Quality content. Users can download the content and add Videos to their Watch-list. Users can also choose from wide range of high-quality Stock videos of different Genre.

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# **Software Requirements Specification**

**for**

**Video-on-Demand Platform (Meta Stream)**

**Version 1.0 approved**

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# **1. Introduction**

## **1.1. Purpose**

The purpose of this document is to present a detailed description of the Open-Source Web Application, Video-on-Demand Platform “Meta Stream”. It will explain the purpose and features of the application, the interfaces, what the application will do and the constraints under which it must operate. This document is intended for users of the application and potential developers.

## **1.2. Document Conventions**

This Document was created based on the IEEE template for System Requirement Specification Documents.

## **1.3. Intended Audience and Reading Suggestions**

- Typical Users, who are looking for some Entertainment.
- Programmers who are interested in working on the project by further developing it or fix existing bugs.

## **1.4. Product Scope**

Meta Stream is a Video-on-Demand Platform that enables people to stream High-Quality content. Users can download the content and add Videos to their Watch-list. Users can also choose from wide range of high-quality Stock videos of different Genre.

## **1.5. References**

- [1]. <https://www.geeksforgeeks.org/web-technology/html-css/>
- [2]. <https://www.w3schools.com/>
- [3]. <https://www.w3.org/>

## 2. Overall Description

### 2.1. Product Perspective

Meta Stream was developed for anyone who is interested in watching High-Quality Videos. It is an open source project, and it has a very active developer team to support it and provide feedback to users. It offers cross-platform support.

### 2.2. Product Functions

#### 2.2.1. Admin Functions

##### 2.2.1.1. Login

<b>Use Case:</b>	Login
<b>Primary Actor:</b>	Admin
<b>Goal in Context:</b>	Managing the Web – Application
<b>Scenario:</b>	<ol style="list-style-type: none"><li>1. The system prompts the admin for their username and password.</li><li>2. The admin enters username and password.</li><li>3. The system gets password registered to the username.</li><li>4. The system verifies the password and sets the admin's authorization.</li><li>5. The admin is given access to the application to perform their job.</li></ol>

##### 2.2.1.2. Management Selection

<b>Use Case:</b>	Management Selection
<b>Primary Actor:</b>	Admin
<b>Goal in Context:</b>	Accessing to sub-menu
<b>Scenario:</b>	<ol style="list-style-type: none"><li>1. Admin selects between stream management and user management.</li></ol>

##### 2.2.1.3. Stream Management

<b>Use Case:</b>	Stream Management
<b>Primary Actor:</b>	Admin
<b>Goal in Context:</b>	Changing access rights of a stream

<b>Scenario:</b>	<ol style="list-style-type: none"> <li>1. The admin enters stream management interface.</li> <li>2. The admin selects the stream that he/she wants to manage.</li> <li>3. The admin changes the access rights of the stream on the menu.</li> <li>4. New access rights of the stream are set.</li> </ol>
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#### 2.2.1.4. Add Stream

<b>Use Case:</b>	Add Stream
<b>Primary Actor:</b>	Admin
<b>Goal in Context:</b>	Adding new stream to Media Server
<b>Scenario:</b>	<ol style="list-style-type: none"> <li>1. Admin clicks Add button in stream Management Window.</li> <li>2. Window asks for the configuration settings of stream.</li> <li>3. Admin enters the configuration settings.</li> <li>4. Admin clicks OK button.</li> <li>5. Stream is added to Stream List.</li> </ol>

#### 2.2.1.5. Remove Stream

<b>Use Case:</b>	Remove Stream
<b>Primary Actor:</b>	Admin
<b>Goal in Context:</b>	Removing stream from Media Server
<b>Scenario:</b>	<ol style="list-style-type: none"> <li>1. Admin chooses a stream from Stream list.</li> <li>2. Admin clicks Remove button.</li> <li>3. Stream is removed from Stream List</li> </ol>

#### 2.2.1.6. User Management

<b>Use Case:</b>	User Management
<b>Primary Actor:</b>	Admin
<b>Goal in Context:</b>	Changing access rights of a user
<b>Scenario:</b>	<ol style="list-style-type: none"> <li>1. The admin enters user management interface.</li> <li>2. The admin selects the user that he/she wants to manage from the user list.</li> <li>3. The admin changes the access rights of the user.</li> <li>4. New access rights of the user are set.</li> </ol>

#### **2.2.1.7. Add User**

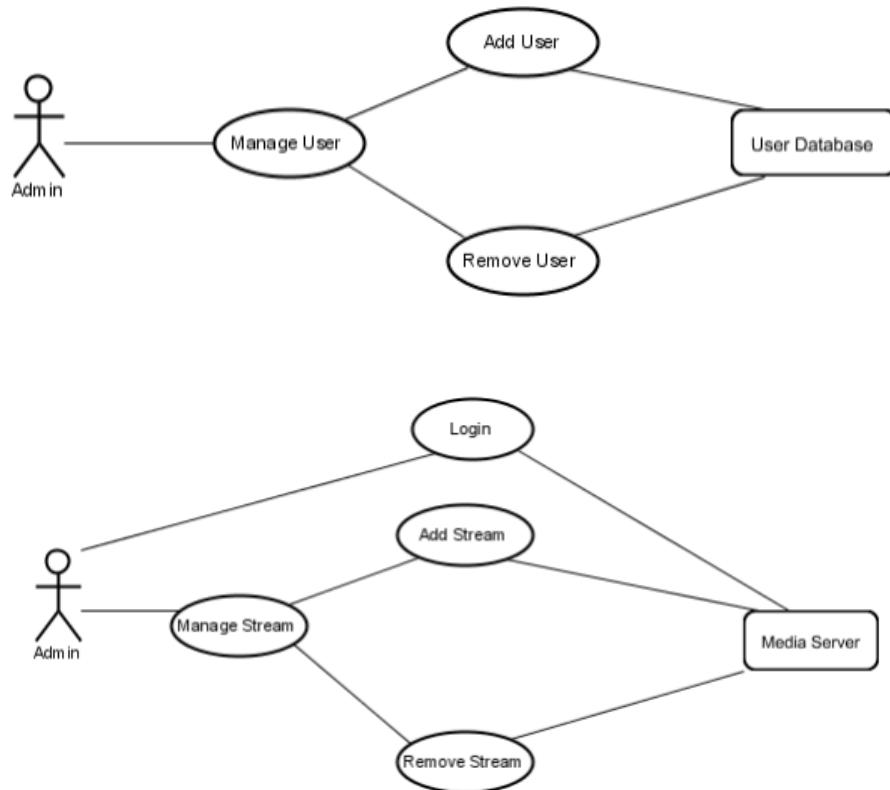
<b>Use Case:</b>	Add User
<b>Primary Actor:</b>	Admin
<b>Goal in Context:</b>	Adding new user to Relational Database
<b>Scenario:</b>	<ol style="list-style-type: none"><li>1. Admin clicks Add button in User Management Window.</li><li>2. Admin enters the user details.</li><li>3. Admin clicks OK button.</li><li>4. User is added to database.</li></ol>

#### **2.2.1.8. Remove User**

<b>Use Case:</b>	Remove User
<b>Primary Actor:</b>	Admin
<b>Goal in Context</b>	Removing user from Relational Database
<b>Scenario:</b>	<ol style="list-style-type: none"><li>1. Admin chooses a user from User list.</li><li>2. Admin clicks Remove button.</li><li>3. User is removed from User List</li></ol>

#### 2.2.1.9. Use-Case Diagrams

In these diagrams, ‘Add Stream’ and ‘Remove Stream’ use-cases are specific operations of ‘Manage Stream’. Similarly, ‘Add User’ and ‘Remove User’ use-cases are specific operations of ‘Manage User’.



## **2.2.2. User Functions**

### **2.2.2.1. Log in**

<b>Use Case:</b>	Login
<b>Primary Actor:</b>	User
<b>Goal in Context:</b>	Accessing to the system
<b>Scenario:</b>	<ol style="list-style-type: none"><li>1. The application prompts the user for their username and password.</li><li>2. The user enters username and password.</li><li>3. The application gets password registered to the username</li><li>4. The application verifies the password and sets the users authorization.</li><li>5. The user is given access to the application to perform their job.</li></ol>

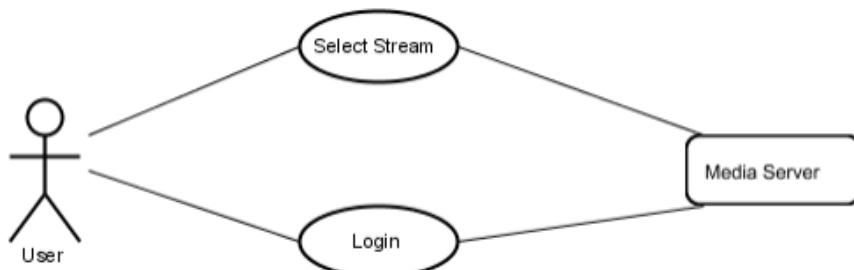
### **2.2.2.2. Stream Selection**

<b>Use Case:</b>	Stream selection
<b>Primary Actor:</b>	User
<b>Goal in Context:</b>	Selecting a stream to access
<b>Scenario:</b>	<ol style="list-style-type: none"><li>1. User logs into the application.</li><li>2. After login screen, user is provided a list of streams that she/he can use.</li><li>3. User selects a stream and data flow starts.</li></ol>

### **2.2.2.3. Media Player Functions**

<b>Use Case:</b>	Media player functions
<b>Primary Actor:</b>	User
<b>Goal in Context:</b>	Controlling playback
<b>Scenario-1:</b>	User presses play button to start data flow and play it.
<b>Scenario-2:</b>	User presses pause button to pause the stream at the current frame.
<b>Scenario-3</b>	User adjusts volume level from the volume bar.
<b>Scenario-4</b>	User adjusts Resolution of video dynamically during playback.

#### 2.2.2.4. Use-Case Diagrams



### 2.2.3. System Functions

#### 2.2.3.1. Load Check

<b>Use Case:</b>	Load Check
<b>Primary Actor:</b>	System Agent
<b>Goal in Context:</b>	Checking the load on web servers
<b>Scenario:</b>	<ol style="list-style-type: none"><li>1. Waits for a pre-determined time interval.</li><li>2. Checks the current load on each reverse proxy web server.</li><li>3. If a webserver serves more than a predetermined number of clients, an idle web server is activated.</li></ol>

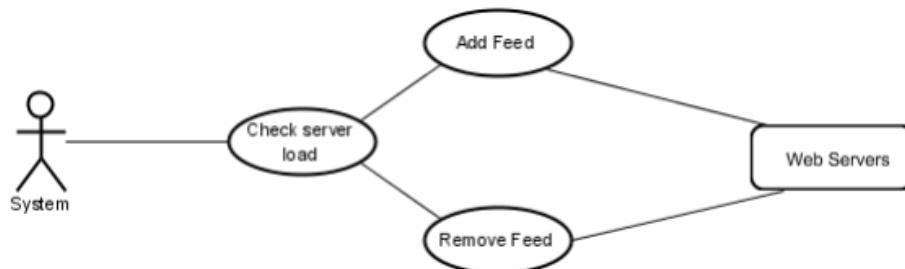
#### 2.2.3.2. Add Feed

<b>Use Case:</b>	Add Feed
<b>Primary Actor:</b>	System Agent
<b>Goal in Context:</b>	Activating an idle web server
<b>Scenario:</b>	<ol style="list-style-type: none"><li>1. Agent decides that a new web server is needed.</li><li>2. An idle web server is activated, and it starts to stream data to clients.</li></ol>

### 2.2.3.3. Remove Feed

Use Case:	Remove Feed
Primary Actor:	System Agent
Goal in Context	Stopping a web server
Scenario:	<ol style="list-style-type: none"><li>1. Agent decides that less active web servers are enough.</li><li>2. One web server stops streaming and its clients are distributed among other active servers.</li></ol>

### 2.2.3.4. Use-Case Diagrams



## 2.3. User Classes and Characteristics

- Typical Users, who are looking for some Entertainment.
- Programmers who are interested in working on the project by further developing it or fix existing bugs.

## 2.4. Operating Environment

- Operating System
  - 1. Windows
  - 2. Linux
- Application Server
  - 1. Apache Tomcat v9.0
- Media Server
  - 1. Google Cloud
- Database
  - 1. MySQL

## **2.5. Design and Implementation Constraints**

The Application uses modular design where every feature is wrapped into a separate module and the modules depend on each other through well-written APIs. There are several APIs available to make plugin development easy.

### **2.5.1. Frontend**

The Frontend is implemented using HTML, CSS and Java Script.

### **2.5.2. Backend**

#### **2.5.2.1. Backend Application**

The Backend consists of server-side application designed using Java/Python that serves requests of clients.

#### **2.5.2.2. Database**

Database used is MySQL. It is used for storing User Information and Content Information.

#### **2.5.2.3. Server**

Server used is Apache Tomcat v9.0

#### **2.5.2.4. Storage**

The application uses Google Cloud Storage to store media.

## **2.6. User Documentation**

Online help and FAQs are provided in the User Documentation

## **2.7. Assumptions and Dependencies**

- Media streams are working fine.
- Streams and server have enough bandwidth.
- System has low latency.
- Video processing and networking libraries are available on the system.

### **3. External Interface Requirements**

#### **3.1.1. Admin Interfaces**

##### **3.1.1.1. Login Window**

Admins should login to the application before using application management operations. This login window is the first thing the users face when they attempt to access the application. They shall be able to continue using the application upon entering a valid username and password.

##### **3.1.1.2. Management Selection Window**

Admins see management options which are Stream Management and User Management in this window.

##### **3.1.1.3. Stream Management Window**

This window lists available Stream feeds of the application. Admins can open dialogues for adding Streams to the application and removing them from the application using buttons on this window.

##### **3.1.1.4. Add Stream Window**

This window prompts admins to enter configuration options of target stream. After entering correct settings stream will be added to available stream feeds list.

##### **3.1.1.5. Remove Stream Window**

This window prompts admins to approve removing target stream.

##### **3.1.1.6. User Management Window**

Admins should be able to list all users with their access levels in this window. There should be options to adjust users' access levels.

##### **3.1.1.7. Add User Window**

Admins should be able to add new users in this window.

##### **3.1.1.8. Remove User Window**

Admins should be able to confirm or cancel user removal operation.

### **3.1.2. User Interfaces**

#### **3.1.2.1. Login Window**

Users should login to the application before listing the available Stream feeds and viewing them.

#### **3.1.2.2. Stream Selection Window**

Users display the Stream selection window after successful login. They see the list of available Stream feeds that they can view in this window.

#### **3.1.2.3. Media Player Window**

Users see media player window when they want to view a Stream feed. This window has a media player with play/pause, sound volume buttons.

### **3.2. Hardware Interfaces**

- Streaming in 1080P FHD**

Processor: **2.4Ghz** (dual core) or **3.5Ghz** (single Core) processor.

Graphics: Nvidia/ATi having bare minimum **256MB Video RAM** and **core clock 600Mhz**.

- Streaming in 2160P UHD**

Processor: **2.6Ghz** (dual core) or **4.0Ghz** (single Core) processor.

Graphics: Nvidia/ATi having bare minimum **512MB Video RAM** and **core clock 1.0Ghz**.

### **3.3. Software Interfaces**

- JavaScript must be enabled for browser playback.
- Popup and Ad-blockers can inhibit playback.
- Flash: 15 or higher.
- Browser: Internet Explorer 9.0 or later, Mozilla Firefox 17 or later, Google Chrome 36 or later, Safari 5.0 or later.

### **3.4. Communication Interfaces**

Our Application uses both streaming protocols and HTTP-based protocols. Streaming protocols like Real-Time Messaging Protocol (RTMP) enable speedy video delivery using dedicated streaming servers, whereas HTTP-based protocols rely on regular web servers to optimize the viewing experience and quickly scale.

## **4. System Features**

This section demonstrates Meta Stream's most prominent features and explains how they can be used.

### **4.1. Personalized Recommendations**

Based on previously watched videos, videos of the similar Genre are recommended to the users.

### **4.2. Enhance Search Results**

Users can filter search results based on several attributes such as Most Popular, Upload date, Rating etc.

### **4.3. User Reviews**

Users can rate and review the videos they watch. These reviews are publicly visible.

### **4.4. Downloadable Content**

Videos can be downloaded to the User's Local Machine in their preferred Resolution.

## **5. Other Nonfunctional Requirements**

### **5.1. Performance Requirements**

The Application requires a system with at least a 2400 MHz CPU and 256 MB of VRAM and core clock of 600Mhz. Performance depends on the quality of Video and as a result, the system requirements for videos with higher quality are more demanding.

### **5.2. Safety Requirements**

To ensure that no one of Meta Stream's users loses any data while using it (due to a crash or a bug of some kind) the developer team updates the Application regularly. There is a bug tracker available where users can report any bugs, they have encountered so that the developers can fix it in the next release.

### **5.3. Security Requirements**

Meta Stream does not have any security requirements and thus any type of user can use it without any additional privileges.

### **5.4. Software Quality Attributes**

Due to its well designed and easy to use interface it can be used by anyone without much skill. However, users must already have a basic knowledge of using a Web Browser.

### **5.5. Business Rules**

Sensitive information such as Name and Email will be private and will not be shared to 3<sup>rd</sup> party advertising companies. The Application is designed in such a way that the User Activity is not accessible by anyone (including the admin).

## **6. Other Requirements**

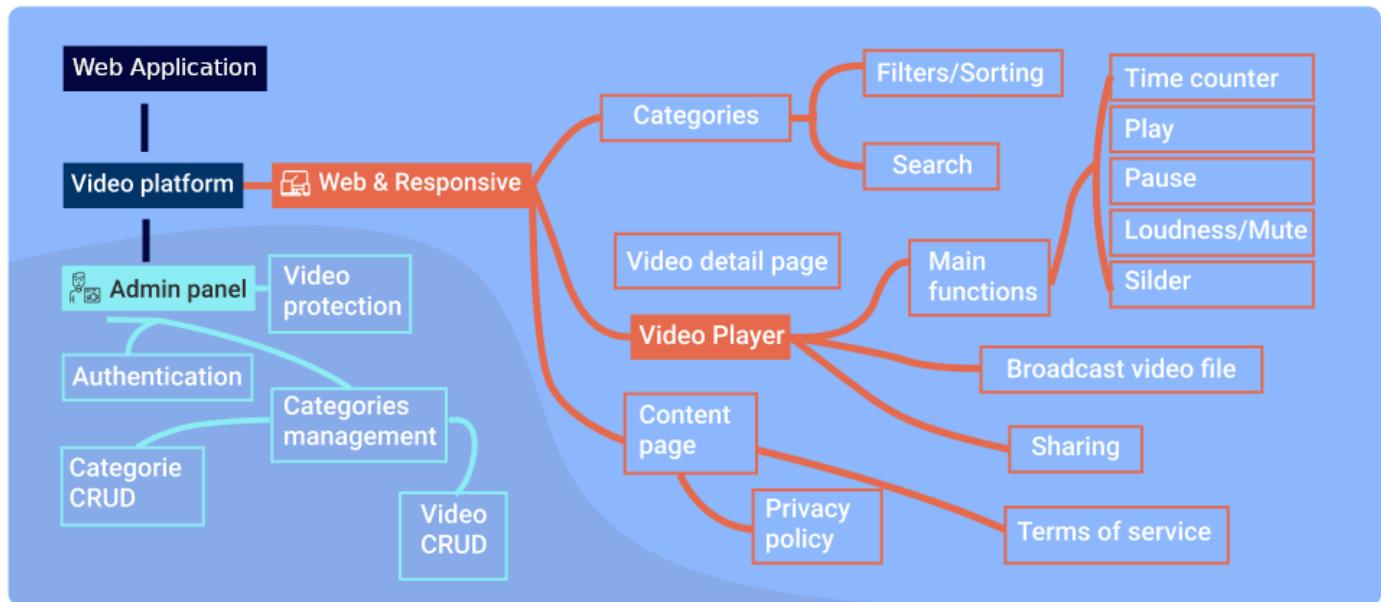
In order to get Seamless Streaming Experience, users require high-speed internet with a speed of 20 Mbps. As the videos are of high quality, they occupy significant storage space. So, before downloading them, users shall make sure there is enough local storage space.

### **Appendix A: Glossary**

- HTTP: Hypertext Transfer Protocol
- GHz: Giga Hertz
- MHz: Mega Hertz
- FHD: Full High-Definition
- UHD: Ultra High-Definition
- MB: Mega Byte
- Mbps: Mega bit per second
- RAM: Random access memory
- VRAM: Video RAM

## Appendix B: Analysis Models

- Data Flow Diagram



## Appendix C: To Be Determined List

1. We intend to add “Continue Watching” feature if possible.
2. We are looking to collaborate with Content Creators for paid content.
3. We are looking for adding Payment Integration to the Application.

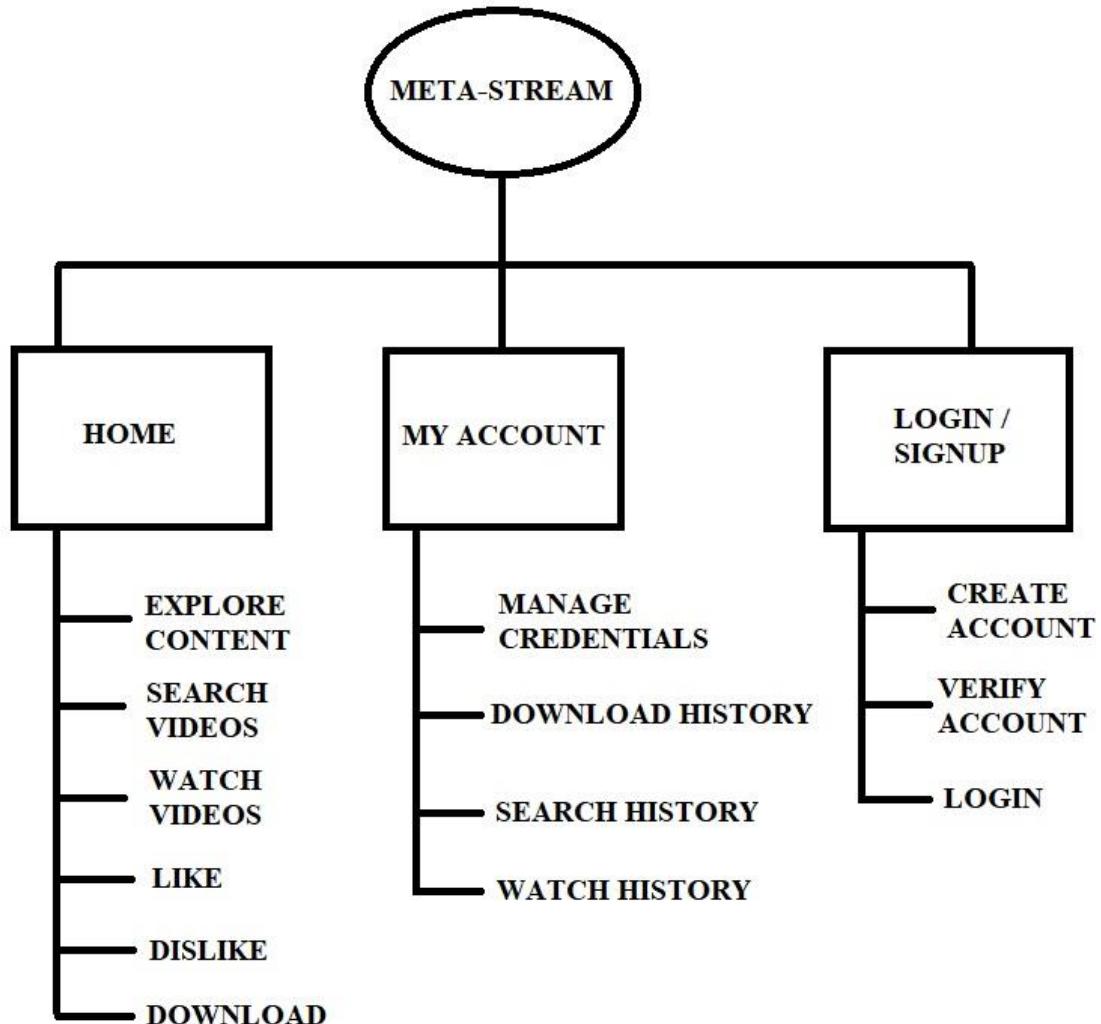
### **3. Activities**

The following list specifies User Activities while using our Application.

- User Registration: In order to use our Application, user must have an Account.
- User Login: To continue using the application, user must Log In.
- User Log out: User can log out of the application anytime.
- Watch a Video: User can select and watch any video from wide range of Stock Videos.
- Search a Video: User can Search any Video of his/her choice using the Search feature provided in the Application.
- Like or Dislike a Video: User can wish to Like or Dislike a Video.
- Download a Video: If User wants to save Videos Offline, he/she can download using the Download Feature.
- Manage Credentials: User can alter his/her Login Credentials anytime.
- Manage Activity: User can View or delete his/her Account Activity such as Watch History, Search History and Download History.
- Contribute: User can contribute Video Ideas or Suggestions and the Admin team will try to upload the Video at the earliest.

## 4. Implementation

### 4.1. Project Hierarchy



The above chart depicts the Project Hierarchy of Meta Stream. The same is the Hierarchy implemented at root folder from which the Server serves the files. These nodes consist of several other files such as HTML scripts, CSS stylesheets, JavaScript Files, PHP scripts etc., which constitute the Skeleton of Project.

By default, the server serves files from the node "Meta-Stream/home/". Navigation to other nodes is provided in the UI. For the website to be compatible to all major browsers, the Navigation is set to Relative.

## 4.2. The Google Drive API

The entire Video Content was uploaded to Google Drive, which offers 15 Gigabytes of free storage space, without altering the Quality of Content. Google Drive API was setup to retrieve the File Data using Node JS scripts. These Scripts are Generic but require two Important Credentials, namely the Drive API Key and the Client ID.

The files uploaded to the Cloud Storage follow certain Constraints, such as the Camel-case naming Convention and each Video file has its own Thumbnail which is also uploaded along with it. The following details of files should be retrieved for the application to work.

- **File ID:** File ID is the unique identity given to each file present in Cloud Storage. It is a String of Length 33. It can be used to retrieve several other attributes using backend Scripts. File ID is globally unique, which means, anyone with Necessary Permissions can access the file provided the File ID, without a Google Account.
- **File Name:** Each File in Drive has a file name associated with it. These are also retrieved so that they can be used in the Application while displaying the details of a Video.
- **Web View Link:** A link for opening the file in a relevant Google editor or viewer in a browser. It is the same link that is used in the Video Playback page which enables dynamic Video Playback supporting regular activities such as Play, Pause, Adjust Resolution etc.
- **Download Link:** It is an explicitly defined URL, which is obtained from the file ID and additional URL Header and Footer. For instance, the download URL of a file can be created using the File ID and the API Key, in the following way:

Download Link = Header + file id + Footer + API Key. Where  
Header = '<https://www.googleapis.com/drive/v3/files/>'  
Footer = '?alt=media&key='

The API Script is used only once, to create entries in database table from the information fetched. The following is the code typically one can use to accomplish it.

#### 4.2.1. Google Drive API using Node JS – Source code

```
const fs = require('fs');
const readline = require('readline');
const {google} = require('googleapis');
var mysql = require('mysql');
var con = mysql.createConnection({
  host: "localhost",
  user: "root",
  password: "",
  database: "videodatabase"
});
con.connect(function(err) {
  if (err) throw err;
  console.log("Connected!");
});

// If modifying these scopes, delete token.json.
const SCOPES = [
  'https://www.googleapis.com/auth/drive',
  'https://www.googleapis.com/auth/drive.appdata',
  'https://www.googleapis.com/auth/drive.file',
  'https://www.googleapis.com/auth/drive.metadata',
  'https://www.googleapis.com/auth/drive.metadata.readonly',
  'https://www.googleapis.com/auth/drive.photos.readonly',
  'https://www.googleapis.com/auth/drive.readonly',
];
// The file token.json stores the user's access and refresh tokens, and is
// created automatically when the authorization flow completes for the first
// time.
const TOKEN_PATH = 'token.json';

// Load client secrets from a local file.
fs.readFile('credentials.json', (err, content) => {
  if (err) return console.log('Error loading client secret file:', err);
  // Authorize a client with credentials, then call the Google Drive API.
  authorize(JSON.parse(content), listFiles);
});

/**
 * Create an OAuth2 client with the given credentials, and then execute the
 * given callback function.
 * @param {Object} credentials The authorization client credentials.
 * @param {function} callback The callback to call with the authorized client.
 */
function authorize(credentials, callback) {
  const {client_secret, client_id, redirect_uris} = credentials.installed;
  const oAuth2Client = new google.auth.OAuth2(
    client_id, client_secret, redirect_uris[0]);

  // Check if we have previously stored a token.
```

```

        fs.readFile(TOKEN_PATH, (err, token) => {
            if (err) return getAccessToken(oAuth2Client, callback);
            oAuth2Client.setCredentials(JSON.parse(token));
            callback(oAuth2Client);
        });
    }

    /**
     * Get and store new token after prompting for user authorization, and then
     * execute the given callback with the authorized OAuth2 client.
     * @param {google.auth.OAuth2} oAuth2Client The OAuth2 client to get token for
     *
     * @param {getEventsCallback} callback The callback for the authorized client.
     */
    function getAccessToken(oAuth2Client, callback) {
        const authUrl = oAuth2Client.generateAuthUrl({
            access_type: 'offline',
            scope: SCOPES,
        });
        console.log('Authorize this app by visiting this url:', authUrl);
        const rl = readline.createInterface({
            input: process.stdin,
            output: process.stdout,
        });
        rl.question('Enter the code from that page here: ', (code) => {
            rl.close();
            oAuth2Client.getToken(code, (err, token) => {
                if (err) return console.error('Error retrieving access token', err);
                oAuth2Client.setCredentials(token);
                // Store the token to disk for later program executions
                fs.writeFile(TOKEN_PATH, JSON.stringify(token), (err) => {
                    if (err) return console.error(err);
                    console.log('Token stored to', TOKEN_PATH);
                });
                callback(oAuth2Client);
            });
        });
    }

    /**
     * Lists the names and IDs of up to 10 files.
     * @param {google.auth.OAuth2} auth An authorized OAuth2 client.
     */
    function listFiles(auth) {
        const drive = google.drive({version: 'v3', auth});
        drive.files.list({
            pageSize: 1000,

```

```

        fields: 'nextPageToken, files(id, name, hasThumbnail, webViewLink, ico
nLink, videoMediaMetadata)',

        orderBy: 'name',
    }, (err, res) => {
        if (err) return console.log('The API returned an error: ' + err);
        const files = res.data.files;
        if (files.length) {
            var source = "https://drive.google.com/uc?export=view&id=";
            var videoPrefix = "https://drive.google.com/file/d/";
            var videoSuffix = "/preview";
            var fileName = "";
            var fileid = "";
            var ind = 0;
            var count = 0;
            var thumb = "";
            var views = 0;
            var downloads = 0;
            var likes = 0;
            var dislikes = 0;
            var videofileid = "";
            var API_key = "<YOUR_API_KEY>";
            var header = "https://www.googleapis.com/drive/v3/files/";
            var footer = "?alt=media&key=";
            var sql = "TRUNCATE TABLE video;";
            con.query(sql,function(err,result){
                if(err) throw err;
                console.log("Truncated");
            });
            files.map((file) => {
                var nameOfFile = file.name;
                if(nameOfFile.includes(".mp4")) {
                    fileName = file.name;
                    fileid = videoPrefix + file.id + videoSuffix;
                    videofileid = file.id;
                }
                else if(nameOfFile.includes("_thumb.png")) {
                    thumb = source + file.id;
                    var dlink = header + videofileid + footer + API_key;
                    var sql = "INSERT INTO video (filename, fileid, thumbnail, dow
nloadlink, views, downloads, likes, dislikes) VALUES ?";
                    var values = [[fileName, fileid, thumb, dlink, views, download
s, likes, dislikes]];
                    con.query(sql, [values], function (err, result) {
                        if (err) throw err;
                        count++;
                    });
                }
            });
        });
    });
}

```

```
    }
    else {
        console.log('No files found.');
    }
});
```

## 4.3 CREATING TABLES OF CATEGORIES AND KEYWORDS IN VIDEO DATABASE.

In our application, each Video has additional attributes namely Category and Keywords. These attributes are entered into the Server database by Admin using Node JS scripts.

### 4.3.1. Node JS script for inserting into Categories table.

```
var Nature = [2,3,14,33,47,48,49,58,68,91,93];
var Animal = [6,11,12,19,20,21,22,37,38,39,42,43,44,53,54,59,72,73,74,81,83,84
,85,96,97];
var Technology = [23,25,29,35,62,64,65,66,71,77,90,95];
var Architecture = [1,4,9,13,15,16,17,26,27,55,75,89,100];
var landscape = [7,8,30,34,46,57,67,70,78,79,80,86,94];
var Others = [5, 10, 18, 24, 28, 31, 32, 36, 40, 41, 45, 50, 51, 52, 56, 60, 6
1, 63, 69, 76, 82, 87, 88, 92, 98, 99];
// Above is entered Manually by Admin.
var mysql = require('mysql');
var con = mysql.createConnection({
  host: "localhost",
  user: "root",
  password: "",
  database: "videodatabase"
});
con.connect(function(err) {
  if (err) throw err;
  console.log("Connected!");
});
var sql = "TRUNCATE TABLE category;";
con.query(sql,function(err,result) {
  if(err) throw err;
  console.log("Truncated");
})
var id = 1;
for(var i = 0; i< Nature.length;i++) {
  var sql = "INSERT INTO category (id, videoid, category) VALUES ?";
  var values = [[id,Nature[i],"nature"]];
  con.query(sql, [values], function (err, result) {
    if (err) throw err;
  });
  id++;
}
for(var i=0;i<Architecture.length;i++) {
  var sql = "INSERT INTO category (id, videoid, category) VALUES ?";
  var values = [[id,Architecture[i],"architecture"]];
  con.query(sql, [values], function (err, result) {
    if (err) throw err;
  });
}
```

```

        id++;
    }
    for(var i =0; i<Animal.length;i++) {
        var sql = "INSERT INTO category (id, videoid, category) VALUES ?";
        var values = [[id,Animal[i],"animal"]];
        con.query(sql, [values], function (err, result) {
            if (err) throw err;
        });
        id++;
    }
    for(var i =0 ;i<Technology.length;i++) {
        var sql = "INSERT INTO category (id, videoid, category) VALUES ?";
        var values = [[id,Technology[i],"technology"]];
        con.query(sql, [values], function (err, result) {
            if (err) throw err;
        });
        id++;
    }
    for(var i =0;i<landscape.length;i++) {
        var sql = "INSERT INTO category (id, videoid, category) VALUES ?";
        var values = [[id,landscape[i],"landscape"]];
        con.query(sql, [values], function (err, result) {
            if (err) throw err;
        });
        id++;
    }
    for(var i =0;i<Others.length;i++) {
        var sql = "INSERT INTO category (id, videoid, category) VALUES ?";
        var values = [[id,Others[i],"others"]];
        con.query(sql, [values], function (err, result) {
            if (err) throw err;
        });
        id++;
    }
}

```

#### 4.3.2. Node JS script for inserting into Keywords table.

```
var mysql = require('mysql');
var con = mysql.createConnection({
  host: "localhost",
  user: "root",
  password: "",
  database: "videodatabase"
});
con.connect(function(err) {
  if (err) throw err;
  console.log("Connected!");
});
var arr = [['aerial','city','drone','building','buildings','top','view','urban'],
['aerial','crops','crop','fields','agriculture'],
['aerial','crops','crop','fields','agriculture'],
['aerial','city','drone','building','buildings','top','view','urban'],
['aeroplane','airplane','landing','airport','runway'],
['animal','fauna','meerkat','wildlife','life','wild','animals'],
['sea','beach','sand','aerial','water','ocean'],
['sea','beach','sand','aerial','water','ocean','coconut','tree'],
['animation','animated','bigben','ben','big','moon','time','lapse'],
['street','bike','ride','motor','cycle'],
['bird','birds','eating','nuts','animal','animals'],
['bird','sparrow','stream','puddle','drink','birds','animal','animals'],
['architecture','bridge','water','landscape'],
['flower','bud','leaf','blossom','time','lapse','flowers'],
['buddha','golden','gold','idol','god','buddhism'],
['buddha','golden','gold','idol','god','buddhism','sleeping','aerial','view'],
['buddha','golden','gold','idol','god','buddhism','sleeping','mountain'],
['ammunition','ammo','bullets','gun','pistol','guns','bullet'],
['animal','cat','cats','animals'],
['animal','cat','cats','tree','curios','animals'],
['animal','cat','cats','animals'],
['animal','cat','cats','animals'],
['code','monitor','javascript','java','html','coding','programming'],
['coffee','cup','pour','pouring','cups'],
['coffee','cup','pour','pouring','machine','vending','cups'],
['construction','machine','labour','crane'],
['construction','labour','machine','aerial','top','view'],
['cosmos','plasma','graphics','visual','effect','effects','graphic'],
['stopwatch','watch','ten','seconds','digital','time','second'],
['beach','couple','coconut','tree','trees','sea','water','walk'],
['cruise','ship','military','water'],
['boy','cycling','road','street','city'],
['dandelion','blossom','flower','bud','time','lapse','flowers'],
['desert','landscape','sand','earth']]
```

```

['digital', 'technology', 'draw', 'drawing', 'sketching', 'apple'],
['stunt', 'dirt', 'bike', 'aerial', 'view', 'drone'],
['dog', 'play', 'catch', 'ball', 'river', 'fun', 'animal', 'dogs', 'animals'],
['dog', 'play', 'animal', 'ball', 'dogs', 'animals'],
['dog', 'slow', 'motion', 'dogs'],
['earth', 'space', 'sun', 'india', 'planet', 'solar', 'system', 'celestial'],
['coffee', 'filter', 'pour'],
['aquarium', 'fish', 'fishes', 'water', 'animal', 'animals'],
['fish', 'aquatic', 'life', 'fishes', 'water', 'animals', 'animal'],
['fishes', 'ocean', 'sea', 'water', 'fish', 'under', 'animal', 'animals'],
['aerial', 'water', 'fly', 'view', 'river', 'lake'],
['fog', 'foggy', 'island', 'nature'],
['forest', 'wood', 'nature', 'tree', 'trees', 'woods'],
['couple', 'cycle', 'cycling', 'friend'],
['couple', 'cycle', 'cycling', 'friend'],
['glacier', 'train', 'express', 'aerial', 'view', 'transport'],
['gym', 'workout', 'work', 'exercise', 'exercize', 'trainer', 'weight', 'dumbbell'],
['time', 'hour', 'glass', 'hourglass', 'sand', 'bliss', 'stopwatch', 'watch'],
['humming', 'bird', 'fauna', 'fly', 'animal', 'animals'],
['humming', 'bird', 'slow', 'motion', 'slowmotion', 'flower', 'nectar', 'animal', 'animals'],
['intersection', 'aerial', 'view', 'road', 'city', 'buildings', 'urban'],
['race', 'kartracers', 'racers', 'racer', 'kart', 'track', 'racing'],
['lake', 'water', 'float'],
['leaves', 'wind'],
['fishes', 'lionfish', 'lion', 'aquarium', 'water', 'aqua', 'fish', 'animal', 'animals'],
['pistol', 'gun', 'load', 'bullets', 'bullet', 'arms', 'ammunition', 'ammo', 'guns'],
['london', 'tourism', 'bridge', 'tour', 'world', 'visit'],
['macro', 'gears', 'technology', 'clock', 'watch'],
['paper', 'draw', 'drawing', 'color', 'sketch', 'portrait'],
['matrix', 'animation', 'digital', 'green', 'text', 'code'],
['meeting', 'meetings', 'office', 'work', 'laptop', 'discussion', 'discuss', 'discussing'],
['mother', 'board', 'circuit', 'capacitor', 'chip', 'technology', 'chips', 'circuits'],
['mountains', 'clouds', 'nature', 'fog', 'hills', 'mountain'],
['wood', 'woods', 'forest', 'tour', 'walk', 'forests', 'trees', 'tree'],
['painting', 'brush', 'color', 'portrait', 'canvas'],
['peninsula', 'nature', 'sunset', 'sun', 'landscape', 'landscapes'],
['photo', 'studio', 'camera', 'capture', 'snap', 'photoshoot', 'shoot'],
['play', 'playing', 'dog', 'woman', 'happy', 'funny', 'animal', 'dogs', 'animals'],
['puppy', 'dog', 'beach', 'play', 'animal', 'dogs', 'animals'],
['mirror', 'puppy', 'dog', 'play', 'playing', 'funny', 'dogs', 'animal', 'animals'],
['pyramids', 'pyramid', 'egypt', 'landscape', 'landscapes'],
['cam', 'camera', 'dashcam', 'rear', 'footage', 'car', 'travel', 'city'],
['technology', 'research', 'chemicals', 'experiment', 'conical', 'flask'],
['landscape', 'canyon', 'river', 'landscapes'],

```

```

['landscape','river','cliff','hill','mountain','waterfall','waterfalls','landscapes'],
['sea','waves','water','ocean'],
['seal','beach','animal','aquatic','marine','wildlife','animals'],
['pencil','sketch','draw','canvas','sketching','drawing','painting'],
['snail','small','tiny','slow','life','animals','animal'],
['snail','small','tiny','slow','animals','life','animal'],
['snake','animal','bush','snakes','plant','animals','animal'],
['landscape','mountain','snow','ice','glacier','landscapes'],
['space','shuttle','technology','science','rocket','launch','research','apollo',
',spacecraft','mission'],
['sea','surf','surfers','waves'],
['temple','devotion','devotional','sacred','temples'],
['timer','minute','one','seconds','second','sixty','60','digital','stopwatch',
,'1'],
['tornado','nature','wind','calamity','calamities','disaster','natural'],
['city','traffic','light','road','night','roads'],
['car','vintage','forest','woods','journey','forests','trees','trip','tour'],
['waterfalls','water','fall','mountain','nature','landscape'],
['digital','welcome','hologram','graphics','technology','visual','effects'],
['white','tiger','whitetiger','animal','animals'],
['woman','carry','dog','animal','animals'],
['painting','paint','canvas','drawing','draw','art'],
['labour','machine','work','cutting','saw','cut','machines'],
['aerial','building','working','site','construction','view']
];
var sql = "TRUNCATE TABLE keywords;";
con.query(sql,function(err,result){
    if(err) throw err;
    console.log("Truncated");
    console.log("Now Inserting");
})
var id = 1;
for(var i=0;i<100;i++) {
    for(var j=0;j<arr[i].length;j++,id++) {
        var sql = "INSERT INTO keywords (id, videoid, keyword) VALUES ?";
        var values = [[id,i+1,arr[i][j]]];
        con.query(sql, [values], function (err, result) {
            if (err) throw err;
        });
    }
}

```

## 4.4. THE USER DATABASE

### 4.4.1. THE ‘USERS’ TABLE

#### 4.4.1.1. TABLE SCHEMA

ID	FULLNAME	EMAIL	PASSWORD
1	JOHN	<a href="mailto:john321@gmail.com">john321@gmail.com</a>	\$2y\$10\$WCOtyp4uIkTYk
2	JOSEPH	<a href="mailto:joseph123@gmail.com">joseph123@gmail.com</a>	\$2y\$10\$0l8hpbwyW9Xmi

The USERS table consists of four Columns

**ID:** Unsigned Integer, Auto Increment, Primary Key, Not Null

**FULLNAME:** varchar(64), Not Null

**EMAIL:** varchar(64), Not Null

**PASSWORD:** varchar(300), Not Null, Hashed using PHP Hash.

An entry is automatically created in the USERS table once a User creates an Account. The Password is hashed using One-way hashing function provided in PHP. Thus, making it impossible for Admin to view any User’s password.

### 4.4.2. USER ACTIVITY TABLES

Along with an entry in Users table, the application creates four more tables Exclusively for the user. These tables are private to specific user that store every activity of user. The four tables created are:

#### 4.4.2.1. WATCH HISTORY

ID	VIDEOID	TS
1	15	2020-12-11 21:20:48
2	78	2020-12-16 21:27:41

The WATCH HISTORY table consists of three Columns.

**ID:** Unsigned Integer(6), Auto Increment, Primary Key, Not Null

**VIDEOID:** Integer(6)

**TS:** Timestamp, Not Null, default: current\_timestamp()

An entry is automatically created in the WATCH HISTORY table once a User watches a video. The Video ID and time at which the user watched the video will be retrieved and inserted into the table.

#### **4.4.2.2. SEARCH HISTORY**

ID	SEARCH QUERY	TS
1	cats	2020-12-13 19:22:46
2	water falls	2020-12-13 19:23:31

The SEARCH HISTORY table consists of three Columns.

**ID:** Unsigned Integer(6), Auto Increment, Primary Key, Not Null

**SEARCH QUERY:** varchar(200)

**TS:** Timestamp, Not Null, default: current\_timestamp()

An entry is automatically created in the SEARCH HISTORY table once a User searches for a video. The search query and time at which the user searched will be retrieved and inserted into the table.

#### **4.4.2.3. DOWNLOAD HISTORY**

ID	VIDEOID	TS
1	15	2020-12-11 21:20:48
2	78	2020-12-16 21:27:41

The DOWNLOAD HISTORY table consists of three Columns.

**ID:** Unsigned Integer(6), Auto Increment, Primary Key, Not Null

**VIDEOID:** Integer(6)

**TS:** Timestamp, Not Null, default: current\_timestamp()

An entry is automatically created in the DOWNLOAD HISTORY table once a User downloads a video. The Video ID and time at which the user downloaded the video will be retrieved and inserted into the table.

#### 4.4.2.4. LIKE HISTORY

ID	VIDEOID	STATUS
1	15	DISLIKED
2	78	LIKED
3	17	NONE

The DOWNLOAD HISTORY table consists of three Columns.

**ID:** Unsigned Integer(6), Auto Increment, Primary Key, Not Null

**VIDEOID:** Integer(6)

**STATUS:** varchar(20) (LIKED or DISLIKED or NONE)

Whenever a user clicks a like or a dislike button, the application checks if there are any existing entries in the table corresponding to the video. If present, then the status will be updated Correspondingly. Otherwise, an Entry is created in the Like History table.

## **4.5. USER REGISTRATION**

User registration consists of two steps. In step 1, the user enters his/her personal information like Name, Email Address and Password. These are validated accordingly so that the credentials are secure. In step 2, a 6 Digit verification code will be sent to User's Email. User will have to enter the 6 Digit Code to verify his/her Email address. On successful verification, the user account is created and the four exclusive tables will be created instantly.

## **4.6. USER LOGIN**

User has to Login in order to use the application. User has to enter his/her credentials and these are verified from the details provided during the registration. Upon successful verification users can login and continue using the application.

If the user forgets his/her password, we allow them to reset their password by sending verification code to their corresponding Email Address.

## **4.7. THE SEARCH FEATURE**

The Search Feature is the best part of our Application. The Search works extremely fast and gives accurate results.

### **4.7.1. THE SEARCH ALGORITHM**

The algorithm splits the Query String into individual words. Then the algorithm searches each of them in the Keywords database and returns the closest matches. This algorithm ensures that there are no duplicates in the search results. The keywords in the beginning of search query are given more preference than the later ones and hence appear in the beginning of the results.

## **4.8. VIDEO PLAYBACK**

Video Playback offers user control such as

- a). Dynamically Adjust Resolution
- b). Draggable Seek Bar
- c). Pause/Play video
- d). Adjust Volume
- e). Dynamically adjust Playback speed.
- f). Toggle Full Screen view and Default view.
- g). Watch in Mini Player.

## **4.9. MANAGE ACCOUNT**

With this feature, we offer user to manage his/her Activity and Credentials. The user can view and delete his/her Activity. We offer the user to manage the following.

### **4.9.1. CREDENTIALS**

The user can edit his/her credentials such as Name, Email Address and Password. Upon user's request, the database gets updated with new Credentials upon successful validation.

### **4.9.2. WATCH HISTORY**

Watch history previews the User activity, specifically, the list of Watched Videos with the timestamps. Users can view/delete specific items in the watch history. The deleted items will be removed from the database.

### **4.9.3. SEARCH HISTORY**

Search history previews the User activity, specifically, the list of Searched Queries with the timestamps. Users can view/delete specific items in the search history. The deleted items will be removed from the database.

### **4.9.4. DOWNLOAD HISTORY**

Download history previews the User activity, specifically, the list of Downloaded Videos with the timestamps. Users can view/delete specific items in the Download history. The deleted items will be removed from the database.

## 5. Code

### 5.1. Index.php

This page features Carousels with thumbnails of videos belonging to different categories, Navigation bar with references to Login/Logout and My Account, Footer with references to Social media pages, Contribute page and About developers.

```
<?php
    session_start();
    $host="localhost";
    $dbUsername="root";
    $dbPassword="";
    $index = 0;
    $dbname="videodatabase";
    $thumbnail = array();
    $videolink = array();
    $keywords = array();

    $nature = array();
    $architecture = array();
    $animal = array();
    $others = array();
    $technology = array();
    $landscape = array();

$conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);
if(mysqli_connect_error()) {
    echo "Connection Error";
    die('Connect Error('.mysqli_connect_errno().')'.mysqli_connect_error());
}
else {
    $sql = "select * from category";
    $result = $conn->query($sql);
    if (mysqli_num_rows($result) > 0) {
        while($row = mysqli_fetch_assoc($result)) {
            if($row["category"]=="animal") {
                array_push($animal,$row["videoid"]);
            }
            if($row["category"]=="nature") {
                array_push($nature,$row["videoid"]);
            }
            if($row["category"]=="architecture") {
                array_push($architecture,$row["videoid"]);
            }
        }
    }
}
```

```

        if($row["category"]=="technology") {
            array_push($technology,$row["videoid"]);
        }
        if($row["category"]=="landscape") {
            array_push($landscape,$row["videoid"]);
        }
        if($row["category"]=="others") {
            array_push($others,$row["videoid"]);
        }
    }
}

$id = 1;
$sql = "select * from video";
$result = $conn->query($sql);
$limit = mysqli_num_rows($result);
while($id<=$limit) {
    $sql = "select thumbnail from video where id = ".$id;
    $result = $conn->query($sql);
    if (mysqli_num_rows($result) > 0) {
        while($row = mysqli_fetch_assoc($result)) {
            array_push($thumbnail,$row["thumbnail"]);
        }
    } else {
        echo "0 results";
    }
    $sql = "select fileid from video where id = ".$id;
    $result = $conn->query($sql);
    if (mysqli_num_rows($result) > 0) {
        while($row = mysqli_fetch_assoc($result)) {
            array_push($videolink,$row["fileid"]);
        }
    }
    else {
        echo "0 results";
    }
    $id++;
}
$id = 1;
$ind = 0;
$sql = "select * from keywords";
$result = $conn->query($sql);
$limit = mysqli_num_rows($result);
while($id<=$limit) {
    $sql = "select * from keywords where id = ".$id;
    $result = $conn->query($sql);
    if (mysqli_num_rows($result) > 0) {
        while($row = mysqli_fetch_assoc($result)) {

```

```

        array_push($keywords, array($row["videoid"], $row["keyword"])
));
    }
}
$id++;
}
$conn->close();
}
?>
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<link rel="apple-touch-icon" sizes="180x180" href="apple-touch-icon.png">
<link rel="icon" type="image/png" sizes="32x32" href="favicon-32x32.png">
<link rel="icon" type="image/png" sizes="16x16" href="favicon-16x16.png">
<link rel="manifest" href="site.webmanifest">
<link rel="mask-icon" href="safari-pinned-tab.svg" color="#de2222">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="theme-color" content="#ffffff">
<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/font-awesome/4.7.0/css/font-awesome.min.css">
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/bootstrap-social/5.1.1/bootstrap-social.min.css">
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js"></script>
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/js/bootstrap.min.js"></script>
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/slick-carousel/1.8.1/slick.min.css">
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/slick-carousel/1.8.1/slick-theme.min.css">
<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
<link rel="stylesheet" href="style.css">
<title>Meta Stream</title>
</head>
<body>
<div id="showcaseTop" class="showcase-top" oncontextmenu="return false" >
    <a oncontextmenu="return false" href="index.php"></a>
    <div id="search">
        <form>
            <input type="text" id="search-input" name="search" autocomplete="off">

```

```

                <a href="#" onclick="fetch_keywords()"><i class="fa fa-
search fa-xs" id="search-icon"></i></a>
            </form>
        </div>
        <button id="userlogin" oncontextmenu="return false" onclick="hideShowc
ase()" data-toggle="modal" data-
target="#loginModel" alt="Sign In">Sign In</button>
        <button id="userlogout" oncontextmenu="return false" onclick="signOut(
)" alt="Sign Out">Sign Out</button>
        <a id="myaccount" href="../myaccount/dashboard.php"><img id="avatar" s
rc="avatar.png" alt=""></a>
    </div>
    <div id="loginModel" class="modal fade" role="dialog">
        <div class="modal-dialog modal-lg" role="content">
            <div class="modal-content" style="background-color: black;">
                <div class="login-box">
                    <h1>Sign In </h1>
                    <form action="../signup/userlogin.php" method="POST">
                        <p>Email</p>
                        <input type="text" name="email" placeholder="Enter Ema
il" required>
                        <p>Password</p>
                        <input type="password" name="password" placeholder="En
ter Password" required>
                        <input type="submit" name="submit" value="Sign In">
                    <div id="invalid"></div>
                    <a href="passwordreset.html">Forgot Password?</a><br>
                    <a href="../signup/signup.php">Don't have an Account?
                    Sign Up</a>
                </form>
            </div>
        </div>
    </div>
    <div id="showcaseContent" class="showcase-
content" oncontextmenu="return false" >
        <h1>
            Stream High Quality Content
        </h1>
        <p>
            Hassle free Downloads. Cross-platform support
        </p>
        <a id="createAccount" onclick="showCarousel()" href="../signup/signup.
php" class="btn btn-xl">Get Started </a>
    </div>
    <div id="freespace" class="free-space"></div>
    <div id="explore"></div>
    <div id="container1" class="container">

```

```

<h1>Nature</h1>
<div class="logo-slider">
    <?php
        for($index = 0;$index< sizeof($nature);$index++) {
            echo "<div class=\"item\"><a href=\"videoplayback.php?\".$n
ature[$index].\"><img src=\"\".$thumbnail[$nature[$index]-1]." alt=\"\"></a></div>\n\t\t\t";
        }
    ?>
</div>
<div id="container2" class="container">
    <h1>Animal</h1>
    <div class="logo-slider">
        <?php
            for($index = 0;$index< sizeof($animal);$index++) {
                echo "<div class=\"item\"><a href=\"videoplayback.php?\".$a
nimal[$index].\"><img src=\"\".$thumbnail[$animal[$index]-1]." alt=\"\"></a></div>\n\t\t\t";
            }
        ?>
</div>
</div>
<div id="container3" class="container">
    <h1>Architecture</h1>
    <div class="logo-slider">
        <?php
            for($index = 0;$index < sizeof($architecture);$index++) {
                echo "<div class=\"item\"><a href=\"videoplayback.php?\".$a
rchitecture[$index].\"><img src=\"\".$thumbnail[$architecture[$index]-1]." alt=\"\"></a></div>\n\t\t\t";
            }
        ?>
</div>
</div>
<div id="container4" class="container">
    <h1>Landscapes</h1>
    <div class="logo-slider">
        <?php
            for($index = 0;$index < sizeof($landscape);$index++) {
                echo "<div class=\"item\"><a href=\"videoplayback.php?\".$l
andscape[$index].\"><img src=\"\".$thumbnail[$landscape[$index]-1]." alt=\"\"></a></div>\n\t\t\t";
            }
        ?>
</div>
</div>
<div id="container5" class="container">

```

```

<h1>Technology</h1>
<div class="logo-slider">
    <?php
        for($index = 0;$index < sizeof($technology);$index++) {
            echo "<div class=\"item\"><a href=\"videoplayback.php?\".$t
echnology[$index].\"><img src=\"".$thumbnail[$technology[$index]-1]."\" alt=\"\"></a></div>\n\t\t\t";
        }
    ?>
</div>
<div id="container6" class="container">
    <h1>Other Stock Videos</h1>
    <div class="logo-slider">
        <?php
            for($index = 0;$index < sizeof($others);$index++) {
                echo "<div class=\"item\"><a href=\"videoplayback.php?\".$o
thers[$index].\"><img src=\"".$thumbnail[$others[$index]-1]."\" alt=\"\"></a></div>\n\t\t\t";
            }
        ?>
</div>
</div>
<footer id="footer">
    <div id="connect">
        <p>Connect with us</p>
        <a href="https://www.facebook.com/metastreamadmin/" target="_blank
"></a>
        <button id="contribute"><i class="fa fa-handshake-o fa-lg" aria-
hidden="true"></i><a target="_blank" href="https://forms.gle/bhFKAbc1AEkBtntB6
"> Contribute</a></button>
        <p id="rights">@Meta-Stream, All Rights Reserved</p>
    </div>
    <div id="aboutDevelopers">
        <h3>
            About Developers
        </h3>
        <a target="_blank" href="https://github.com/ChitturiSaiSuman">Chit
turi Sai Suman</a><br>
        <a target="_blank" href="https://github.com/300-
iq">Praneeth Kapila</a>
    </div>
</footer>
<script src="https://cdnjs.cloudflare.com/ajax/libs/slick-
carousel/1.8.1/slick.min.js"></script>
<script>
$(document).ready(function() {

```

```

        var email = "<?php if(isset($_SESSION['email'])) echo $_SESSION['e
mail']; else echo 'null'?>";
        if(email != 'null') {
            document.getElementById("userlogin").style.visibility = 'hidde
n';
            document.getElementById("userlogout").style.visibility = 'visi
ble';
            document.getElementById("createAccount").innerHTML = "Explore
";
            document.getElementById("createAccount").href = "#explore";
            document.getElementById("search").style.visibility = 'visible'
;
            document.getElementById("myaccount").style.visibility = 'visib
le';
        }
        else {
            document.getElementById("userlogin").style.visibility = 'visib
le';
            document.getElementById("userlogout").style.visibility = 'hidd
en';
            document.getElementById("createAccount").style.visibility = "v
isible";
            document.getElementById("createAccount").innerHTML = "Get Star
ted >";
            document.getElementById("createAccount").href = "../signup/sig
nup.php";
            localStorage["pagescroll"] = "disabled";
        }
        for(var i=1;i<=6;i++) {
            document.getElementById("container"+i).style.visibility = "hid
den";
        }
        function alignModal(){
            var modalDialog = $(this).find(".modal-dialog");
            modalDialog.css("margin-
top", Math.max(0, $(window).height() - modalDialog.height()) / 2));
        }
        $(".modal").on("shown.bs.modal", alignModal);
        $(window).on("resize", function(){
            $(".modal:visible").each(alignModal);
        });
        if(localStorage["pagescroll"]=="enabled") {
            $("body").css("overflow", "scroll");
            for(var i=1;i<=6;i++) {
                document.getElementById("container"+i).style.visibility =
"visible";
            }
        }
    }

```

```

        if(localStorage["previewLogin"]=="true") {
            document.getElementById("userlogin").click();
        }
        localStorage["previewLogin"] = "false";
        localStorage["searchExpanded"] = "false";
        var invalidLogin = <?php if(isset($_SESSION["invalidLogin"])) echo
$_SESSION["invalidLogin"]; else echo "false"?>;
        if(invalidLogin && localStorage["invalidLogin"]=="true") {
            localStorage["invalidLogin"] = "true";
            document.getElementById("invalid").innerText = "Invalid Username or Password";
            document.getElementById("userlogin").click();
        }
        else {
            localStorage["invalidLogin"] = "false";
            document.getElementById("invalid").innerText = "";
        }
    });
    $('.logo-slider').slick({
        slidesToShow: 5,
        slidesToScroll: 1,
        arrow: true,
        infinite: true,
        responsive: [
            {
                breakpoint: 1024,
                settings: {
                    slidesToShow: 4,
                    slidesToScroll: 1,
                    infinite: true,
                }
            },
            {
                breakpoint: 600,
                settings: {
                    slidesToShow: 3,
                    slidesToScroll: 1,
                    infinite: true,
                }
            },
            {
                breakpoint: 480,
                settings: {
                    slidesToShow: 1,
                    slidesToScroll: 1,
                    infinite: true,
                }
            }
        ]
    });

```

```

        ]
    });
    function signOut() {
        window.location.href='http://localhost/Meta-
Stream/home/logout.php';
        localStorage["pagescroll"] = "disabled";
    }
    const body = document.querySelector('body');
    const searchBtn = document.querySelector('#search');
    const searchInput = document.querySelector('#search-input');
    let active = false;

    body.addEventListener('click', (e) => {
        if(e.target.id === 'search' || e.target.id === 'search-
input' || e.target.id === 'search-icon') {
            if(!active) {
                searchBtn.classList.add('active');
                searchInput.classList.add('active');
                active = true;
            }
        }
        else {
            searchBtn.classList.remove('active');
            searchInput.classList.remove('active');
            searchInput.value = '';
            active = false;
        }
    });
    window.addEventListener('keydown',function(e){if(e.keyIdentifier=='U+0
00A'||e.keyIdentifier=='Enter'||e.keyCode==13) {
        if(e.target.nodeName=='INPUT'&&e.target.type=='text') {
            e.preventDefault();
            fetch_keywords();
        }
    }
},true);
function fetch_keywords() {
    if(localStorage["searchExpanded"] == "false") {
        localStorage["searchExpanded"] = "true";
        return;
    }
    if(document.getElementById("search-input").value=="") {
        return;
    }
    var keywords = (document.getElementById("search-
input").value).split(" ");
    var p = "searchdb.php?query=";
    var i;
}

```

```

        for(i=0;i<keywords.length-1;i++)
        {
            p+=keywords[i].toLowerCase();
            p+=' + '
        }
        p+=keywords[i].toLowerCase();
        location.href=p;
    }

    function showCarousel() {
        varloggedin = <?php if(isset($_SESSION['email'])) echo "true"; else echo "false"?>;
        if(loggedin) {
            for(var i=1;i<=6;i++) {
                document.getElementById("container"+i).style.visibility =
"visible";
            }
        }
        $("body").css("overflow", "scroll");
        localStorage["pagescroll"] = "enabled";
    }

    function hideShowcase() {
        document.getElementById("showcaseContent").style.visibility = "hid
den";
        document.getElementById("showcaseTop").style.visibility = "hidden"
;
        document.getElementById("createAccount").style.visibility = "hidde
n";
        document.getElementById("userlogin").style.visibility = "hidden";
        for(var i=1;i<=6;i++) {
            document.getElementById("container"+i).style.visibility = "hid
den";
        }
        document.getElementById("footer").style.visibility = "hidden";
    }

    $('#loginModel').on('hidden.bs.modal', function () {
        document.getElementById("showcaseContent").style.visibility = "vis
ible";
        document.getElementById("showcaseTop").style.visibility = "visible"
;
        document.getElementById("createAccount").style.visibility = "visib
le";
        document.getElementById("userlogin").style.visibility = "visible";
        if(document.getElementById("createAccount").innerHTML=="Explore >
")
        {
            for(var i=1;i<=6;i++) {
                document.getElementById("container"+i).style.visibility =
"visible";
            }
        }
    });

```

```
        }
        document.getElementById("footer").style.visibility = "visible";
        localStorage["invalidLogin"] = "false";
        document.getElementById("invalid").innerText = "";
    })
</script>
</body>
</html>
```

## 5.2. Signup.php

This page consists of Sign-up form with input fields that collect Personal Information of User. The input provided will be validated accordingly. The following constraints must be followed by the user while filling the form in order to create an Account.

- Full Name must have at least 3 Characters, with no Numeric Input.
- Email must be a valid Gmail Address
- Password must be at least 8 Characters long with at least one Uppercase, One Lowercase, One digit and One Special Character.

```
<?php
    session_start();
    if(isset($_SESSION["email"])) {
        header("Location: http://localhost/Meta-Stream/home/index.php");
    }
    $host="localhost";
    $dbUsername="root";
    $dbPassword="";
    $index = 0;
    $dbname="user_database";
    $conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);
    if(mysqli_connect_error()) {
        echo "Connection Error";
        die('Connect Error('.mysqli_connect_errno().')'.mysqli_connect_error());
    }
    $conn->close();
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="apple-touch-icon" sizes="180x180" href="apple-touch-icon.png">
    <link rel="icon" type="image/png" sizes="32x32" href="favicon-32x32.png">
    <link rel="icon" type="image/png" sizes="16x16" href="favicon-16x16.png">
    <link rel="manifest" href="site.webmanifest">
    <link rel="mask-icon" href="safari-pinned-tab.svg" color="#de2222">
    <meta name="msapplication-TileColor" content="#603cba">
    <meta name="theme-color" content="#ffffff">
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
        <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/font-awesome/4.7.0/css/font-awesome.min.css">
        <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/bootstrap-social/5.1.1/bootstrap-social.min.css">
        <link rel="stylesheet" href="style.css">
```

```

        <title>Meta Stream</title>
    </head>
    <body>
        <div class="showcase-top">
            <a oncontextmenu="return false" href="../home/index.php"></a>
        </div>
        <div class="login-box">
            <h1>Create Account</h1>
            <form action="verify.php" method="POST" onsubmit="return validate();">
                <p>Full Name</p>
                <input id="fname" type="text" name="fname" placeholder="Fullname" required>
                    <div id="invalid1"></div>
                <p>Email</p>
                <input id="email" type="text" name="email" placeholder="Enter Email" required>
                    <div id="invalid2"></div>
                <p>Password</p>
                <input id="password" type="password" name="password" placeholder="Enter Password" required>
                    <div id="invalid3"></div>
                <p>Confirm Password</p>
                <input id="cpassword" type="password" name="cpassword" placeholder="Confirm Password" required>
                    <div id="invalid4"></div>
                <input oncontextmenu="return false" type="submit" name="submit" value="Sign Up">
            </form>
            <a id="signIn" onclick="setVariable()" href="../home/index.php">Already have an account? Sign In</a>
        </div>
        <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj" crossorigin="anonymous"></script>
        <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js" integrity="sha384-Q6E9RHvbIyZFJoft+2mJbHaEWldlvI9IOYy5n3zV9zzTtmI3UksdQRVvoxMfooAo" crossorigin="anonymous"></script>
        <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/js/bootstrap.min.js" integrity="sha384-OgVRvuATP1z7JjHLkuOU7Xw704+h835Lr+6QL9UvYjZE3Ipu6Tp75j7Bh/kR0JKI" crossorigin="anonymous"></script>
        <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
        <script>
            function hideShowcase() {

```

```

        document.getElementById("showcaseContent").style.visibility = "hid
den";
    }
    $('#loginModel').on('hidden.bs.modal', function () {
        document.getElementById("showcaseContent").style.visibility = "vis
ible";
    })
    $(document).ready(function() {
        function alignModal(){
            var modalDialog = $(this).find(".modal-dialog");
            modalDialog.css("margin-
top", Math.max(0, ($(window).height() - modalDialog.height()) / 2));
        }
        $(".modal").on("shown.bs.modal", alignModal);
        $(window).on("resize", function(){
            $(".modal:visible").each(alignModal);
        });
    });
    function setVariable() {
        localStorage["previewLogin"] = "true";
    }
    function hasLowerCase(str) {
        return (/^[a-z]/.test(str));
    }
    function hasUpperCase(str) {
        return (/^[A-Z]/.test(str));
    }
    function validate_password(password) {
        if(password.length<8) {
            document.getElementById("password").style.marginBottom = "0px"
;
            document.getElementById("invalid3").innerText = "Password must
have at least 8 Characters";
            return false;
        }
        if(!hasLowerCase(password) || !hasUpperCase(password)) {
            document.getElementById("password").style.marginBottom = "0px"
;
            document.getElementById("invalid3").innerText = "Weak Password
!";
            return false;
        }
        else {
            pattern = /[0-9]/g;
            if(!password.match(pattern)) {
                document.getElementById("password").style.marginBottom = "
0px";

```

```

        document.getElementById("invalid3").innerText = "Weak Pass
word!";
        return false;
    }
    else {
        var format = /[ `!@#$%^&*()@_+=\[\]\{\};':"\\"|,.<>\/?~]/;
        if(!format.test(password)) {
            document.getElementById("password").style.marginBottom
= "0px";
            document.getElementById("invalid3").innerText = "Weak
Password!";
            return false;
        }
    }
    if(document.getElementById("invalid3").innerText != "") {
        document.getElementById("invalid3").innerText = "";
    }
    return true;
}
function alreadyExists(email) {
    var rvalue = function() {
        var tmp = null;
        $.ajax({
            'async': false,
            'type': 'POST',
            'global': false,
            'dataType': 'html',
            'url': 'checkExists.php',
            'data': {'data': [email]},
            'success': function(data) {
                tmp = data == "true";
            }
        });
        return tmp;
    }();
    return rvalue;
}
function validate() {
    var name = document.getElementById("fname").value;
    name = name.trim();
    if(name.length<3) {
        document.getElementById("fname").style.marginBottom = "0px";
        document.getElementById("invalid1").innerText = "Invalid Name"
    ;
    }
    var regex = /^[a-zA-Z ]{3,30}$/;
    var valid = regex.test(name);
}

```

```

        if(!valid) {
            var regex = /\d/;
            valid = regex.test(name);
            if(valid) {
                document.getElementById("fname").style.marginBottom = "0px"
            ;
                document.getElementById("invalid1").innerText = "Name cann
ot contain digits";
            }
            else {
                if(name.length<3) {
                    document.getElementById("fname").style.marginBottom =
"0px"
                    document.getElementById("invalid1").innerText = "Name
should have at least 3 Characters";
                }
                else if(name.length>30) {
                    document.getElementById("fname").style.marginBottom =
"0px"
                    document.getElementById("invalid1").innerText = "Name
should have at most 30 Characters";
                }
                else {
                    document.getElementById("fname").style.marginBottom =
"0px"
                    document.getElementById("invalid1").innerText = "Speci
al Characters are not Allowed";
                }
            }
        }
        else {
            if(document.getElementById("invalid1").innerText!="") {
                document.getElementById("invalid1").innerText = "";
            }
        }
        var email = document.getElementById("email").value;
        var password = document.getElementById("password").value;
        var cpassword = document.getElementById("cpassword").value;
        var regex = /^[a-zA-Z0-9.!#$%&'*+=?^_`{|}~-]+@[a-zA-Z0-9-
]+(?:\.[a-zA-Z0-9-]+)*$/;
        var validEmail = regex.test(email);
        valid = valid && validEmail;
        if(alreadyExists(email)) {
            document.getElementById("email").style.marginBottom = "0px"
            document.getElementById("invalid2").innerText = "Email Already
Exists!";
            valid = false;
        }
    }
}

```

```

        else if(document.getElementById("invalid2").innerText != "") {
            document.getElementById("invalid2").innerText = "";
        }
        else if(!validEmail) {
            document.getElementById("email").style.marginBottom = "0px"
            document.getElementById("invalid2").innerText = "Invalid Email
Address";
        }
        else if(!email.includes("@gmail.com")) {
            document.getElementById("email").style.marginBottom = "0px"
            document.getElementById("invalid2").innerText = "Must be a val
id Gmail Address";
        }
        else if(document.getElementById("invalid2").innerText != "") {
            document.getElementById("invalid2").innerText = "";
        }
        valid = valid&&email.includes("@gmail.com");
        valid = valid && (validate_password(password));
        if(password!=cpassword) {
            document.getElementById("cpassword").style.marginBottom = "0px
";
            document.getElementById("invalid4").style.paddingBottom = "25p
x";
            document.getElementById("invalid4").innerText = "Passwords did
n't match. Try again!";
        }
        valid = valid && (password==cpassword);
        if(password==cpassword) {
            if(document.getElementById("invalid4").innerText!="") {
                document.getElementById("invalid4").innerText="";
            }
        }
        return valid;
    }
</script>
</body>
</html>

```

### 5.3. CheckExists.php

This is a Server-side script that checks whether the Email Address provided by User during Registration already exists or not. If it already exists, the user will be notified with an Error message.

```
<?php
    session_start();
    if(!isset($_POST["data"])) {
        header("Location: signup.php");
    }
    $email = $_POST["data"][0];
    $host="localhost";
    $dbUsername="root";
    $dbPassword="";
    $dbname="user_database";
    $conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);
    if(mysqli_connect_error()) {
        die('Connect Error('.mysqli_connect_errno().')'.mysqli_connect_error());
    }
    header("Location: signup.php");
}
$sql = "select * from users";
$emails = array();
$result = $conn->query($sql);
if (mysqli_num_rows($result) > 0) {
    while($row = mysqli_fetch_assoc($result)) {
        array_push($emails,$row["EMAIL"]);
    }
}
$flag = 1;
for($i=0;$i<sizeof($emails);$i++) {
    if($emails[$i]==$email) {
        echo "true";
        $flag = 0;
        break;
    }
}
if($flag == 1) {
    echo "false";
}
?>
```

## 5.4. Verify.php

If the Email address provided the user is not present in the Database, a 6-digit Verification code will be sent to the provided Email Address. The user will have to enter the 6-digit verification code in order to have his/her Account created.

```
<?php
    session_start();
    if(isset($_SESSION["signup_fname"])) {
        $fname = $_SESSION["signup_fname"];
        $email = $_SESSION["signup_email"];
        $password = $_SESSION["signup_password"];
        $otp = $_SESSION["otp"];
    }
    else if(isset($_POST['fname'])) {
        $fname=$_POST['fname'];
        $email=$_POST['email'];
        $password=$_POST['password'];
        $cpassword=$_POST['cpassword'];
        $otp = rand(100000,999999);
        $_SESSION["otp"] = $otp;
    }
    $_SESSION["signup_fname"] = $fname;
    $_SESSION["signup_email"] = $email;
    $_SESSION["signup_password"] = $password;
    $_SESSION["otp"] = "$otp";
    $invalidOTP = "false";
    if(isset($_SESSION["invalidOTP"])) {
        $invalidOTP = "true";
    }
    if($invalidOTP == "false") {
        unset($_SESSION["signup_fname"]);
        system("python send_email.py ".$email." \\\"".$fname."\\" \"$otp");
    }
?>
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="apple-touch-icon" sizes="180x180" href="apple-touch-icon.png">
    <link rel="icon" type="image/png" sizes="32x32" href="favicon-32x32.png">
    <link rel="icon" type="image/png" sizes="16x16" href="favicon-16x16.png">
    <link rel="manifest" href="site.webmanifest">
    <link rel="mask-icon" href="safari-pinned-tab.svg" color="#de2222">
    <meta name="msapplication-TileColor" content="#603cba">
    <meta name="theme-color" content="#ffffff">
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
```

```

<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/font-awesome/4.7.0/css/font-awesome.min.css">
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/bootstrap-social/5.1.1/bootstrap-social.min.css">
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
<link rel="stylesheet" href="verifystyle.css">
<title>Meta Stream</title>
</head>
<body>
    <div class="showcase-top">
        <a oncontextmenu="return false" href="../home/index.php"></a>
    </div>
    <div class="login-box">
        <h1>Verify Account</h1>
        <form class="digit-group" action="check.php" method="POST" onsubmit="return validate();">
            <p>An E-mail with a verification code was just sent to <?php echo $email;?>.
                Please enter the 6-digit verification code.
            </p>
            <div id="otp">
                <input type="text" id="digit-1" name="digit-1" data-next="digit-2" />
                <span class="splitter">&ndash;</span>
                <input type="text" id="digit-2" name="digit-2" data-next="digit-3" data-previous="digit-1" />
                <span class="splitter">&ndash;</span>
                <input type="text" id="digit-3" name="digit-3" data-next="digit-4" data-previous="digit-2" />
                <span class="splitter">&ndash;</span>
                <input type="text" id="digit-4" name="digit-4" data-next="digit-5" data-previous="digit-3" />
                <span class="splitter">&ndash;</span>
                <input type="text" id="digit-5" name="digit-5" data-next="digit-6" data-previous="digit-4" />
                <span class="splitter">&ndash;</span>
                <input type="text" id="digit-6" name="digit-6" data-previous="digit-5" />
                <input id="submit" oncontextmenu="return false" type="submit" name="submit" value="Verify">
            </div>
            </form>
            <p id="invalidOTP"></p>
        </div>
    </body>
    <script>
        var invalidOTP = <?php echo $invalidOTP?>;

```

```

        if(invalidOTP) {
            document.getElementById("invalidOTP").innerText = "Invalid Code! Please try again";
        }
        else {
            document.getElementById("invalidOTP").innerText = "";
        }
        $('.digit-group').find('input').each(function() {
            $(this).attr('maxlength', 1);
            $(this).on('keyup', function(e) {
                var parent = $($this).parent();

                if(e.keyCode === 8 || e.keyCode === 37) {
                    var prev = parent.find('input#' + $(this).data('previous'))
                };

                if(prev.length) {
                    $(prev).select();
                }
                else if((e.keyCode >= 48 && e.keyCode <= 57) || (e.keyCode >= 65 && e.keyCode <= 90) || (e.keyCode >= 96 && e.keyCode <= 105) || e.keyCode == 39) {
                    var next = parent.find('input#' + $(this).data('next'));
                    if(next.length) {
                        $(next).select();
                    }
                    else {
                        document.getElementById("submit").click();
                    }
                }
            });
        });
    
```

## 5.5. send\_email.py

This Server-side script is used to Send Verification Link to User, executed using a System Call. It receives Command Line Arguments from the System Call that describe the parameters to be passed to MIME (Python Email Module) Object.

```
import smtplib
from email.mime.multipart import MIMEMultipart
from email.mime.text import MIMEText
from email.mime.base import MIMEBase
from email import encoders
import sys

fromaddr = "<METASTREAM ADMIN EMAIL ADDRESS>"
toaddr = sys.argv[1]
otp = sys.argv[3]
name = sys.argv[2]

msg = MIMEMultipart()

msg['From'] = fromaddr

msg['To'] = toaddr

msg['Subject'] = "Meta Stream Account Verification - regd"

body = "Hi "+name+",\n"+"Your Meta Stream Account Verification code is " + otp

msg.attach(MIMEText(body, 'plain'))

s = smtplib.SMTP('smtp.gmail.com', 587)

s.starttls()

s.login(fromaddr, "<METASTREAM ADMIN EMAIL PASSWORD>")

text = msg.as_string()

s.sendmail(fromaddr, toaddr, text)

s.quit()
```

## 5.6. Check.php

This Server-side page validates the verification code provided by the user in previous step.

```
<?php
    session_start();
    $otp = $_SESSION["otp"];
    $userInput = ".$_POST["digit-1"]." ".$_POST["digit-2"]." ".$_POST["digit-3"]." ".$_POST["digit-4"]." ".$_POST["digit-5"]." ".$_POST["digit-6"];
    if($userInput == $otp) {
        header("Location: http://localhost/Meta-Stream/signup/userdb.php");
    }
    else {
        $_SESSION["invalidOTP"] = "true";
        header("Location: http://localhost/Meta-Stream/signup/verify.php");
    }
?>
```

## 5.7. Userdb.php

This page retrieves the Information provided by the User during Signup from POST variables and inserts a record into the Users table. It also creates four Exclusive tables that keep track of Various User Activity.

```
<?php
    session_start();
    $fname=$_SESSION['signup_fname'];
    $email=$_SESSION['signup_email'];
    $password=$_SESSION['signup_password'];

    $host="localhost";
    $dbUsername="root";
    $dbPassword="";
    $dbname="user_database";

    $conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);

    if(mysqli_connect_error()){
        echo "Connection Error";
        die('Connect Error('.mysqli_connect_errno().')'.mysqli_connect_error());
    }

    else{
        $password = password_hash($password,PASSWORD_DEFAULT);
        $sql = "select * from users where email = ".$email;
        $result = $conn->query($sql);
        if ($result) {
            echo "User already Exists";
        }
        else {
            $sql="INSERT INTO users(FULLNAME,EMAIL,PASSWORD) VALUES('$fname', '$email','$password')";
            if(mysqli_query($conn,$sql)) {
                $sql = "SELECT * from users where id = (select max(id) from users)";
                $result = $conn->query($sql);
                $row = mysqli_fetch_assoc($result);
                $id = $row["ID"];
                $sql = "CREATE TABLE ".$id."sh ( id INT(6) UNSIGNED AUTO_INCREMENT PRIMARY KEY, searchquery varchar(200), ts TIMESTAMP DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP)";
                $result = $conn->query($sql);
                $sql = "CREATE TABLE ".$id."wh ( id INT(6) UNSIGNED AUTO_INCREMENT PRIMARY KEY, videoid int(6), ts TIMESTAMP DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP)";
                $result = $conn->query($sql);
            }
        }
    }
}
```

```

        $sql = "CREATE TABLE ".$id."lh ( id INT(6) UNSIGNED AUTO_INCREMENT PRIMARY KEY, videoid int(6), status varchar(20))";
        $result = $conn->query($sql);
        $sql = "CREATE TABLE ".$id."dh ( id INT(6) UNSIGNED AUTO_INCREMENT PRIMARY KEY, videoid int(6), ts TIMESTAMP DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP)";
        $result = $conn->query($sql);
    }
}
$conn->close();
}

?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
</body>
<script>
    localStorage["previewLogin"]="true";
    localStorage["signUpSuccessful"] = "true";
    window.location.href='http://localhost/Meta-Stream/home/index.php';
</script>
</html>

```

## 5.8. UserLogin.php

This page verifies the Credentials provided by the User during Login. Upon successful verification, the user is redirected to Home Page.

```
<?php
    session_start();
    $host="localhost";
    $dbUsername="root";
    $dbPassword="";
    $dbname="user_database";

    $conn = new mysqli($host,$dbUsername,$dbPassword,$dbname);

    $email = $_POST['email'];
    $password = $_POST['password'];
    $query="SELECT * FROM users WHERE EMAIL='".$email'';

    $result=mysqli_query($conn,$query);

    if(mysqli_num_rows($result)==1)
    {
        $row = mysqli_fetch_assoc($result);
        if(password_verify($password,$row["PASSWORD"])) {
            $_SESSION['userid']=$row["ID"];
            $_SESSION['username']=$row["FULLNAME"];
            $_SESSION['email'] = $row["EMAIL"];
            $_SESSION["invalidLogin"] = "false";
        }
        else {
            $_SESSION["invalidLogin"] = "true";
        }
    }

    else {
        $_SESSION["invalidLogin"] = "true";
    }

?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>UserLogin</title>
</head>
<body>
    <script>
```

```
localStorage["invalidLogin"] = "<?php echo $_SESSION["invalidLogin"]?>
"
window.location.href='http://localhost/Meta-Stream/home/index.php';
</script>
</body>
</html>
```

## 5.9. Search.php

The Search Feature is the best part of our Application. The Search works extremely fast and gives accurate results. It works based on Search tags.

### 5.8.1. THE SEARCH ALGORITHM

The algorithm splits the Query String into individual words. Then the algorithm searches each of them in the Keywords database and returns the closest matches. This algorithm ensures that there are no duplicates in the search results. The keywords in the beginning of search query are given more preference than the later ones and hence appear in the beginning of the results.

```
<?php
session_start();
if(!isset($_SESSION["email"])) {
    header("Location: index.php");
}
$host="localhost";
$dbUsername="root";
$dbPassword="";
$index = 0;
$dbname="videodatabase";
$thumbnail = array();
$videolink = array();
$keywords = array();
$conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);
if(mysqli_connect_error()) {
    echo "Connection Error";
    die('Connect Error('.mysqli_connect_errno().')'.mysqli_connect_error());
}
else {
    $id = 1;
    $sql = "select * from video";
    $result = $conn->query($sql);
    $limit = mysqli_num_rows($result);
    while($id<=$limit) {
        $sql = "select thumbnail from video where id = ".$id;
        $result = $conn->query($sql);
        if (mysqli_num_rows($result) > 0) {
            while($row = mysqli_fetch_assoc($result)) {
                array_push($thumbnail,$row["thumbnail"]);
            }
        }
        $sql = "select fileid from video where id = ".$id;
        $result = $conn->query($sql);
        if (mysqli_num_rows($result) > 0) {
            while($row = mysqli_fetch_assoc($result)) {
                array_push($videolink,$row["fileid"]);
            }
        }
    }
}
```

```

        }
    }
    $id++;
}
$id = 1;
$ind = 0;
$sql = "select * from keywords";
$result = $conn->query($sql);
$limit = mysqli_num_rows($result);
while($id<=$limit) {
    $sql = "select * from keywords where id = ".$id;
    $result = $conn->query($sql);
    if (mysqli_num_rows($result) > 0) {
        while($row = mysqli_fetch_assoc($result)) {
            array_push($keywords, array($row["videoid"], $row["keyword"])
));
    }
    $id++;
}
$conn->close();
}
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/bootstrap-social/5.1.1/bootstrap-social.min.css">
    <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js"></script>
    <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/js/bootstrap.min.js"></script>
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
    <script src="https://cdnjs.cloudflare.com/ajax/libs/require.js/2.3.6/require.min.js" integrity="sha512-c3N18+7g4LMSTdrm621y7kf9v3SDPnhxLNhcjFJbKECVnmZHTdo+IRO05sNLTH/D3vA6u1X32ehoLC7WFVdheg==" crossorigin="anonymous"></script>
    <script src="https://cdnjs.cloudflare.com/ajax/libs/require.js/2.3.6/require.js" integrity="sha512-vRqhAr2wsn+/cSsyz80psBbCcqzz2GTuhGk3bq3dAyytz4J/8XwFqMjiAGFBj+WM95lHBj9cDf87T3P8yMrY7A==" crossorigin="anonymous"></script>
    <link rel="stylesheet" href="css/searchstyle.css">

```

```

        <title>Results</title>
</head>
<body>
    <div id="showcaseTop" class="showcase-top" oncontextmenu="return false" >
        <a oncontextmenu="return false" href="index.php"></a>
        <div id="search">
            <form>
                <input type="text" id="search-input" name="search" autocomplete="off">
                    <a href="#" onclick="fetch_keywords()" ><i class="fa fa-search fa-xs" id="search-icon"></i></a>
            </form>
        </div>
        <button id="userlogout" oncontextmenu="return false" onclick="signOut()" alt="Sign Out">Sign Out</button>
        <a id="myaccount" href="../myaccount/dashboard.php"></a>
    </div>
    <div id="cat">
        <h2> Search Results</h2>
        <h3 id="zeroresults"></h3>
        <div id="results">
        </div>
        <br>
    </div>
    <footer id="footer">
        <div id="connect">
            <p>Connect with us</p>
            <a href="https://www.facebook.com/metastreamadmin/" target="_blank" ></a>
            <button id="contribute"><i class="fa fa-handshake-o fa-lg" aria-hidden="true"></i><a target="_blank" href="https://forms.gle/bhFKAbc1AEkBtntB6" > Contribute</a></button>
            <p id="rights">@Meta-Stream, All Rights Reserved</p>
        </div>
        <div id="aboutDevelopers">
            <h3>
                About Developers
            </h3>
            <a target="_blank" href="https://github.com/ChitturiSaiSuman">Chitturi Sai Suman</a><br>
            <a target="_blank" href="https://github.com/300iq">Praneeth Kapila</a>
        </div>
    </footer>

```

```

<script>
    var qqq;
    function redirect() {
        window.location.href = "videoplayback.html?" + arguments[0];
    }
    const body = document.querySelector('body');
    const searchBtn = document.querySelector('#search');
    const searchInput = document.querySelector('#search-input');
    let active = false;

    body.addEventListener('click', (e) => {
        if(e.target.id === 'search' || e.target.id === 'search-
input' || e.target.id === 'search-icon') {
            if(!active) {
                searchBtn.classList.add('active');
                searchInput.classList.add('active');
                active = true;
            }
        } else {
            searchBtn.classList.remove('active');
            searchInput.classList.remove('active');
            searchInput.value = '';
            active = false;
        }
    });
    window.addEventListener('keydown',function(e){if(e.keyIdentifier=='U+0
00A'||e.keyIdentifier=='Enter'||e.keyCode==13) {
        if(e.target.nodeName=='INPUT'&&e.target.type=='text') {
            e.preventDefault();
            fetch_keywords();
        }
    }
},true);
function fetch_keywords() {
    if(localStorage["searchExpanded"] == "false") {
        localStorage["searchExpanded"] = "true";
        return;
    }
    if(document.getElementById("search-input").value=="") {
        return;
    }
    var keywords = (document.getElementById("search-
input").value).split(" ");
    var p = "searchdb.php?query=";
    var i;
    for(i=0;i<keywords.length-1;i++)
    {

```

```

        p+=keywords[i].toLowerCase();
        p+='+'  

    }  

    p+=keywords[i].toLowerCase();
    location.href=p;
}  

var keys = (parent.document.URL.substring(parent.document.URL.indexOf('='+)+1, parent.document.URL.length)).split('+');  

var i;  

var ID = [];  

var storage = <?php echo json_encode($keywords);?>;  

var thumbnails = <?php echo json_encode($thumbnail);?>;  

var links = <?php echo json_encode($videolink);?>;  

var results = new Set();  

for(i=0;i<keys.length;i++)  

{  

    for(var j=0;j<storage.length;j++) {  

        if(keys[i] == storage[j][1]) {  

            results.add(storage[j][0]);  

        }
    }
}  

results = Array.from(results);
var createClickHandler = function(arg) {
    return function () { location.href = 'videoplayback.php?' + arg;};  

}  

if (results.length>0)
{
    var j;
    for(j=0;j<results.length;j+=1)
    {
        qqq = results[j];
        var thumb_nail="t" + qqq;
        var video_link = "id" + qqq;
        var img = document.createElement("img");
        img.src = thumbnails[results[j]-1];
        img.onclick = createClickHandler(results[j]);
        img.width="180";
        img.style.margin="8px";
        var temp = document.getElementById("results");
        temp.appendChild(img);
    }
}
else {
    document.getElementById("zeroresults").style.display = "block";
    document.getElementById("zeroresults").innerHTML="Unfortunately yo
ur Search did not return any results.";
```

```
var url = window.location.href;
if(!url.includes("?query=")) {
    document.getElementById("zeroresults").innerHTML="It appears t
hat you haven't searched anything.";
}
</script>
</body>
</html>
```

## 5.10. SearchDB.php

In this page, the Search Query entered by the user is retrieved from Search.php page, and a record of this activity along with timestamp is inserted in the Search History table of the specific user.

```
<?php
    session_start();
    $query = substr($_SERVER['REQUEST_URI'], strpos($_SERVER['REQUEST_URI'], '=')
)+1);
    $entry = str_replace("+", " ", $query);
    $userid = $_SESSION["userid"];
    $host="localhost";
    $dbUsername="root";
    $dbPassword="";
    $dbname="user_database";
    $conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);
    if(mysqli_connect_error()) {
        echo "Connection Error";
        die('Connect Error('.mysqli_connect_errno().')'.mysqli_connect_error()
);
    }
    else {
        $timestamp = date("Y-m-d H:i:s");
        $endTime = strtotime("+270 minutes", strtotime($timestamp));
        $timestamp = date('Y-m-d H:i:s', $endTime);
        $sql = "insert into ".$userid.".sh(searchquery, ts) values ('$entry', "
$timestamp')";
        $result = $conn->query($sql);
        if ($result) {
            $p = "Location: http://localhost/Meta-
Stream/home/search.php?query=".$query;
            header($p);
        }
        $conn->close();
    }
?>
```

## 5.11. Videoplayback.php

This is the page where user will be able to Stream a Video. It consists of a Video Player with playback controls and details of the Video like Name of Video, Category, Views, Likes, Dislikes, Downloads and Search Tags.

```
<?php
    session_start();
    if(!isset($_SESSION['email'])) {
        header("Location: index.php");
    }
    $videoid = number_format(substr($_SERVER['REQUEST_URI'],strpos($_SERVER['REQUEST_URI'],'?')+1));
    $host="localhost";
    $dbUsername="root";
    $dbPassword="";
    $index = 0;
    $dbname="videodatabase";
    $thumbnail = array();
    $filename = array();
    $videolink = array();
    $keywords = array();
    $dlink = array();
    $nature = array();
    $architecture = array();
    $animal = array();
    $others = array();
    $technology = array();
    $landscape = array();
    $category = "";
    $views = array();
    $downloads = array();
    $likes = array();
    $dislikes = array();
    $conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);
    if(mysqli_connect_error()) {
        echo "Connection Error";
        die('Connect Error('.mysqli_connect_errno().')'.mysqli_connect_error());
    }
    else {
        $sql = "select * from video where id = ".$videoid;
        $result = $conn->query($sql);
        if (mysqli_num_rows($result) > 0) {
            while($row = mysqli_fetch_assoc($result)) {
                array_push($thumbnail,$row["thumbnail"]);
                array_push($dlink,$row["downloadlink"]);
                array_push($filename,$row["filename"]);
                array_push($views,$row["views"]);
            }
        }
    }
}
```

```

        array_push($downloads,$row["downloads"]);
        array_push($likes,$row["likes"]);
        array_push($dislikes,$row["dislikes"]);
        array_push($videolink,$row["fileid"]);
    }
}

$sql = "select * from keywords where videoid = ".$videoid;
$result = $conn->query($sql);
if (mysqli_num_rows($result) > 0) {
    while($row = mysqli_fetch_assoc($result)) {
        array_push($keywords,array($row["videoid"],$row["keyword"]));
    }
}
$sql = "select * from category where videoid = ".$videoid;
$result = $conn->query($sql);
if (mysqli_num_rows($result) > 0) {
    while($row = mysqli_fetch_assoc($result)) {
        $category = ucfirst($row["category"]);
    }
}
$sql = "UPDATE video set views = views + 1 where id = ".$videoid;
$result = $conn->query($sql);
$conn->close();
}

$userid = $_SESSION["userid"];
$host="localhost";
$dbUsername="root";
$dbPassword="";
$dbname="user_database";
$conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);
if(mysqli_connect_error()) {
    echo "Connection Error";
    die('Connect Error('.mysqli_connect_errno().')'.mysqli_connect_error());
}
else {
    $timestamp = date("Y-m-d H:i:s");
    $endTime = strtotime("+270 minutes", strtotime($timestamp));
    $timestamp = date('Y-m-d H:i:s', $endTime);
    $sql = "insert into ".$userid.".wh(videoid, ts) values ('$videoid', '$timestamp')";
    $result = $conn->query($sql);
    $sql = "select * from ".$userid.".lh where videoid=".$videoid;
    $result = $conn->query($sql);
    $status = "";
    if (mysqli_num_rows($result) > 0) {
        $row = mysqli_fetch_assoc($result);
        $status = $row["status"];
    }
}

```

```

        }
    else {
        $status = "null";
    }
$conn->close();
}
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="shortcut icon" href="/favicon.ico" />
    <link rel="stylesheet" href="css/style.css">
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.15.1/css/all.min.css">
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/bootstrap-social/5.1.1/bootstrap-social.min.css">
    <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js"></script>
    <title>Video Playback</title>
</head>
<body>
    <div id="showcaseTop" class="showcase-top" oncontextmenu="return false" >
        <a oncontextmenu="return false" href="index.php"></a>
        <div id="search">
            <form>
                <input type="text" id="search-input" name="search" autocomplete="off">
            </form>
            <a href="#" onclick="fetch_keywords()" ><i class="fa fa-search fa-xs" id="search-icon"></i></a>
        </div>
        <button id="userlogout" oncontextmenu="return false" onclick="signOut()" alt="Sign Out">Sign Out</button>
        <a id="myaccount" href="..../myaccount/dashboard.php"></a>
    </div>
    <div id="container">

        <iframe id="myframe" src="" width="1280" height="600" frameborder="0" scrolling="no" seamless="" allowfullscreen></iframe>

```

```

        <div style="width: 200px; height: 200px; position: absolute; background-color: white; opacity: 0; right: 0px; top: 0px;">&nbsp;</div>
    </div>
    <div id="details">
        <div id="box">
            <div id="thumbnail">
                <img id="thumb" src="" alt="">
                <div style="display: inline-block;">
                    <button onclick="like();" id="likes"><i id="like" class="fa fa-thumbs-up fa-3x" aria-hidden="true"></i><p id="lcount"></p></button>
                    <button onclick="dislike();" id="dislikes"><i id="dislike" class="fa fa-thumbs-down fa-3x" aria-hidden="true"></i><p id="dlcount"></p></button>
                </div>
            </div>
            <div id="description">
                <h1 id="filename"></h2>
                <h3 id="category"></h3>
                <h3 id="views"></h3>
                <h3 id="downloads"></h3>
                <h3 id="keydesc"></h3>
                <div id="btnid">
                    <a target="_blank" id="downlink" onclick="Download()" href=""><button class="btn"><i class="fas fa-download"></i>Download</button></a>
                </div>
            </div>
        </div>
        <footer id="footer">
            <a href="https://www.facebook.com/metastreamadmin/" target="_blank"></a>
        </footer>
    <script>
        $(document).ready(function() {
            var email = "<?php if(isset($_SESSION['email'])) echo $_SESSION['email']; else echo 'null'?>";
            document.getElementById("userlogout").style.visibility = 'visible';
            document.getElementById("search").style.visibility = 'visible';
        });
        var links = <?php echo json_encode($videolink);?>;
        var downloadlink = <?php echo json_encode($dlink);?>;
        var thumbnail = <?php echo json_encode($thumbnail);?>;
        var storage = <?php echo json_encode($keywords);?>;
        var views = <?php echo json_encode($views);?>;
        var downloads = <?php echo json_encode($downloads);?>;
        var likes = <?php echo json_encode($likes);?>;
        var dislikes = <?php echo json_encode($dislikes);?>;
    
```

```

var vid_id = parent.document.URL.substring(parent.document.URL.indexOf('?'
)+1, parent.document.URL.length);
var ind = parseInt(vid_id);
var filenames = <?php echo json_encode($filename);?>;
document.getElementById("myframe").src=links[0];
document.getElementById("downlink").href=downloadlink[0];
var name = filenames[0];
name = name.substring(0,name.length-4);
function hasUpperCase(str) {
    return (/^[A-Z]/.test(str));
}
var newName = "";
for(var i=0;i<name.length;i++) {
    if(hasUpperCase(name.substring(i,i+1))) {
        newName += " "+name.substring(i,i+1);
    }
    else {
        newName += name.substring(i,i+1);
    }
}
keydesc = "";
for(var i=0;i<storage.length;i++) {
    if(storage[i][0]==ind) {
        keydesc += storage[i][1]+", ";
    }
}
keydesc = keydesc.substring(0,keydesc.length-2);
category = "<?php echo $category;?>";
var likeStatus = "<?php echo $status;?>";
document.getElementById("filename").innerText = newName;
document.getElementById("thumb").src = thumbnail[0];
document.getElementById("category").innerText = "Category: "+category;
document.getElementById("views").innerText = "Views: "+views[0];
document.getElementById("downloads").innerText = "Downloads: "+downloads[0];
];
document.getElementById("keydesc").innerText = "Tags: "+keydesc;
document.getElementById("lcount").innerText = likes[0];
document.getElementById("dlcount").innerText = dislikes[0];
if(likeStatus == "liked") {
    document.getElementById("like").style.color = "#4287f5";
}
else if(likeStatus == "disliked") {
    document.getElementById("dislike").style.color = "#4287f5";
}
function like() {
    var data = [vid_id];
    $.post('like.php', {'data' : JSON.stringify(data)}, function(response)
{

```

```

        location.reload();
    });
}

function dislike() {
    var data = [vid_id];
    $.post('dislike.php', {'data' : JSON.stringify(data)}, function(response) {
        location.reload();
    });
}

function signOut() {
    window.location.href='http://localhost/Meta-Stream/home/logout.php'
}

function Download() {
    var downloadlink = document.getElementById("downlink").href;
    window.open(downloadlink);
    window.location.href = "http://localhost/Meta-
Stream/home/download.php?"+vid_id;
}

const body = document.querySelector('body');
const searchBtn = document.querySelector('#search');
const searchInput = document.querySelector('#search-input');
let active = false;

body.addEventListener('click', (e) => {
    if(e.target.id === 'search' || e.target.id === 'search-
input' || e.target.id === 'search-icon') {
        if(!active) {
            searchBtn.classList.add('active');
            searchInput.classList.add('active');
            active = true;
        }
    } else {
        searchBtn.classList.remove('active');
        searchInput.classList.remove('active');
        searchInput.value = '';
        active = false;
    }
});
window.addEventListener('keydown',function(e){if(e.keyIdentifier=='U+000A'||e.keyIdentifier=='Enter'|||e.keyCode==13) {
    if(e.target.nodeName=='INPUT'&&e.target.type=='text') {
        e.preventDefault();
        fetch_keywords();
    }
}
},true);

function fetch_keywords() {

```

```
if(localStorage["searchExpanded"] == "false") {
    localStorage["searchExpanded"] = "true";
    return;
}
if(document.getElementById("search-input").value=="") {
    return;
}
var keywords = (document.getElementById("search-
input").value).split(" ");
var p = "searchdb.php?query=";
var i;
for(i=0;i<keywords.length-1;i++)
{
    p+=keywords[i].toLowerCase();
    p+='+'
}
p+=keywords[i].toLowerCase();
location.href=p;
}
</script>
</body>
</html>
```

## 5.12. Like.php

This is a Server-side script which handles the Like activity performed by the user. Depending on the existing status, the tables are updated accordingly and so the buttons.

```
<?php
    session_start();
    if(!isset($_SESSION['email'])) {
        header("Location: index.php");
    }

    $userid = $_SESSION["userid"];
    $data = json_decode($_POST['data']);
    $videoid = number_format($data[0]);

    $host="localhost";
    $dbUsername="root";
    $dbPassword="";
    $dbname="user_database";

    $conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);
    if(mysqli_connect_error()) {
        echo "Connection Error";
        die('Connect Error('.mysqli_connect_errno().')'.mysqli_connect_error())
    };
    }

    $sql = "select * from ".$userid."lh where videoid = $videoid";
    $result = $conn->query($sql);
    $status = "";
    if (mysqli_num_rows($result) > 0) {
        $row = mysqli_fetch_assoc($result);
        $status = $row["status"];
    }
    else {
        $status = "null";
    }
    $conn->close();

    if($status == "null") {
        // Increment likes in video table
        $host="localhost";
        $dbUsername="root";
        $dbPassword="";
        $dbname="videodatabase";
        $conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);
        $sql = "UPDATE video set likes = likes + 1 where id = ".$videoid;
        $result = $conn->query($sql);
```

```

    // Insert into user lh like
    $host="localhost";
    $dbUsername="root";
    $dbPassword="";
    $dbname="user_database";
    $conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);
    $sql = "insert into ".$userid.".lh (videoid, status) values($videoid, 'liked')";
    $result = $conn->query($sql);
}
else if($status == "none") {
    // Increment likes in video table
    $host="localhost";
    $dbUsername="root";
    $dbPassword="";
    $dbname="videodatabase";
    $conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);
    $sql = "UPDATE video set likes = likes + 1 where id = ".$videoid;
    $result = $conn->query($sql);

    // Update status to liked in user lh
    $host="localhost";
    $dbUsername="root";
    $dbPassword="";
    $dbname="user_database";
    $conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);
    $sql = "UPDATE ".$userid.".lh set status = 'liked' where videoid = ".$videoid;
    $result = $conn->query($sql);
}
else if($status == "liked") {
    // Decrement likes in video table
    $host="localhost";
    $dbUsername="root";
    $dbPassword="";
    $dbname="videodatabase";
    $conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);
    $sql = "UPDATE video set likes = likes - 1 where id = ".$videoid;
    $result = $conn->query($sql);

    // Update status to none
    $host="localhost";
    $dbUsername="root";
    $dbPassword="";
    $dbname="user_database";
    $conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);
    $sql = "UPDATE ".$userid.".lh set status = 'none' where videoid = ".$videoid;
}

```

```

        $result = $conn->query($sql);
    }
    else {
        // Increment likes in video table
        $host="localhost";
        $dbUsername="root";
        $dbPassword="";
        $dbname="videodatabase";
        $conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);
        $sql = "UPDATE video set likes = likes + 1 where id = ".$videoid;
        $result = $conn->query($sql);

        // Decrement dislikes in video table
        $host="localhost";
        $dbUsername="root";
        $dbPassword="";
        $dbname="videodatabase";
        $conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);
        $sql = "UPDATE video set dislikes = dislikes - 1 where id = ".$videoid
    ;
        $result = $conn->query($sql);

        // Update status to liked
        $host="localhost";
        $dbUsername="root";
        $dbPassword="";
        $dbname="user_database";
        $conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);
        $sql = "UPDATE ".$userid.".lh set status = 'liked' where videoid = ".$v
ideoid;
        $result = $conn->query($sql);
    }
    $host="localhost";
    $dbUsername="root";
    $dbPassword="";
    $dbname="videodatabase";
    $conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);
    $sql = "UPDATE video set views = views - 1 where id = ".$videoid;
    $result = $conn->query($sql);
    $conn->close();

?>

```

### 5.13. Dislike.php

This is a Server-side script which handles the Dislike activity performed by the user. Depending on the existing status, the tables are updated accordingly and so the buttons.

```
<?php
    session_start();
    if(!isset($_SESSION['email'])) {
        header("Location: index.php");
    }

    $userid = $_SESSION["userid"];
    $data = json_decode($_POST['data']);
    $videoid = number_format($data[0]);

    $host="localhost";
    $dbUsername="root";
    $dbPassword="";
    $dbname="user_database";

    $conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);
    if(mysqli_connect_error()) {
        echo "Connection Error";
        die('Connect Error('.mysqli_connect_errno().')'.mysqli_connect_error())
    };
    }

    $sql = "select * from ".$userid.".lh where videoid = $videoid";
    $result = $conn->query($sql);
    $status = "";
    if (mysqli_num_rows($result) > 0) {
        $row = mysqli_fetch_assoc($result);
        $status = $row["status"];
    }
    else {
        $status = "null";
    }
    $conn->close();

    if($status == "null") {
        // Increment dislikes in video table
        $host="localhost";
        $dbUsername="root";
        $dbPassword="";
        $dbname="videodatabase";
        $conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);
        $sql = "UPDATE video set dislikes = dislikes + 1 where id = ".$videoid
    ;
        $result = $conn->query($sql);
```

```

// Insert into user lh dislike
$host="localhost";
$dbUsername="root";
$dbPassword="";
$dbname="user_database";
$conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);
$sql = "insert into ".$userid.".lh (videoid, status) values($videoid, 'disliked')";
$result = $conn->query($sql);
}
else if($status == "none") {
    // Increment dislikes in video table;
$host="localhost";
$dbUsername="root";
$dbPassword="";
$dbname="videodatabase";
$conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);
$sql = "UPDATE video set dislikes = dislikes + 1 where id = ".$videoid ;
;
$result = $conn->query($sql);

// Update status to disliked
$host="localhost";
$dbUsername="root";
$dbPassword="";
$dbname="user_database";
$conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);
$sql = "UPDATE ".$userid.".lh set status = 'disliked' where videoid = ".
.$videoid;
$result = $conn->query($sql);
}
else if($status == "liked") {
    // Decrement likes in video table
$host="localhost";
$dbUsername="root";
$dbPassword="";
$dbname="videodatabase";
$conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);
$sql = "UPDATE video set likes = likes - 1 where id = ".$videoid;
$result = $conn->query($sql);

// Increment dislikes in video table
$host="localhost";
$dbUsername="root";
$dbPassword="";
$dbname="videodatabase";
$conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);

```

```

$sql = "UPDATE video set dislikes = dislikes + 1 where id = ".$videoid
;
$result = $conn->query($sql);

// Update status to disliked
$host="localhost";
$dbUsername="root";
$dbPassword="";
$dbname="user_database";
$conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);
$sql = "UPDATE ".$userid.".lh set status = 'disliked' where videoid = "
.$videoid;
$result = $conn->query($sql);
}

else {
    // Decrement dislikes in video table
    $host="localhost";
    $dbUsername="root";
    $dbPassword="";
    $dbname="videodatabase";
    $conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);
    $sql = "UPDATE video set dislikes = dislikes - 1 where id = ".$videoid
;
    $result = $conn->query($sql);

    // Update status to none
    $host="localhost";
    $dbUsername="root";
    $dbPassword="";
    $dbname="user_database";
    $conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);
    $sql = "UPDATE ".$userid.".lh set status = 'none' where videoid = ".$vi
deoid;
    $result = $conn->query($sql);
}
$host="localhost";
$dbUsername="root";
$dbPassword="";
$dbname="videodatabase";
$conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);
$sql = "UPDATE video set views = views - 1 where id = ".$videoid;
$result = $conn->query($sql);
?>

```

## 5.14. Download.php

When a User clicks the download button in Video Playback page, this Script updates the Cell Corresponding to the video in Video Database, incrementing the Downloads. This script also creates an entry in the Download History of Respective User.

```
<?php
session_start();
$host="localhost";
$dbUsername="root";
$dbPassword="";
$dbname="videodatabase";
$conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);
$dlink = "";
$sql = "select * from video where id = ".$videoid;
$result = $conn->query($sql);
if (mysqli_num_rows($result) > 0) {
    while($row = mysqli_fetch_assoc($result)) {
        $dlink=$row["downloadlink"];
    }
}
$videoid = number_format(substr($_SERVER['REQUEST_URI'],strpos($_SERVER['REQUEST_URI'],'?')+1));
$sql = "UPDATE video set downloads = downloads + 1 where id = ".$videoid;
$result = $conn->query($sql);
$sql = "UPDATE video set views = views - 1 where id = ".$videoid;
$result = $conn->query($sql);
$conn->close();

$userid = $_SESSION["userid"];
$host="localhost";
$dbUsername="root";
$dbPassword="";
$dbname="user_database";
$conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);
if(mysqli_connect_error()) {
    echo "Connection Error";
    die('Connect Error('.mysqli_connect_errno().')'.mysqli_connect_error());
}
else {
    $timestamp = date("Y-m-d H:i:s");
    $endTime = strtotime("+270 minutes", strtotime($timestamp));
    $timestamp = date('Y-m-d H:i:s', $endTime);
    $sql = "insert into ".$userid.".dh(videoid, ts) values ('$videoid', '$timestamp')";
    $result = $conn->query($sql);
    $conn->close();
}
```

```
$p = "Location: http://localhost/Meta-
Stream/home/videoplayback.php?".\$videoid;
header($p);
?>
```

## 5.15. Dashboard.php

This is the page where user can Manage his/her User Account. This page provides Navigation to various other pages that individually deal with some sort of User Activity.

```
<?php
    session_start();
    if(!isset($_SESSION["email"])) {
        header("Location: ../home/index.php");
    }
    $username = $_SESSION["username"];
    $userid = $_SESSION["userid"];
    $email = $_SESSION["email"];
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Dashboard</title>
    <link rel="stylesheet" href="style.css">
</head>
<body>
    <div id="showcaseTop" class="showcase-top">
        <a href="../home/index.php"></a>
        <button id="userlogout" onclick="signOut()" alt="Sign Out">Sign Out</button>
    </div>
    <div id="userinfo">
        <h1 id="message">Welcome, <?php echo $_SESSION['username'];?></h1>
        <h2 id="text">Manage your Account info and Activity with these simple steps</h2>
    </div>
    <div class="container-holder">
        <div class="container">
            <div class="item item--1">
                <p>Account</p>
                
                <hr>
                <div id="credentials">
                    <a href="account/myaccount.php"><h3>Manage Your Credentials</h3></a>
                </div>
            </div>
            <div class="item item--2">
                <p>Search History</p>
                
                <hr>
            </div>
        </div>
    </div>
</body>
```

```

        <div id="search">
            <a href="search_history/searchhistory.php"><h3>Manage Search History</h3></a>
        </div>
        <div class="item item--3">
            <p>Watch History</p>
            
            <hr>
            <div id="watch">
                <a href="watch_history/watchhistory.php"><h3>Manage Watch History</h3></a>
            </div>
        </div>
        <div class="item item--4">
            <p>Download History</p>
            
            <hr>
            <div id="download">
                <a href="download_history/downloadhistory.php"><h3>Manage Download History</h3></a>
            </div>
        </div>
        </div>
    </div>
    <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj" crossorigin="anonymous"></script>
    <script language="JavaScript" type="text/javascript">
        $(document).ready(function() {
            var email = "<?php echo $_SESSION['email'];?>";
            var username = "<?php echo $_SESSION['username'];?>";
            var userid = "<?php echo $_SESSION['userid'];?>";
        });
        function signOut() {
            window.location.href='http://localhost/Meta-Stream/home/logout.php';
        }
    </script>
</body>
</html>

```

## 5.16. MyAccount.php

In this page, User can manage his/her Login Credentials like Username, Email and Password. Each request is validated accordingly and the Corresponding entry in the User Database is updated immediately.

```
<?php
    session_start();
    if(!isset($_SESSION["email"])) {
        header("Location: ../home/index.php");
    }
    $username = $_SESSION["username"];
    $userid = $_SESSION["userid"];
    $email = $_SESSION["email"];
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="apple-touch-icon" sizes="180x180" href="apple-touch-icon.png">
    <link rel="icon" type="image/png" sizes="32x32" href="favicon-32x32.png">
    <link rel="icon" type="image/png" sizes="16x16" href="favicon-16x16.png">
    <link rel="manifest" href="site.webmanifest">
    <link rel="mask-icon" href="safari-pinned-tab.svg" color="#de2222">
    <meta name="msapplication-TileColor" content="#603cba">
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/
4.3.1/css/bootstrap.min.css" integrity="sha384-
ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T" crossorigin=
"anonymous">
    <script src="https://code.jquery.com/jquery-
3.3.1.slim.min.js" integrity="sha384-
q8i/X+965Dz00rT7abK41JStQIAqVgRVzbzo5smXKp4YfRvH+8abtTE1Pi6jizo" crossorigin=
"anonymous"></script>
    <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/p
opper.min.js" integrity="sha384-
U02eT0CpHqdSJQ6hJty5KVphPhzWj9W01clHTMGa3JDZwrnQq4sF86dIHNDz0W1" crossorigin=
"anonymous"></script>
    <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstr
ap.min.js" integrity="sha384-
JjSmVgyd0p3pXB1rRibZUAYoIIy60rQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM" crossorigin=
"anonymous"></script>
    <link rel="stylesheet" href="myaccountstyle.css">
    <title>My Account</title>
</head>
<body>
    <div id="showcaseTop" class="showcase-top">
        <a href="http://localhost/Meta-
Stream/home/index.php"></a>
```

```

        <button id="userlogout" onclick="signOut()" alt="Sign Out">Sign Out</button>
        <a id="myaccount" href="http://localhost/Meta-
Stream/myaccount/dashboard.php"></a>
    </div>
    <h2 id="message">Welcome, <?php echo $_SESSION['username'];?></h2>
    <h4 id="sentence">Manage Your Credentials with these Simple Steps</h4>
    <div class="accordion" id="accordionExample">
        <div class="card">
            <div class="card-header" id="headingOne">
                <h2 class="mb-0">
                    <button class="btn btn-link collapsed" type="button" data-
toggle="collapse" data-target="#collapseOne" aria-expanded="false" aria-
controls="collapseOne">
                        Change Username
                    </button>
                </h2>
            </div>
            <div id="collapseOne" class="collapse show" aria-
labelledby="headingOne" data-parent="#accordionExample">
                <div class="card-body">
                    <form action="changeUsername.php" method="POST" onsubmit="
return validateUsername();">
                        <label>New Username</label>
                        <input id="username" type="text" name="username" place
holder="Enter Username" required>
                        <div class="error" id="invalidUsername"></div>
                        <button type="submit" class="btn btn-
primary">Change Username</button>
                    </form>
                </div>
            </div>
        <div class="card">
            <div class="card-header" id="headingTwo">
                <h2 class="mb-0">
                    <button class="btn btn-link collapsed" type="button" data-
toggle="collapse" data-target="#collapseTwo" aria-expanded="false" aria-
controls="collapseTwo">
                        Change Email Address
                    </button>
                </h2>
            </div>
            <div id="collapseTwo" class="collapse" aria-
labelledby="headingTwo" data-parent="#accordionExample">
                <div class="card-body">
                    <span id="span">Current Email Address: <?php echo $_SESSIO
N["email"];?></span>
                </div>
            </div>
        </div>
    </div>

```

```

        <form action="verifyEmail.php" method="POST" onsubmit="return validateEmail();">
            <label>Email</label>
            <input id="email" type="text" name="email" placeholder="Enter Email" required>
            <div class="error" id="invalid"></div>
            <button type="submit" class="btn btn-primary">Change Email Address</button>
        </form>
    </div>
</div>
<div class="card">
    <div class="card-header" id="headingThree">
        <h2 class="mb-0">
            <button class="btn btn-link collapsed" type="button" data-toggle="collapse" data-target="#collapseThree" aria-expanded="false" aria-controls="collapseThree">
                Change Password
            </button>
        </h2>
    </div>
    <div id="collapseThree" class="collapse" aria-labelledby="headingThree" data-parent="#accordionExample">
        <div class="card-body">
            <form action="changePassword.php" method="POST" onsubmit="return validatePassword();">
                <label>Current Password</label>
                <input id="oldpassword" type="password" name="opassword" placeholder="Enter Current Password" required>
                <div class="error" id="invalid1"></div>
                <label>New Password</label>
                <input id="npassword" type="password" name="npassword" placeholder="Enter New Password" required>
                <div class="error" id="invalid2"></div>
                <label>Confirm New Password</label>
                <input id="cpassword" type="password" name="cpassword" placeholder="Confirm New Password" required>
                <div class="error" id="invalid3"></div>
                <button type="submit" class="btn btn-primary">Change Password</button>
            </form>
        </div>
    </div>
</div>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

```

```

<script>
    function signOut() {
        window.location.href='http://localhost/Meta-
Stream/home/logout.php';
        localStorage["pagescroll"] = "disabled";
    }
    function isCorrectPassword(password) {
        var rvalue = function() {
            var tmp = null;
            $.ajax({
                'async': false,
                'type': 'POST',
                'global': false,
                'dataType': 'html',
                'url': 'isCorrectPassword.php',
                'data': {'data': [password]},
                'success': function(data) {
                    tmp = data == "true";
                }
            });
            return tmp;
        }();
        return rvalue;
    }
    function hasLowerCase(str) {
        return (/[^a-z]/.test(str));
    }
    function hasUpperCase(str) {
        return (/[^A-Z]/.test(str));
    }
    function validatePassword() {
        var oldPassword = document.getElementById("oldpassword").value;
        var password = document.getElementById("npassword").value;
        var cpassword = document.getElementById("cpassword").value;
        if(!isCorrectPassword(oldPassword)) {
            document.getElementById("oldpassword").style.marginBottom = "0
px";
            document.getElementById("invalid1").innerText = "Invalid Curre
nt Password!";
            document.getElementById("invalid2").innerText = "";
            document.getElementById("invalid3").innerText = "";
            return false;
        }
        else if(document.getElementById("invalid1").innerText != "") {
            document.getElementById("invalid1").innerText = "";
        }
        if(oldPassword == password) {

```

```

        document.getElementById("npassword").style.marginBottom = "0px
";
        document.getElementById("invalid2").innerText = "New Password
cannot be same as Old Password!";
        document.getElementById("invalid1").innerText = "";
        document.getElementById("invalid3").innerText = "";
        return false;
    }
    else if(document.getElementById("invalid2").innerText != "") {
        document.getElementById("invalid2").innerText = "";
    }

    if(password!=cpassword) {
        document.getElementById("cpassword").style.marginBottom = "0px
";
        document.getElementById("invalid1").innerText = "";
        document.getElementById("invalid2").innerText = "";
        document.getElementById("invalid3").innerText = "Passwords don
't match!";
        return false;
    }
    else if(document.getElementById("invalid3").innerText != "") {
        document.getElementById("invalid3").innerText = "";
    }
    if(password.length<8) {
        document.getElementById("npassword").style.marginBottom = "0px
";
        document.getElementById("invalid1").innerText = "";
        document.getElementById("invalid3").innerText = "";
        document.getElementById("invalid2").innerText = "Password must
have at least 8 Characters";
        return false;
    }
    else if(document.getElementById("invalid2").innerText != "") {
        document.getElementById("invalid2").innerText = "";
    }
    if(!hasLowerCase(password) || !hasUpperCase(password)) {
        document.getElementById("npassword").style.marginBottom = "0px
";
        document.getElementById("invalid1").innerText = "";
        document.getElementById("invalid3").innerText = "";
        document.getElementById("invalid2").innerText = "Weak Password
!";
        return false;
    }
    else if(document.getElementById("invalid2").innerText != "") {
        document.getElementById("invalid2").innerText = "";
    }
}

```

```

        if(true) {
            pattern = /[0-9]/g;
            if(!password.match(pattern)) {
                document.getElementById("npassword").style.marginBottom =
"0px";
                document.getElementById("invalid2").innerText = "Weak Pass
word!";
                document.getElementById("invalid1").innerText = "";
                document.getElementById("invalid3").innerText = "";
                return false;
            }
            else {
                var format = /[ `!@#$%^&*()@_+=\[\]{};':"\\"|,.<>\/?~]/;
                if(!format.test(password)) {
                    document.getElementById("npassword").style.marginBotto
m = "0px";
                    document.getElementById("invalid1").innerText = "";
                    document.getElementById("invalid3").innerText = "";
                    document.getElementById("invalid2").innerText = "Weak
Password!";
                    return false;
                }
            }
        }
        if(document.getElementById("invalid2").innerText != "") {
            document.getElementById("invalid2").innerText = "";
        }
        return true;
    }

    function alreadyExists(email) {
        var rvalue = function() {
            var tmp = null;
            $.ajax({
                'async': false,
                'type': 'POST',
                'global': false,
                'dataType': 'html',
                'url': 'checkExists.php',
                'data': {'data': [email]},
                'success': function(data) {
                    tmp = data == "true";
                }
            });
            return tmp;
        }();
        return rvalue;
    }

    function validateEmail() {

```

```

var email = document.getElementById("email").value;
if(email == "<?php echo $email;?>") {
    document.getElementById("email").style.marginBottom = "0px"
    document.getElementById("invalid").innerText = "New Email Address cannot be same as Old Email Address!";
    return false;
}
var regex = /^[a-zA-Z0-9._!#$%&'*+/=?^`{|}~-]+@[a-zA-Z0-9-]+(?:\.[a-zA-Z0-9-]+)*$/;
var validEmail = regex.test(email);
if(alreadyExists(email)) {
    document.getElementById("email").style.marginBottom = "0px"
    document.getElementById("invalid").innerText = "Email Already Exists!";
    return false;
}
else if(!validEmail) {
    document.getElementById("email").style.marginBottom = "0px"
    document.getElementById("invalid").innerText = "Invalid Email Address";
    return false;
}
else if(!email.includes("@gmail.com")) {
    document.getElementById("email").style.marginBottom = "0px"
    document.getElementById("invalid").innerText = "Must be a valid Gmail Address";
    return false;
}
else if(document.getElementById("invalid").innerText != "") {
    document.getElementById("invalid").innerText = "";
}
return true;
}
function validateUsername() {
    var name = document.getElementById("username").value;
    name = name.trim();
    if(name.length<3) {
        document.getElementById("username").style.marginBottom = "0px";
        document.getElementById("invalidUsername").innerText = "Invalid Name";
    }
    var regex = /^[a-zA-Z ]{3,30}$/;
    var valid = regex.test(name);
    if(!valid) {
        var regex = /\d/;
        var hasNum = regex.test(name);
        if(hasNum) {

```

```

        document.getElementById("username").style.marginBottom = "0px";
        document.getElementById("invalidUsername").innerText = "Name cannot contain digits";
        valid = valid && (!hasNum);
    }
    else {
        if(name.length<3) {
            document.getElementById("username").style.marginBottom = "0px"
            document.getElementById("invalidUsername").innerText = "Name should have at least 3 Characters";
        }
        else if(name.length>30) {
            document.getElementById("username").style.marginBottom = "0px"
            document.getElementById("invalidUsername").innerText = "Name should have at most 30 Characters";
        }
        else {
            document.getElementById("username").style.marginBottom = "0px"
            document.getElementById("invalidUsername").innerText = "Special Characters are not Allowed";
        }
    }
}
else {
    if(document.getElementById("invalid1").innerText!="") {
        document.getElementById("invalid1").innerText = "";
    }
}
return valid;
}
</script>
</body>
</html>

```

## 5.17. ChangeUsername.php

This is a Server-side script that modifies the Username of the user based on Request. The New Username is retrieved using POST method of JavaScript at Client-Side.

```
<?php
    session_start();
    if(!isset($_POST["username"])) {
        header("Location: ../home/index.php");
    }

    $userid = $_SESSION['userid'];
    $username = $_POST['username'];

    $host="localhost";
    $dbUsername="root";
    $dbPassword="";
    $dbname="user_database";

    $conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);

    if(mysqli_connect_error()) {
        echo "Connection Error";
        die('Connect Error('.mysqli_connect_errno().')'.mysqli_connect_error());
    };

    }
    else {
        $sql = "UPDATE users SET FULLNAME = '$username' WHERE ID = ".$userid."";
    };
    $result = $conn->query($sql);
    if($result) {
        $_SESSION['username'] = $username;
    }
    else {
        echo "Failed";
    }
    $conn->close();
}
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
```

```
</body>
<script>
    window.location.href='http://localhost/Meta-
Stream/myaccount/account/myaccount.php';
</script>
</html>
```

## 5.18. VerifyEmail.php

This Server-side script is Executed based on User Request to change login Email. A 6-digit verification code will be sent to User's Updated Email. This page prompts the 6-digit verification code and user has to enter it in order to change his/her Login Email Address.

```
<?php
    session_start();
    if(!isset($_POST['email'])) {
        header("Location: myaccount.php");
    }
    $email=$_POST['email'];
    $otp = rand(100000,999999);
    $_SESSION["otp"] = $otp;

    $_SESSION["changeEmail"] = $email;
    $_SESSION["otp"] = "$otp";
    $invalidOTP = "false";

    if(isset($_SESSION["invalidOTP"])) {
        $invalidOTP = "true";
    }
    if($invalidOTP == "false") {
        $fname = $_SESSION["username"];
        system("python send_email.py ".$email." \"\"".$fname."\\" ". $otp);
    }
?>
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<link rel="apple-touch-icon" sizes="180x180" href="apple-touch-icon.png">
<link rel="icon" type="image/png" sizes="32x32" href="favicon-32x32.png">
<link rel="icon" type="image/png" sizes="16x16" href="favicon-16x16.png">
<link rel="manifest" href="site.webmanifest">
<link rel="mask-icon" href="safari-pinned-tab.svg" color="#de2222">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="theme-color" content="#ffffff">
<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/font-awesome/4.7.0/css/font-awesome.min.css">
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/bootstrap-social/5.1.1/bootstrap-social.min.css">
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
<link rel="stylesheet" href="verifystyle.css">
<title>Meta Stream</title>
</head>
```

```

<body>
    <div class="showcase-top">
        <a href="../home/index.php"></a>
    </div>
    <div class="login-box">
        <h1>Verify Account</h1>
        <form class="digit-
group" action="check.php" method="POST" onsubmit="return validate();">
            <p>An E-
mail with a verification code was just sent to <?php echo $email;?>.
                Please enter the 6-digit verification code.
            </p>
            <div id="otp">
                <input type="text" id="digit-1" name="digit-1" data-
next="digit-2" />
                <span class="splitter">&ndash;</span>
                <input type="text" id="digit-2" name="digit-2" data-
next="digit-3" data-previous="digit-1" />
                <span class="splitter">&ndash;</span>
                <input type="text" id="digit-3" name="digit-3" data-
next="digit-4" data-previous="digit-2" />
                <span class="splitter">&ndash;</span>
                <input type="text" id="digit-4" name="digit-4" data-
next="digit-5" data-previous="digit-3" />
                <span class="splitter">&ndash;</span>
                <input type="text" id="digit-5" name="digit-5" data-
next="digit-6" data-previous="digit-4" />
                <span class="splitter">&ndash;</span>
                <input type="text" id="digit-6" name="digit-6" data-
previous="digit-5" />
                <input id="submit" type="submit" name="submit" value="Verify">
            </div>
            </form>
            <p id="invalidOTP"></p>
        </div>
    </body>
    <script>
        var invalidOTP = <?php echo $invalidOTP?>;
        if(invalidOTP) {
            document.getElementById("invalidOTP").innerText = "Invalid Code! P
lease try again";
        }
        else {
            document.getElementById("invalidOTP").innerText = "";
        }
        $('.digit-group').find('input').each(function() {
            $(this).attr('maxlength', 1);
            $(this).on('keyup', function(e) {

```

```
        var parent = $($this).parent();

        if(e.keyCode === 8 || e.keyCode === 37) {
            var prev = parent.find('input#' + $(this).data('previous'))
        }

        if(prev.length) {
            $(prev).select();
        }
    }

    else if((e.keyCode >= 48 && e.keyCode <= 57) || (e.keyCode >=
65 && e.keyCode <= 90) || (e.keyCode >= 96 && e.keyCode <= 105) || e.keyCode =
== 39) {
        var next = parent.find('input#' + $(this).data('next'));
        if(next.length) {
            $(next).select();
        }
        else {
            document.getElementById("submit").click();
        }
    }
});

</script>
</html>
```

## 5.19. Check.php

This is a Server-side script that verifies whether the 6-digit Verification code provided by the User in Previous step is valid or not. If valid, the User's Login Email will be Updated in the database.

```
<?php
    session_start();
    $otp = $_SESSION["otp"];
    $userInput = "".$_POST["digit-1"]." ".$_POST["digit-2"]." ".$_POST["digit-
3"]." ".$_POST["digit-4"]." ".$_POST["digit-5"]." ".$_POST["digit-6"];
    echo $userInput;
    echo $otp;
    if($userInput == $otp) {
        echo "Done";
        header("Location: http://localhost/Meta-
Stream/myaccount/account/updateEmail.php");
    }
    else {
        $_SESSION["invalidOTP"] = "true";
        header("Location: http://localhost/Meta-
Stream/myaccount/account/verifyEmail.php");
        echo "Not Done";
    }
?>
```

## 5.20. UpdateEmail.php

This is a Server-side script that updates the User's login Email address in the Database.

```
<?php
    session_start();
    $email=$_SESSION['changeEmail'];
    $userid = $_SESSION['userid'];

    $host="localhost";
    $dbUsername="root";
    $dbPassword="";
    $dbname="user_database";

    $conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);

    if(mysqli_connect_error()) {
        echo "Connection Error";
        die('Connect Error('.mysqli_connect_errno().')'.mysqli_connect_error());
    };

    }
    else {
        $sql = "UPDATE users SET EMAIL= '$email' WHERE ID = ".$userid.";";
        $result = $conn->query($sql);
        if($result) {
            $_SESSION["email"] = $email;
        }
        $conn->close();
    }
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>

</body>
<script>
    window.location.href='http://localhost/Meta-
Stream/myaccount/account/myaccount.php';
</script>
</html>
```

## 5.21. ChangePassword.php

This is a Server-side Script that updates User's Login Password in the Database. PHP's one-way Standard Hashing Algorithm is used to Hash the Password, making it impossible for the Admins to retrieve any User's Password using any Means.

```
<?php
    session_start();
    if(!isset($_POST["password"])) {
        header("Location: myaccount.php");
    }
    $userid = $_SESSION['userid'];
    $password = $_POST["npassword"];

    $host="localhost";
    $dbUsername="root";
    $dbPassword="";
    $dbname="user_database";

    $conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);

    if(mysqli_connect_error()) {
        echo "Connection Error";
        die('Connect Error('.mysqli_connect_errno().')'.mysqli_connect_error());
    };

    }
    else {
        $password = password_hash($password,PASSWORD_DEFAULT);
        $sql = "UPDATE users SET PASSWORD = '$password' WHERE ID = ".$userid."";
        $result = $conn->query($sql);
        $conn->close();
    }
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>

</body>
<script>
    localStorage["modifiedPass"] = "true";
</script>
</html>
```

## 5.22. SearchHistory.php

This page previews the Search Activity of User. The Search History items are Ordered Starting from the most Recent ones. User can select any number of items and delete.

```
<?php
    session_start();
    if(!isset($_SESSION["email"])) {
        header("Location: ../../home/index.php");
    }

    $username = $_SESSION["username"];
    $user_id = $_SESSION["userid"];
    $email = $_SESSION["email"];

    define('DB_SERVER', 'localhost');
    define('DB_USERNAME', 'root');
    define('DB_PASSWORD', '');
    define('DB_DATABASE', 'user_database');
    $conn = mysqli_connect(DB_SERVER,DB_USERNAME,DB_PASSWORD,DB_DATABASE);

    $query = "select * from ".$user_id."sh";
    $sql=mysqli_query($conn,$query);
    $id=array();
    $search_string=array();
    $ts=array();

    if ($sql->num_rows > 0) {
        while($row = $sql->fetch_assoc()) {
            array_push($id,$row["id"]);
            array_push($search_string,$row["searchquery"]);
            array_push($ts,$row["ts"]);
        }
    }
    $id = array_reverse($id);
    $search_string = array_reverse($search_string);
    $ts = array_reverse($ts);
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" href="style1.css">
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
    <title>Search history</title>
</head>
```

```

<body>
    <div id="showcaseTop" class="showcase-top">
        <a href="../../home/index.php"></a>
        <button id="userlogout" onclick="signOut()" alt="Sign Out">Sign Out</button>
        <a id="myaccount" href="../dashboard.php"></a>
        <div id="delete">
            <span id="selected">0 Selected</span>
            <button id="del-btn" onclick="del()">Delete</button>
        </div>
        <button id="prev-btn" onclick="prev()">Previous</button>
        <button id="next-btn" onclick="next()">Next</button>
    </div>
    <h1 id="title">Manage Your Search History</h1><br>
    <h2 id="heading" style="visibility: hidden; text-align: center;"></h2>
    <div id="container">
        <div id="searchhistory">
        </div>
    </div>
    <h2 id="message" style="visibility: hidden; text-align: center;">
        Your Search History is Empty.<br>Please come back later.
    </h2>
    <script>
        var url = window.location.href;
        var length = url.length;
        var page = 1;
        var prefix = "http://localhost/Meta-
Stream/myaccount/search_history/searchhistory.php";
        if(url.substring(length-3,length)=="php") {
            window.location.href = url + "?page=1";
        }
        else {
            page = parseInt(url.substring(url.indexOf("=")+1,length));
        }
        t = document.getElementById("searchhistory");
        var ids=<?php echo json_encode($id)?>;
        var st = (page-1)*50+1;
        if((st<1 || st>ids.length) && ids.length!=0 ) {
            if(st<1)
                window.location.href = prefix + "?page=1";
            else
                window.location.href = prefix + "?page=" +Math.ceil(ids.length/50);
            document.reload();
        }
        if(ids.length == 0) {

```

```

        document.getElementById("searchhistory").style.visibility = "hidden"
    ;
        document.getElementById("message").style.visibility = "visible";
    }
else {
    document.getElementById("heading").style.visibility = "visible";
}
var n = ids.length;
var search_string=<?php echo json_encode($search_string)?>;
var ts=<?php echo json_encode($ts)?>;
for(var i=0;i<n;i++) {
    var entry = document.createElement('div');
    entry.classList = "entry";
    entry.id = "entry"+(i+1);
    var checkbox = document.createElement('input');
    checkbox.type = "checkbox";
    checkbox.name = "checkbox";
    checkbox.classList = "checkbox";
    checkbox.value = ids[i];
    checkbox.id = "id"+(i+1);
    checkbox.onclick;
    var label = document.createElement('label');
    label.id = "label"+(i+1);
    label.classList = "label";
    var lb = document.createElement('br');
    lb.id = "lb"+(i+1);
    label.htmlFor = search_string[i];
    label.appendChild(document.createTextNode('\u00A0\u00A0\u00A0'.concat(
ts[i]).concat(' \u00A0\u00A0\u00A0\u00A0\u00A0-
\u00A0\u00A0\u00A0\u00A0\u00A0').concat(search_string[i]))));
    entry.appendChild(checkbox);
    entry.appendChild(label);
    entry.appendChild(lb);
    t.appendChild(entry);
}

var id_array = new Array();
$(document).on('change', '[type=checkbox]', function(e) {
    var $c=0;
    var checked = $(this).val();
    if ($(this).is(':checked')) {
        id_array.push(checked);
    }
    else {
        id_array.splice($.inArray(checked, id_array),1);
    }
    if(id_array.length>0) {
        document.getElementById('delete').style.visibility = 'visible';
    }
})

```

```

        document.getElementById('del-btn').style.visibility = 'visible';
    }
    else {
        document.getElementById('del-btn').style.visibility = 'hidden';
        document.getElementById('delete').style.visibility = 'hidden';
    }
    $('#delete span').html(id_array.length+" Selected");
});
var limit = ids.length;
var start = 50*(page-1)+1;
var end = Math.min(50*page,ids.length);
document.getElementById("heading").innerText = "Showing "+start+"-
"+end+" of "+limit+" items";
if(!(end>=limit || end<1)) {
    document.getElementById("next-btn").style.visibility = "visible";
}
if(!(start<=1 || start>limit)) {
    document.getElementById("prev-btn").style.visibility = "visible";
}
for(var i=1;i<start;i++) {
    try {
        document.getElementById("entry"+i).style.display = 'none';
    }
    catch(err) {
        break;
    }
}
for(var i=end+1;i<=ids.length;i++) {
    try {
        document.getElementById("entry"+i).style.display = 'none';
    }
    catch(err) {
        break;
    }
}
function next() {
    page++;
    window.location.href = prefix+"?page="+page;
    document.reload();
}
function prev() {
    page--;
    window.location.href = prefix+"?page="+page;
    document.reload();
}
function del(){
    $.post('delete.php', {'data' : JSON.stringify(id_array)}, function
(response){

```

```
        location.reload();
    });
}
function signOut() {
    window.location.href='http://localhost/Meta-
Stream/home/logout.php';
    localStorage["pagescroll"] = "disabled";
}
</script>
</body>
</html>
```

## 5.23. Delete.php

This page retrieves the IDs of selected Items to delete using jQuery's Post Method. It deletes the selected items in the Search History table of User.

```
<?php
    session_start();
    if(!isset($_POST["data"])) {
        header("Location: searchhistory.php");
    }
    if(!isset($_SESSION["email"])) {
        header("Location: ../../home/index.php");
    }

    $data = json_decode($_POST['data']);
    $user_id = $_SESSION["userid"];

    define('DB_SERVER', 'localhost');
    define('DB_USERNAME', 'root');
    define('DB_PASSWORD', '');
    define('DB_DATABASE', 'user_database');

    $conn = mysqli_connect(DB_SERVER,DB_USERNAME,DB_PASSWORD,DB_DATABASE);

    for($i=0;$i<sizeof($data);$i++) {
        $query = "DELETE FROM ".$user_id."sh WHERE id=".$data[$i];
        $sql=mysqli_query($conn,$query);
    }
?>
```

## 7.24. WatchHistory.php

This page previews the Watch Activity of User. The Watch History items are Ordered Starting from the most Recent ones. User can select any number of items and opt to delete.

```
<?php
    session_start();
    if(!isset($_SESSION["email"])) {
        header("Location: ../../home/index.php");
    }

    $username = $_SESSION["username"];
    $user_id = $_SESSION["userid"];
    $email = $_SESSION["email"];

    define('DB_SERVER', 'localhost');
    define('DB_USERNAME', 'root');
    define('DB_PASSWORD', '');
    define('DB_DATABASE', 'user_database');
    $conn = mysqli_connect(DB_SERVER,DB_USERNAME,DB_PASSWORD,DB_DATABASE);

    $query = "select * from ".$user_id."wh";
    $sql=mysqli_query($conn,$query);
    $id=array();
    $video_ids=array();
    $ts=array();

    if ($sql->num_rows > 0) {
        while($row = $sql->fetch_assoc()) {
            array_push($id,$row["id"]);
            array_push($video_ids,$row["videoid"]);
            array_push($ts,$row["ts"]);
        }
    }
    $id = array_reverse($id);
    $video_ids = array_reverse($video_ids);
    $ts = array_reverse($ts);
    $thumbnail = array();
    $filename = array();

    $host="localhost";
    $dbUsername="root";
    $dbPassword="";
    $dbname="videodatabase";

    $conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);
    if(mysqli_connect_error()) {
        echo "Connection Error";
        die('Connect Error('.mysqli_connect_errno().')'.mysqli_connect_error());
    }
```

```

        }
        for($i=0;$i<sizeof($id);$i++) {
            $temp = $video_ids[$i];
            $sql = "select * from video where id = ".$temp;
            $result = $conn->query($sql);
            if(mysqli_num_rows($result) > 0) {
                while($row = mysqli_fetch_assoc($result)) {
                    array_push($thumbnail,$row["thumbnail"]);
                    array_push($filename,$row["filename"]);
                }
            }
        }
    ?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" href="style1.css">
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
    <title>Watch history</title>
</head>
<body>
    <div id="showcaseTop" class="showcase-top">
        <a href="../../home/index.php"></a>
        <button id="userlogout" onclick="signOut()" alt="Sign Out">Sign Out</button>
        <a id="myaccount" href="../dashboard.php"></a>
        <div id="delete">
            <span id="selected">0 Selected</span>
            <button id="del-btn" onclick="del()">Delete</button>
        </div>
        <button id="prev-btn" onclick="prev()">Previous</button>
        <button id="next-btn" onclick="next()">Next</button>
    </div>
    <h1 id="title">Manage Your Watch History</h1>
    <h2 id="heading" style="visibility: hidden; text-align: center;"></h2>
    <div id="container">
        <div id="watchhistory">
        </div>
    </div>
    <h2 id="message" style="visibility: hidden; text-align: center;">
        Your Watch History is Empty.<br>Please come back later.
    </h2>

```

```

<script>
    var url = window.location.href;
    var length = url.length;
    var page = 1;
    var prefix = "http://localhost/Meta-
Stream/myaccount/watch_history/watchhistory.php";
    function hasUpperCase(str) {
        return (/^[A-Z]/.test(str));
    }
    function beautify(name) {
        var newName = "";
        for(var i=0;i<name.length;i++) {
            if(hasUpperCase(name.substring(i,i+1))) {
                newName += " "+name.substring(i,i+1);
            }
            else {
                newName += name.substring(i,i+1);
            }
        }
        newName = newName.substring(0,newName.length-4);
        return newName;
    }
    if(url.substring(length-3,length)=="php") {
        window.location.href = url + "?page=1";
    }
    else {
        page = parseInt(url.substring(url.indexOf("=")+1,length));
    }
    t = document.getElementById("watchhistory");
    var ids=<?php echo json_encode($id)?>;
    var st = (page-1)*20+1;
    if((st<1 || st>ids.length) && ids.length!=0 ) {
        if(st<1)
            window.location.href = prefix + "?page=1";
        else
            window.location.href = prefix + "?page=" +Math.ceil(ids.length/20);
        document.reload();
    }
    if(ids.length == 0) {
        document.getElementById("watchhistory").style.visibility = "hidden";
        document.getElementById("message").style.visibility = "visible";
    }
    else {
        document.getElementById("heading").style.visibility = "visible";
    }
    var n = ids.length;
    var video_ids=<?php echo json_encode($video_ids);?>;
    var ts=<?php echo json_encode($ts);?>;

```

```

var thumbs = <?php echo json_encode($thumbnail);?>;
var filenames = <?php echo json_encode($filename);?>;
for(var i=0;i<n;i++) {
var entry = document.createElement('div');
entry.classList = "entry";
entry.id = "entry"+(i+1);
var checkbox = document.createElement('input');
checkbox.type = "checkbox";
checkbox.name = "checkbox";
checkbox.classList = "checkbox";
checkbox.value = ids[i];
checkbox.id = "id"+(i+1);
checkbox.onclick;
var label = document.createElement('label');
label.id = "label"+(i+1);
label.classList = "label";
var playLink = document.createElement('a');
playLink.href = "../../home/videoplayback.php?"+ video_ids[i];
var thumb = document.createElement('img');
thumb.src = thumbs[i];
thumb.id = "thumb"+(i+1);
thumb.classList = "thumbnail";
playLink.appendChild(thumb);
var lb = document.createElement('br');
lb.id = "lb"+(i+1);
label.htmlFor = ids[i];
label.appendChild(document.createTextNode(' \u00A0\u00A0\u00A0'.concat(
ts[i]).concat(' \u00A0\u00A0\u00A0\u00A0\u00A0-
\u00A0\u00A0\u00A0\u00A0\u00A0').concat(beautify(filenames[i]))));
entry.appendChild(checkbox);
entry.appendChild(label);
entry.appendChild(playLink);
entry.appendChild(lb);
t.appendChild(entry);
}

var id_array = new Array();
$(document).on('change', '[type=checkbox]', function(e) {
    var $c=0;
    var checked = $(this).val();
    if ($(this).is(':checked')) {
        id_array.push(checked);
    }
    else {
        id_array.splice($.inArray(checked, id_array),1);
    }
    if(id_array.length>0) {
        document.getElementById('delete').style.visibility = 'visible';
    }
})

```

```

        document.getElementById('del-btn').style.visibility = 'visible';
    }
    else {
        document.getElementById('del-btn').style.visibility = 'hidden';
        document.getElementById('delete').style.visibility = 'hidden';
    }
    $('#delete span').html(id_array.length+" Selected");
});

var limit = ids.length;
var start = 20*(page-1)+1;
var end = Math.min(20*page,ids.length);
document.getElementById("heading").innerText = "Showing "+start+"-
"+end+" of "+limit;
if(!(end>=limit || end<1)) {
    document.getElementById("next-btn").style.visibility = "visible";
}
if(!(start<=1 || start>limit)) {
    document.getElementById("prev-btn").style.visibility = "visible";
}
for(var i=1;i<start;i++) {
    try {
        document.getElementById("entry"+i).style.display = 'none';
    }
    catch(err) {
        break;
    }
}
for(var i=end+1;i<=ids.length;i++) {
    try {
        document.getElementById("entry"+i).style.display = 'none';
    }
    catch(err) {
        break;
    }
}
function next() {
    page++;
    window.location.href = prefix+"?page="+page;
    document.reload();
}
function prev() {
    page--;
    window.location.href = prefix+"?page="+page;
    document.reload();
}
function del(){
    $.post('delete.php', {'data' : JSON.stringify(id_array)}, function
(response){

```

```
        location.reload();
    });
}
function signOut() {
    window.location.href='http://localhost/Meta-
Stream/home/logout.php';
    localStorage["pagescroll"] = "disabled";
}
</script>
</body>
</html>
```

## 5.25. Delete.php

This page retrieves the IDs of selected Items to delete using jQuery's Post Method. It deletes the selected items in the Watch History table of User.

```
<?php
    session_start();
    if(!isset($_POST["data"])) {
        header("Location: searchhistory.php");
    }
    if(!isset($_SESSION["email"])) {
        header("Location: ../../home/index.php");
    }

    $data = json_decode($_POST['data']);
    $user_id = $_SESSION["userid"];

    define('DB_SERVER', 'localhost');
    define('DB_USERNAME', 'root');
    define('DB_PASSWORD', '');
    define('DB_DATABASE', 'user_database');

    $conn = mysqli_connect(DB_SERVER,DB_USERNAME,DB_PASSWORD,DB_DATABASE);

    for($i=0;$i<sizeof($data);$i++) {
        $query = "DELETE FROM ".$user_id.".wh WHERE id=".$data[$i];
        $sql=mysqli_query($conn,$query);
    }
?>
```

## 5.26. DownloadHistory.php

This page previews the Download Activity of User. The Download History items are Ordered Starting from the most Recent ones. User can select any number of items and opt to delete.

```
<?php
session_start();
if(!isset($_SESSION["email"])) {
    header("Location: ../../home/index.php");
}

$username = $_SESSION["username"];
$user_id = $_SESSION["userid"];
$email = $_SESSION["email"];

define('DB_SERVER', 'localhost');
define('DB_USERNAME', 'root');
define('DB_PASSWORD', '');
define('DB_DATABASE', 'user_database');
$conn = mysqli_connect(DB_SERVER,DB_USERNAME,DB_PASSWORD,DB_DATABASE);

$query = "select * from ".$user_id.".dh";
$sql=mysqli_query($conn,$query);
$id=array();
$video_ids=array();
$ts=array();

if ($sql->num_rows > 0) {
    while($row = $sql->fetch_assoc()) {
        array_push($id,$row["id"]);
        array_push($video_ids,$row["videoid"]);
        array_push($ts,$row["ts"]);
    }
}
$id = array_reverse($id);
$video_ids = array_reverse($video_ids);
$ts = array_reverse($ts);
$thumbnail = array();
$filename = array();

$host="localhost";
$dbUsername="root";
$dbPassword="";
$dbname="videodatabase";

$conn=new mysqli($host,$dbUsername,$dbPassword,$dbname);
if(mysqli_connect_error()) {
    echo "Connection Error";
```

```

        die('Connect Error('.mysqli_connect_errno().')'.mysqli_connect_error());
    }
    for($i=0;$i<sizeof($id);$i++) {
        $temp = $video_ids[$i];
        $sql = "select * from video where id = ".$temp;
        $result = $conn->query($sql);
        if(mysqli_num_rows($result) > 0) {
            while($row = mysqli_fetch_assoc($result)) {
                array_push($thumbnail,$row["thumbnail"]);
                array_push($filename,$row["filename"]);
            }
        }
        else {
            echo "0 results";
        }
    }
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" href="style1.css">
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
    <title>Download history</title>
</head>
<body>
    <div id="showcaseTop" class="showcase-top">
        <a href="../../home/index.php"></a>
        <button id="userlogout" onclick="signOut()" alt="Sign Out">Sign Out</button>
        <a id="myaccount" href="../dashboard.php"></a>
        <div id="delete">
            <span id="selected">0 Selected</span>
            <button id="del-btn" onclick="del()">Delete</button>
        </div>
        <button id="prev-btn" onclick="prev()">Previous</button>
        <button id="next-btn" onclick="next()">Next</button>
    </div>
    <h1 id="title">Manage Your Download History</h1>
    <h2 id="heading" style="visibility: hidden; text-align: center;"></h2>
    <div id="container">
        <div id="downloadhistory">
        </div>

```

```

</div>
<h2 id="message" style="visibility: hidden; text-align: center;">
    Your Download History is Empty.<br>Please come back later.
</h2>
<script>
    var url = window.location.href;
    var length = url.length;
    var page = 1;
    var prefix = "http://localhost/Meta-
Stream/myaccount/download_history/downloadhistory.php";
    function hasUpperCase(str) {
        return (/^[A-Z]/.test(str));
    }
    function beautify(name) {
        var newName = "";
        for(var i=0;i<name.length;i++) {
            if(hasUpperCase(name.substring(i,i+1))) {
                newName += " "+name.substring(i,i+1);
            }
            else {
                newName += name.substring(i,i+1);
            }
        }
        newName = newName.substring(0,newName.length-4);
        return newName;
    }
    if(url.substring(length-3,length)==="php") {
        window.location.href = url + "?page=1";
    }
    else {
        page = parseInt(url.substring(url.indexOf("=")+1,length));
    }
    t = document.getElementById("downloadhistory");
    var ids=<?php echo json_encode($id)?>;
    var st = (page-1)*20+1;
    if((st<1 || st>ids.length) && ids.length!=0 ) {
        if(st<1)
            window.location.href = prefix + "?page=1";
        else
            window.location.href = prefix + "?page=" + Math.ceil(ids.length/20);
        document.reload();
    }
    if(ids.length == 0) {
        document.getElementById("downloadhistory").style.visibility = "hidde
n";
        document.getElementById("message").style.visibility = "visible";
    }
    else {

```

```

        document.getElementById("heading").style.visibility = "visible";
    }
    var n = ids.length;
    var video_ids=<?php echo json_encode($video_ids);?>;
    var ts=<?php echo json_encode($ts);?>;
    var thumbs = <?php echo json_encode($thumbnail);?>;
    var filenames = <?php echo json_encode($filename);?>;
    for(var i=0;i<n;i++) {
        var entry = document.createElement('div');
        entry.classList = "entry";
        entry.id = "entry"+(i+1);
        var checkbox = document.createElement('input');
        checkbox.type = "checkbox";
        checkbox.name = "checkbox";
        checkbox.classList = "checkbox";
        checkbox.value = ids[i];
        checkbox.id = "id"+(i+1);
        checkbox.onclick;
        var label = document.createElement('label');
        label.id = "label"+(i+1);
        label.classList = "label";
        var playLink = document.createElement('a');
        playLink.href = "../../home/videoplayback.php?"+ video_ids[i];
        var thumb = document.createElement('img');
        thumb.src = thumbs[i];
        thumb.id = "thumb"+(i+1);
        thumb.classList = "thumbnail";
        playLink.appendChild(thumb);
        var lb = document.createElement('br');
        lb.id = "lb"+(i+1);
        label.htmlFor = ids[i];
        label.appendChild(document.createTextNode('\u00A0\u00A0\u00A0'.concat(
            ts[i]).concat('\u00A0\u00A0\u00A0\u00A0\u00A0-
            \u00A0\u00A0\u00A0\u00A0\u00A0').concat(beautify(filenames[i]))));
        entry.appendChild(checkbox);
        entry.appendChild(label);
        entry.appendChild(playLink);
        entry.appendChild(lb);
        t.appendChild(entry);
    }

    var id_array = new Array();
    $(document).on('change', '[type=checkbox]', function(e) {
        var $c=0;
        var checked = $(this).val();
        if ($(this).is(':checked')) {
            id_array.push(checked);
        }
    })

```

```

        else {
            id_array.splice($.inArray(selected, id_array),1);
        }
        if(id_array.length>0) {
            document.getElementById('delete').style.visibility = 'visible';
            document.getElementById('del-btn').style.visibility = 'visible';
        }
        else {
            document.getElementById('del-btn').style.visibility = 'hidden';
            document.getElementById('delete').style.visibility = 'hidden';
        }
        $('#delete span').html(id_array.length+" Selected");
    });
    var limit = ids.length;
    var start = 20*(page-1)+1;
    var end = Math.min(20*page,ids.length);
    document.getElementById("heading").innerText = "Showing "+start+"-
"+end+" of "+limit;
    if(!(end>=limit || end<1)) {
        document.getElementById("next-btn").style.visibility = "visible";
    }
    if(!(start<=1 || start>limit)) {
        document.getElementById("prev-btn").style.visibility = "visible";
    }
    for(var i=1;i<start;i++) {
        try {
            document.getElementById("entry"+i).style.display = 'none';
        }
        catch(err) {
            break;
        }
    }
    for(var i=end+1;i<=ids.length;i++) {
        try {
            document.getElementById("entry"+i).style.display = 'none';
        }
        catch(err) {
            break;
        }
    }
    function next() {
        page++;
        window.location.href = prefix+"?page="+page;
        document.reload();
    }
    function prev() {
        page--;
        window.location.href = prefix+"?page="+page;
    }
}

```

```
        document.reload();
    }
    function del(){
        $.post('delete.php', {'data' : JSON.stringify(id_array)}, function
(response){
            location.reload();
        });
    }
    function signOut() {
        window.location.href='http://localhost/Meta-
Stream/home/logout.php';
        localStorage["pagescroll"] = "disabled";
    }
</script>
</body>
</html>
```

## 5.27. Delete.php

This page retrieves the IDs of selected Items to delete using jQuery's Post Method. It deletes the selected items in the Download History table of User.

```
<?php
    session_start();
    if(!isset($_POST["data"])) {
        header("Location: searchhistory.php");
    }
    if(!isset($_SESSION["email"])) {
        header("Location: ../../home/index.php");
    }

    $data = json_decode($_POST['data']);
    $user_id = $_SESSION["userid"];

    define('DB_SERVER', 'localhost');
    define('DB_USERNAME', 'root');
    define('DB_PASSWORD', '');
    define('DB_DATABASE', 'user_database');

    $conn = mysqli_connect(DB_SERVER,DB_USERNAME,DB_PASSWORD,DB_DATABASE);

    for($i=0;$i<sizeof($data);$i++) {
        $query = "DELETE FROM ".$user_id."dh WHERE id=".$data[$i];
        $sql=mysqli_query($conn,$query);
    }
?>
```

## 5.28. Logout.php

This page destroys Session variables and Local Storage Variables used by the Application in User's machine, resulting in Log out of User from the Application.

```
<?php
session_start();
session_unset();
session_destroy();
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>

</body>
<script>
    localStorage.clear();
    window.location.href='http://localhost/Meta-Stream/home/index.php';
</script>
</html>
```

## 5.29. Style Sheets

### 5.29.1. Home Page Stylesheet

```
* {
    border: 0;
    box-sizing: border-box;
    margin: 0;
    padding: 0;
}
:root {
    --primary-color: #e50914;
    --secondary-color: #151728;
    background-color: black;
    color: white;
    -ms-overflow-style: none;
    scrollbar-width: none;
}
:root::-webkit-scrollbar {
    display: none;
}
#search {
    height: 40px;
    width: 50px;
    visibility: hidden;
    border-radius: 50px;
    display: -webkit-inline-flex;
    position: absolute;
    margin-left: calc(50% - 290px);
    margin-top: 13px;
    justify-content: center;
    align-items: center;
    font-size: 28px;
    transition: 0.3s;
    color: white;
    z-index: 20;
}
#search-input {
    height: 100%;
    width: 0px;
    font-size: 20px;
    background: none;
    color: white;
    margin-left: 0px;
    padding-bottom: 12px;
    outline: 0;
    visibility: hidden;
    transition: 0.3s;
```

```

}

#search.active {
  width: 350px;
  color: white;
  margin-left: calc(50% - 435px);
  border: solid 2px;
}
#search-input.active {
  width: 260px;
  color: white;
  visibility: visible;
}
.fa {
  color: var(--primary-color);
}
.fa:hover {
  opacity: 0.7;
}
#search-input.active #search {
  margin-left: 20px;
  color: white;
  border: solid 2px;
}
body {
  margin: 0;
  padding: 0;
  background: linear-
gradient(rgba(0,0,0,0.7), rgba(0,0,0,0.7)), url("background.jpg") no-repeat ;
  background-size: 100% 100vh;
  font-family: sans-serif;
  overflow: hidden;
}
.login-box {
  width: 64%;
  height: 90vh;
  background: rgba(0,0,0,0.4);
  color: #fff;
  left: 50%;
  position: absolute;
  transform: translate(-50%, -50%);
  box-sizing: border-box;
  padding: 50px;
}
.login-box a {
  color: #e50914;
}
.login-box h1 {

```

```
font-family: 'DejaVu Serif';
padding: 0 0 20px;
text-align: center;
font-size: 40px;
}
.login-box p {
margin: 0;
padding: 0;
font-size: 24px;
font-weight: bold;
}
.login-box input {
width: 100%;
margin-bottom: 20px;
padding-left: 10px;
}
.login-box input:-webkit-autofill,
.login-box input:-webkit-autofill:hover,
.login-box input:-webkit-autofill:focus {
-webkit-text-fill-color: white;
-webkit-box-shadow: 0 0 0px 1000px #000 inset;
box-shadow: 0 0 0 px 1000px #000 inset;
border-bottom: 1px solid #000;
}
.login-box input[type="text"], input[type="password"] {
border: none;
border-bottom: 1px solid #fff;
background: transparent;
outline: none;
height: 40px;
color: #fff;
font-size: 16px;
}
.login-box input[type="submit"] {
border: none;
outline: none;
height: 40px;
background: var(--primary-color);
color: #fff;
font-size: 18px;
border-radius: 100px;
}
.showcase {
width: 100%;
height: 100vh;
position: relative;
opacity: 1;
}
```

```
.showcase-top {
  position: fixed;
  overflow: hidden;
  background-color: var(--secondary-color);
  height: 64px;
  top: 0;
  width: 100%;
  z-index: 1;
}
.showcase-top img {
  margin-top: -10px;
  width: 250px;
}
.showcase-top img:hover {
  opacity: 0.7;
}
#userlogout {
  visibility: hidden;
  color: white;
  background: var(--primary-color);
  font-size: 1rem;
  width: 80px;
  height: 35px;
}
#userlogout:hover {
  opacity: 0.7;
}
#avatar {
  width: 45px;
  height: 45px;
}
#avatar:hover {
  opacity: 0.7;
}
#myaccount {
  display: inline-block;
  margin-left: calc(100% - 440px);
  visibility: hidden;
}
.showcase-top button {
  position: absolute;
  margin-top: -10px;
  border-radius: 5px;
  border: none;
  text-align: center;
  display: inline-block;
  color: #ffffff;
  outline: none;
```

```
    font-size: 1rem;
    width: 80px;
    height: 35px;
    top: 44px;
    right: 10px;
    transform: translate(-50%, -50%);
    background: var(--primary-color);
}
.showcase-top button:hover {
    color: #000;
}
.showcase-content {
    position: relative;
    padding-top: 0;
    margin-top: 0;
    margin: auto;
    display: flex;
    flex-direction: column;
    justify-content: center;
    align-items: center;
    text-align: center;
    padding-top: 15em;
    opacity: 1;
}
.showcase-content h1 {
    color: white;
    font-weight: 700;
    font-size: 4rem;
    line-height: 1.1;
    margin: 0 0 2rem;
}
.showcase-content p {
    text-transform: uppercase;
    color: #fff;
    font-weight: 400;
    font-size: 1.5rem;
    line-height: 1.25;
    margin: 0 0 2rem;
}
.btn {
    display: inline-block;
    background: var(--primary-color);
    color: #fff;
    padding: 0.4rem 1.3rem;
    font-size: 1rem;
    text-align: center;
    border: top;
```

```

    cursor: pointer;
    margin-right: 0.5rem;
    outline: none;
    box-shadow: 0 1px 0 rgba(0,0,0,0.45);
    border-radius: 2px;
}
.btn-rounded {
    border-radius: 5px;
    position: absolute;
    margin-left: 93%;
    margin-top: 50px;
    width: auto;
}
.btn-xl {
    outline: none;
    font-size: 2rem;
    font-weight: 500;
    padding: 1rem 1.5rem;
    text-transform: uppercase;
    width: 320px;
    border-radius: 10px;
    height: auto;
}
#footer {
    display: flex;
    width: 100%;
    bottom: 0;
    background-color: var(--secondary-color);
    height: 120px;
}
#connect {
    margin: auto auto;
    margin-left: 360px;
    display: inline-flex;
}
#connect #rights {
    margin-left: 80px;
    font-family: -apple-
system, BlinkMacSystemFont, 'Segoe UI', Roboto, Oxygen, Ubuntu, Cantarell, 'Open Sans', 'Helvetica Neue', sans-serif;
}
#facebook {
    width: 56px;
    height: 56px;
    float: left;
    margin: auto auto;
}
#connect p {

```

```

    margin: auto auto;
    color: white;
}
#facebook:hover {
    opacity: 0.7;
}
#aboutDevelopers {
    display: block;
    margin: auto 0;
    margin-right: 100px;
    align-items: center;
}
#aboutDevelopers h3 {
    color: white;
}
#contribute {
    height: 50px;
    border-radius: 5px;
    width: auto;
    padding: 4px 10px;
    background-color: green;
    font-size: large;
    border: solid 1px black;
    margin-left: 64px;
}
#contribute:hover {
    opacity: 0.8;
}
#contribute i {
    color: black;
}
#contribute i:hover {
    color: black;
    opacity: 1;
}
#contribute a {
    text-decoration: none;
    color: black;
}
@media only screen and (max-width: 360px) {
    body {
        margin: 0;
        padding: 0;
        background: linear-
gradient(rgba(0,0,0,0.8), rgba(0,0,0,0.8)), url("background1.jpg") no-repeat;
        background-size: auto 800px;
        font-family: sans-serif;
    }
}

```

```
.showcase-top img {
  width: 200px;
  position: absolute;
  opacity: 1;
  top: 10px;
}
.showcase-top button {
  position: absolute;
  border-radius: 5px;
  border: none;
  text-align: center;
  display: inline-block;
  color: #ffffff;
  outline: none;
  font-size: 0.9rem;
  width: 60px;
  height: 35px;
  top: 44px;
  right: 0px;
  transform: translate(-50%,-50%);
  background: var(--primary-color);
}
.btn {
  display: inline-block;
  background: var(--primary-color);
  color: #fff;
  padding: 0.4rem 1.3rem;
  font-size: 1rem;
  text-align: center;
  border: top;
  cursor: pointer;
  margin-right: 0.5rem;
  outline: none;
  box-shadow: 0 1px 0 rgba(0,0,0,0.45);
  border-radius: 2px;
}
.btn-rounded {
  border-radius: 5px;
  position: relative;
  margin-right: 20px;
  margin-top: 50px;
}
.fb-login-button {
  padding-top: 20px;
  position: relative;
  padding-left: 0%;
}
.login-box {
```

```

        width: 100%;
        height: 70vh;
        background: rgba(25,25,25,0.9);
        color: #fff;
        left: 50%;
        position: absolute;
        transform: translate(-50%,-50%);
        box-sizing: border-box;
        padding: 50px;
    }
}

.free-space {
    background: linear-gradient(0,0,0,0);
    padding-top: 100px;
    padding-bottom: 100px;
}

#carousels {
    background: linear-gradient(0,0,0,0);
    padding-top: 0px;
    padding-bottom: 0px;
}

.item img {
    width: 100%;
}

.container {
    max-width: 1400px;
    height: 140px;
    margin: 100px auto;
    visibility: hidden;
}

.container h1 {
    color: white;
    margin-left: -40px;
}

.logo-slider .item {
    background-color: black;
    box-shadow: 0 4px 5px black;
    border: 2px solid #111;
    transition: all ease 0.3s;
}

.logo-slider .slick-slide {
    margin: 15px;
}

.slick-next:before,
.slick-prev:before {
    color: var(--primary-color);
    font-size: 24px;
}

```

```
.item:hover {  
    display: block;  
    transition: all ease 0.2s;  
    transform: scale(1.1) translateY(-5px);  
}
```

## 5.29.2. Signup Stylesheet

```
:root {  
    --primary-color: #e50914;  
}  
.navbar-dark {  
    background-color: black;  
}  
.fb-login-button {  
    position: relative;  
    padding-left: 18%;  
}  
body {  
    margin: 0;  
    padding: 0;  
    background: linear-  
gradient(rgba(0,0,0,0.8), rgba(0,0,0,0.8)), url("background.jpg") no-repeat ;  
    background-size: 100% 100vh;  
    font-family: sans-serif;  
}  
#signIn {  
    margin: 0 70px;  
}  
#invalid1, #invalid2, #invalid3, #invalid4 {  
    color: var(--primary-color);  
    margin-top: 0px;  
    padding-top: 0px;  
}  
.login-box {  
    width: 480px;  
    height: 640px;  
    background: rgba(0,0,0,0.5);  
    color: #fff;  
    top: 50%;  
    left: 50%;  
    position: absolute;  
    transform: translate(-50%, -50%);  
    box-sizing: border-box;  
    padding: 50px;  
}  
.login-box a {  
    color: #e50914;  
}  
.login-box h1 {  
    font-family: 'DejaVu Serif';  
    padding: 0 0 20px;  
    text-align: center;  
    font-size: 40px;  
}
```

```
.login-box p {
    margin: 0;
    padding: 0;
    font-size: 24px;
    font-weight: bold;
}
.login-box input {
    width: 100%;
    margin-bottom: 20px;
}
.login-box input[type="text"], input[type="password"] {
    border: none;
    border-bottom: 1px solid #fff;
    background: transparent;
    outline: none;
    height: 40px;
    color: #ffff;
    font-size: 16px;
}
.login-box input[type="submit"] {
    border: none;
    outline: none;
    height: 40px;
    background: var(--primary-color);
    color: #fff;
    font-size: 18px;
    border-radius: 100px;
}
.login-box input:-webkit-autofill,
.login-box input:-webkit-autofill:hover,
.login-box input:-webkit-autofill:focus {
    transition: background-color 5000s ease-in-out 0s;
    -webkit-text-fill-color: #fff !important;
    caret-color: white;
}
.showcase {
    width: 100%;
    height: 100vh;
    position: relative;
    opacity: 1;
}
.showcase-top {
    position: relative;
    height: 10px;
    opacity: 1;
}
.showcase-top img {
```

```
    width: 250px;
    position: absolute;
    opacity: 1;
}
.showcase-top a {
    position: absolute;
    top: 20%;
    transform: translate(-50%,-50%);
}
.showcase-top a:hover {
    opacity: 0.7;
}
.showcase-content {
    position: relative;
    margin: auto;
    display: flex;
    flex-direction: column;
    justify-content: center;
    align-items: center;
    text-align: center;
    margin-top: 9rem;
    opacity: 1;
}
.showcase-content h1 {
    color: white;
    font-weight: 700;
    font-size: 3.2rem;
    line-height: 1.1;
    margin: 0 0 2rem;
}
.showcase-content p {
    text-transform: uppercase;
    color: #fff;
    font-weight: 400;
    font-size: 1rem;
    line-height: 1.25;
    margin: 0 0 2rem;
}
.btn {
    display: inline-block;
    background: var(--primary-color);
    color: #fff;
    padding: 0.4rem 1.3rem;
    font-size: 1rem;
    text-align: center;
    border: top;
    cursor: pointer;
    margin-right: 0.5rem;
}
```

```

outline: none;
box-shadow: 0 1px 0 rgba(0,0,0,0.45);
border-radius: 2px;
}
.btn-rounded {
    border-radius: 5px;
    position: absolute;
    margin-left: 93%;
    margin-top: 3%;
    width: auto;
}
.btn-xl {
    font-size: 2rem;
    padding: 1rem 1.5rem;
    text-transform: uppercase;
    width: auto;
    height: auto;
}
@media only screen and (max-width: 1080px) {
    .showcase {
        width: 100%;
        height: 100vh;
        position: relative;
        opacity: 1;
    }
    .showcase-top {
        position: relative;
        height: 10px;
        opacity: 1;
    }
    .showcase-top img {
        width: 200px;
        position: absolute;
        opacity: 1;
    }
    .login-box {
        width: 360px;
        height: auto;
        background: rgba(0,0,0,0.5);
        color: #fff;
        top: 54%;
        left: 50%;
        position: absolute;
        transform: translate(-50%, -50%);
        box-sizing: border-box;
        padding: 30px;
    }
    .login-box a {

```

```
        color: #e50914;
    }
.login-box h1 {
    font-family: 'DejaVu Serif';
    padding: 0 0 20px;
    text-align: center;
    font-size: 32px;
}
.login-box p {
    margin: 0;
    padding: 0;
    font-size: 16px;
    font-weight: bold;
}
.login-box input {
    width: 100%;
    margin-bottom: 20px;
}
.login-box input[type="text"], input[type="password"] {
    border: none;
    border-bottom: 1px solid #fff;
    background: transparent;
    outline: none;
    height: 40px;
    color: #fff;
    font-size: 16px;
}
.login-box input[type="submit"] {
    border: none;
    outline: none;
    height: 40px;
    background: var(--primary-color);
    color: #fff;
    font-size: 18px;
    border-radius: 100px;
}
.fb-login-button {
    position: relative;
    padding-left: 11%;
}
}
```

### 5.29.3. Verify.php Stylesheet

```
:root {  
    --primary-color: #e50914;  
}  
.navbar-dark {  
    background-color: black;  
}  
.fb-login-button {  
    position: relative;  
    padding-left: 18%;  
}  
body {  
    margin: 0;  
    padding: 0;  
    background: linear-  
gradient(rgba(0,0,0,0.8), rgba(0,0,0,0.8)), url("background.jpg") no-repeat ;  
    background-size: 100% 100vh;  
    font-family: sans-serif;  
}  
#signIn {  
    margin: 0 70px;  
}  
#invalid1, #invalid2, #invalid3, #invalid4 {  
    color: var(--primary-color);  
    margin-top: 0px;  
    padding-top: 0px;  
}  
.login-box {  
    width: 880px;  
    height: 400px;  
    background: rgba(0,0,0,0.7);  
    color: #fff;  
    top: 50%;  
    left: 50%;  
    position: absolute;  
    transform: translate(-50%, -50%);  
    box-sizing: border-box;  
    padding: 50px;  
}  
.login-box a {  
    color: #e50914;  
}  
.login-box h1 {  
    font-family: 'DejaVu Serif';  
    padding: 0 0 20px;  
    text-align: center;  
    font-size: 40px;  
}
```

```
.login-box p {
    margin: 0;
    padding: 0;
    font-size: 20px;
    font-family: Verdana, Geneva, Tahoma, sans-serif;
    color: var(--primary-color);
}
#otp {
    margin-top: 20px;
}
input {
    width: 30px;
    height: 50px;
    background-color: lighten(--primary-color, 5%);
    background: #000;
    border: 1px solid white;
    line-height: 50px;
    text-align: center;
    font-size: 24px;
    font-family: 'Raleway', sans-serif;
    font-weight: 200;
    color: white;
    margin: 10px 1px;
}
.splitter {
    padding: 0 1px;
    color: white;
    font-size: 24px;
}
.login-box input[type="submit"] {
    border: none;
    outline: none;
    height: 44px;
    background: var(--primary-color);
    color: #fff;
    font-size: 18px;
    border-radius: 100px;
    width: 100px;
    padding-top: 0px;
    vertical-align: middle;
    margin-left: 20px;
}
.showcase {
    width: 100%;
    height: 100vh;
    position: relative;
    opacity: 1;
}
```

```

.showcase-top {
    position: relative;
    height: 10px;
    opacity: 1;
}
.showcase-top img {
    width: 250px;
    position: absolute;
    opacity: 1;
}
.showcase-top a {
    position: absolute;
    top: 20%;
    transform: translate(-50%, -50%);
}
.showcase-top a:hover {
    opacity: 0.7;
}

@media only screen and (max-width: 1080px) {
    .showcase {
        width: 100%;
        height: 100vh;
        position: relative;
        opacity: 1;
    }
    .showcase-top {
        position: relative;
        height: 10px;
        opacity: 1;
    }
    .showcase-top img {
        width: 200px;
        position: absolute;
        opacity: 1;
    }
    .login-box {
        width: 360px;
        height: auto;
        background: rgba(0,0,0,0.5);
        color: #fff;
        top: 54%;
        left: 50%;
        position: absolute;
        transform: translate(-50%, -50%);
        box-sizing: border-box;
        padding: 30px;
    }
}

```

```
.login-box a {
  color: #e50914;
}
.login-box h1 {
  font-family: 'DejaVu Serif';
  padding: 0 0 20px;
  text-align: center;
  font-size: 32px;
}
.login-box p {
  margin: 0;
  padding: 0;
  font-size: 16px;
  font-weight: bold;
}
input {
  width: 30px;
  height: 50px;
  background-color: lighten(--primary-color, 5%);
  border: none;
  line-height: 50px;
  text-align: center;
  font-size: 24px;
  font-family: 'Raleway', sans-serif;
  font-weight: 200;
  color: white;
  margin: 10px 2px;
}
.spitter {
  padding: 0 5px;
  color: white;
  font-size: 24px;
}
.login-box input[type="submit"] {
  border: none;
  outline: none;
  height: 40px;
  background: var(--primary-color);
  color: #fff;
  font-size: 18px;
  border-radius: 100px;
}
.fb-login-button {
  position: relative;
  padding-left: 11%;
}
}
```

#### 5.29.4. Search.php Stylesheet

```
* {
    border: 0;
    box-sizing: border-box;
    margin: 0;
    padding: 0;
}
:root {
    --primary-color: #e50914;
    --secondary-color: #151728;
    background-color: black;
    color: white;
}
#search {
    height: 40px;
    width: 50px;
    border-radius: 50px;
    display: -webkit-inline-flex;
    position: absolute;
    margin-left: calc(50% - 290px);
    margin-top: 13px;
    justify-content: center;
    align-items: center;
    font-size: 28px;
    transition: 0.3s;
    color: white;
    z-index: 20;
}

#search-input {
    height: 100%;
    width: 0px;
    font-size: 20px;
    background: none;
    color: white;
    margin-left: 0px;
    padding-bottom: 12px;
    outline: 0;
    visibility: hidden;
    transition: 0.3s;
}

#search.active {
    width: 350px;
    color: white;
    margin-left: calc(50% - 435px);
    border: solid 2px;
}
```

```
#search-input.active {
    width: 260px;
    color: white;
    visibility: visible;
}
.fa {
    color: var(--primary-color);
}
.fa:hover {
    opacity: 0.7;
}
#search-input.active #search {
    margin-left: 20px;
    color: white;
    border: solid 2px;
}
.showcase {
    width: 100%;
    height: 100vh;
    position: relative;
    opacity: 1;
}
.showcase-top {
    position: fixed;
    overflow: hidden;
    background-color: var(--secondary-color);
    height: 64px;
    top: 0;
    width: 100%;
    z-index: 1;
}
.showcase-top img {
    margin-top: -10px;
    width: 250px;
}
.showcase-top img:hover {
    opacity: 0.7;
}
#userlogout {
    color: white;
    background: var(--primary-color);
    font-size: 1rem;
    width: 80px;
    height: 35px;
}
#userlogout:hover {
    opacity: 0.7;
}
```

```
#avatar {
  width: 45px;
  height: 45px;
}
#avatar:hover {
  opacity: 0.7;
}
#myaccount {
  display: inline-block;
  margin-left: calc(100% - 440px);
}
.showcase-top button {
  position: absolute;
  margin-top: -10px;
  border-radius: 5px;
  border: none;
  text-align: center;
  display: inline-block;
  color: #ffffff;
  outline: none;
  font-size: 1rem;
  width: 80px;
  height: 35px;
  top: 44px;
  right: 10px;
  transform: translate(-50%, -50%);
  background: var(--primary-color);
}
.showcase-top button:hover {
  color: #000;
}
.showcase-content {
  position: relative;
  padding-top: 0;
  margin-top: 0;
  margin: auto;
  display: flex;
  flex-direction: column;
  justify-content: center;
  align-items: center;
  text-align: center;
  padding-top: 15em;
  opacity: 1;
}
.showcase-content h1 {
  color: white;
  font-weight: 700;
  font-size: 4rem;
```

```
    line-height: 1.1;
    margin: 0 0 2rem;
}
.showcase-content p {
    text-transform: uppercase;
    color: #fff;
    font-weight: 400;
    font-size: 1.5rem;
    line-height: 1.25;
    margin: 0 0 2rem;
}

.btn {
    display: inline-block;
    background: var(--primary-color);
    color: #fff;
    padding: 0.4rem 1.3rem;
    font-size: 1rem;
    text-align: center;
    border: top;
    cursor: pointer;
    margin-right: 0.5rem;
    outline: none;
    box-shadow: 0 1px 0 rgba(0,0,0,0.45);
    border-radius: 2px;
}
.btn-rounded {
    border-radius: 5px;
    position: absolute;
    margin-left: 93%;
    margin-top: 50px;
    width: auto;
}
.btn-xl {
    outline: none;
    font-size: 2rem;
    font-weight: 500;
    padding: 1rem 1.5rem;
    text-transform: uppercase;
    width: 320px;
    border-radius: 10px;
    height: auto;
}
#results
{
    display: grid;
    grid-template-columns: auto auto auto auto auto;
    margin-left: 54px;
```

```

        width: 90%;
    }
#results img{
    position: relative;
    width: 240px;
    padding: 10px;
    transition: all ease 0.3s;
}
#results img:hover {
    cursor: pointer;
    opacity: 0.7;
    transition: all ease 0.2s;
    transform: scale(1.1) translateY(-5px);
}
#zeroreresults {
    display: none;
    margin-top: 100px;
    margin-left: 40px;
    font-family: Verdana, Geneva, Tahoma, sans-serif;
    font-size: x-large;
}
#cat
{
    margin-top: 100px;
    background-color: black;
    left: 40px;
    color: white;
    padding-bottom: 100px;
}
#cat h2 {
    font-family: Verdana, Geneva, Tahoma, sans-serif;
    margin-left: 20px;
}
html{
    overflow:scroll;
    overflow-x: hidden;
}
::-webkit-scrollbar{
    width: 0px;
    background: transparent;
}
::-webkit-scrollbar-thumb{
    background: #ff0000;
}
#footer {
    display: flex;
    position: fixed;
    width: 100%;

```

```

    bottom: 0px;
    background-color: var(--secondary-color);
    height: 100px;
}
#connect {
    margin: auto auto;
    margin-left: 360px;
    display: inline-flex;
}
#connect #rights {
    margin-left: 80px;
    font-family: -apple-
system, BlinkMacSystemFont, 'Segoe UI', Roboto, Oxygen, Ubuntu, Cantarell, 'Open Sans', 'Helvetica Neue', sans-serif;
}
#facebook {
    width: 56px;
    height: 56px;
    float: left;
    margin: auto auto;
}
#connect p {
    margin: auto auto;
    color: white;
}
#facebook:hover {
    opacity: 0.7;
}
#aboutDevelopers {
    display: block;
    margin: auto 0;
    margin-right: 100px;
    align-items: center;
}
#aboutDevelopers h3 {
    color: white;
}
#contribute {
    height: 50px;
    border-radius: 5px;
    width: auto;
    padding: 4px 10px;
    background-color: green;
    font-size: large;
    border: solid 1px black;
    margin-left: 64px;
}
#contribute:hover {

```

```
    opacity: 0.8;
}
#contribute i {
    color: black;
}
#contribute i:hover {
    color: black;
    opacity: 1;
}
#contribute a {
    text-decoration: none;
    color: black;
}
```

### 5.29.5. Video Playback Stylesheet

```
:root {  
    --primary-color: #e50914;  
    --secondary-color: #151728;  
    background-color: black;  
    -ms-overflow-style: none;  
    scrollbar-width: none;  
}  
body {  
    background-color: black;  
}  
:root::-webkit-scrollbar {  
    display: none;  
}  
.metastream img {  
    height: 80px;  
}  
.metastream img:hover {  
    opacity: 0.7;  
}  
*{  
    padding:0;  
    margin:0;  
}  
#search {  
    height: 40px;  
    width: 50px;  
    visibility: hidden;  
    border-radius: 50px;  
    display: -webkit-inline-flex;  
    position: absolute;  
    margin-left: calc(50% - 290px);  
    margin-top: 13px;  
    justify-content: center;  
    align-items: center;  
    font-size: 28px;  
    transition: 0.3s;  
    color: white;  
    z-index: 20;  
}  
#search-input {  
    height: 100%;  
    width: 0px;  
    font-size: 20px;  
    background: none;  
    color: white;  
    border: none;  
    margin-left: 0px;
```

```
padding-bottom: 5px;
outline: 0;
visibility: hidden;
transition: 0.3s;
}

#search.active {
width: 350px;
color: white;
margin-left: calc(50% - 435px);
border: solid 2px;
}
#search-input.active {
width: 260px;
border: none;
color: white;
visibility: visible;
}
.fa {
color: var(--primary-color);
background: none;
}
.far {
background: none;
}
.fa:hover {
opacity: 0.7;
}
.showcase-top {
position: fixed;
overflow: hidden;
background-color: var(--secondary-color);
height: 64px;
top: 0;
width: 100%;
z-index: 1;
}
.showcase-top img {
margin-top: -10px;
width: 250px;
}
.showcase-top img:hover {
opacity: 0.7;
}
#userlogout {
visibility: hidden;
color: white;
background: var(--primary-color);
```

```
    font-size: 1rem;
    width: 80px;
    height: 35px;
}
#userlogout:hover {
    opacity: 0.7;
    cursor: pointer;
}
#avatar {
    width: 45px;
    height: 45px;
}
#avatar:hover {
    opacity: 0.7;
}
#myaccount {
    display: inline-block;
    position: absolute;
    margin-left: calc(100% - 440px);
    margin-top: 22px;

}
.showcase-top button {
    position: absolute;
    margin-top: -10px;
    border-radius: 5px;
    border: none;
    text-align: center;
    display: inline-block;
    color: #ffffff;
    outline: none;
    font-size: 1rem;
    width: 80px;
    height: 35px;
    top: 44px;
    right: 10px;
    transform: translate(-50%, -50%);
    background: var(--primary-color);
}
.showcase-top button:hover {
    color: #000;
}
#search-input.active #search {
    margin-left: 20px;
    color: white;
    border: solid 2px;
}
.free-space {
```

```
background: linear-gradient(0,0,0,0);
padding-bottom: 54px;
}
#container {
    width: 100%;
    display: inline-block;
    position: relative;
    align-items: center;
    margin: 0 auto;
    background-color: #0c0c0c;

}

#myframe {
    margin-top: 80px;
    margin-bottom: 60px;
    margin-left: calc(50% - 640px);
}
#details {
    display: grid;
    justify-items: center;
    background-color: #121212;
}
#box {
    width: 50%;
    height: 100%;

    float: left;

}
#thumbnail {
    width: 50%;
    height: 100%;
    float: left;
    display: grid;
    justify-items: center;
    vertical-align: middle;
    align-items: center;
}
#thumbnail p{
    margin-top: 5px;
}
.fa-thumbs-up, .fa-thumbs-down {
    background-color: #121212;
    color: #2f353d;
}
#likes, #dislikes {
```

```
border: none;
color: white;
background-color: #121212;
vertical-align: middle;
padding-bottom: 20px;
}
#dislikes {
    margin-left: 50px;
}
#likes:hover, #dislikes:hover {
    cursor: pointer;
}
#description {
    padding-left: 400px;
}
h1 {
    padding-left: 10px;
    padding-top: 20px;
    padding-bottom: 20px;
    width: 280px;
    color: white;
}
h3 {
    width: 280px;
    color: white;
    padding-top: 10px;
    font-family: Arial, Helvetica, sans-serif;
    display: inline-block;
}
#btnid
{
    margin: auto;
    text-align: center;
    display: grid;
    justify-items: left;
    padding-top: 30px;
    padding-bottom: 10px;
}
.btn
{
    background-color: var(--primary-color);
    padding: 12px 30px;
    font-size: x-large;
    position: relative;

    border: solid 1px black;
}
.btn:hover {
```

```

    cursor: pointer;
    opacity: 0.7;
}
.fa-downlaod {
    color: black;
}
#footer {
    display: flex;
    width: 100%;
    bottom: 0;
    background-color: var(--secondary-color);

    height: 120px;
}
#connect {
    margin: auto auto;
    margin-left: 360px;
    display: inline-flex;
}
#connect #rights {
    margin-left: 80px;
    font-family: -apple-
system, BlinkMacSystemFont, 'Segoe UI', Roboto, Oxygen, Ubuntu, Cantarell, 'Open Sans', 'Helvetica Neue', sans-serif;
}
#facebook {
    width: 56px;
    height: 56px;
    float: left;
    margin: auto auto;
}
#connect p {
    margin: auto auto;
    color: white;
}
#facebook:hover {
    opacity: 0.7;
}
#abouDevelopers {

    font-family: sans-serif;
    position: absolute;
    margin-top: 20px;

    right: 160px;
    align-items: center;
}
#abouDevelopers h2 {

```

```
    color: white;

}

#aboutDevelopers a {
    color: #007bff;
    text-decoration: none;
    background-color: transparent;
}

#aboutDevelopers a:hover {
    text-decoration: underline;
}

#contribute {
    height: 50px;
    border-radius: 5px;
    width: auto;
    padding: 4px 10px;
    background-color: green;
    font-size: large;
    border: solid 1px black;

    margin-left: 64px;
}

#contribute:hover {
    opacity: 0.8;
}

#contribute i {
    color: black;
}

#contribute i:hover {
    color: black;
    opacity: 1;
}

#contribute a {
    text-decoration: none;
    color: black;
}
```

## 5.29.6. Dashboard.php Stylesheet

```
:root {  
    --primary-color: #e50914;  
    --secondary-color: #151728;  
    -ms-overflow-style: none;  
    scrollbar-width: none;  
}  
:root::-webkit-scrollbar {  
    display: none;  
}  
body {  
    background-color: #0c0c0c;  
    font-family: sans-serif;  
}  
.metastream img {  
    height: 80px;  
}  
.metastream img:hover {  
    opacity: 0.7;  
}  
.showcase-top {  
    position: fixed;  
    overflow: hidden;  
    background-color: var(--secondary-color);  
    height: 64px;  
    top: 0;  
    width: 100%;  
    z-index: 1;  
    margin-left: -10px;  
}  
.showcase-top img {  
    margin-top: -10px;  
    width: 250px;  
}  
.showcase-top img:hover {  
    opacity: 0.7;  
}  
#userlogout {  
    color: white;  
    background: var(--primary-color);  
    font-size: 1rem;  
    width: 80px;  
    height: 35px;  
    cursor: pointer;  
}  
#userlogout:hover {  
    opacity: 0.7;  
}
```

```
.showcase-top button {
    position: absolute;
    margin-top: -10px;
    border-radius: 5px;
    border: none;
    text-align: center;
    display: inline-block;
    color: #ffffff;
    outline: none;
    font-size: 1rem;
    width: 80px;
    height: 35px;
    top: 44px;
    right: 10px;
    transform: translate(-50%,-50%);
    background: var(--primary-color);
}
.showcase-top button:hover {
    color: #000;
}
#userinfo {
    width: 100%;
    display: inline-block;
    margin: 100px 0px auto;
    text-align: center;
}
#message {
    margin: 0 auto;
    color: white;
    font-weight: 100;
    text-align: center;
}
#text {
    font-weight: 100;
    margin: 10px auto;
    color: white;
}
.container-holder {
    width: 100%;
    display: grid;
    justify-items: center;
}
.container {
    background-color: #eee;
    display: grid;
    grid-template-rows: 240px 240px;
    grid-template-columns: 420px 420px;
```

```

        grid-gap: 30px;
        padding-left: 20px;
        padding-top: 20px;
        background-color: #0c0c0c;
    }
.item img {
    position: relative;
    margin-left: 260px;
    margin-top: 0px;
    width: 100px;
    height: 100px;
}
.item {
    width: 360px;
    height: 200px;
    padding: 20px;
    font-size: 30px;
    font-family: sans-serif;
    color: white;
    background-color: #d0d5db;
    border-radius: 20px;
    box-shadow: 0 0 10px #808080;
}
.item a {
    text-decoration: none;
}
.item p {
    padding-bottom: 0;
    padding-top: 0;
    margin-top: 0;
    margin-bottom: 0;
    color: #383838;
    font-family: Verdana, Geneva, Tahoma, sans-serif;
    font-weight: bolder;
}
h3 {
    color: black;
    font-size: x-large;
    font-family: Georgia, 'Times New Roman', Times, serif;
}
hr {
    margin-left: -10px;
    width: 380px;
    padding-bottom: 0px;
}
#credentials, #search, #watch, #download {
    margin-top: -10px;
    margin-left: 10px;
}

```

```
}

#credentials:hover {
    opacity: 0.8;
}

#search:hover {
    opacity: 0.8;
}

#watch:hover {
    opacity: 0.8;
}

#download:hover {
    opacity: 0.8;
}
```

### 5.29.7. MyAccount.php Stylesheet

```
:root {  
    --primary-color: #e50914;  
    --secondary-color: #151728;  
  
    -ms-overflow-style: none;  
    scrollbar-width: none;  
}  
body {  
    background-color: #212121;  
}  
:root::-webkit-scrollbar {  
    display: none;  
}  
.showcase {  
    width: 100%;  
    height: 100vh;  
    position: relative;  
    opacity: 1;  
}  
.showcase-top {  
    position: fixed;  
    overflow: hidden;  
    background-color: var(--secondary-color);  
    height: 64px;  
    top: 0;  
    width: 100%;  
    z-index: 1;  
}  
.showcase-top img {  
    margin-top: -10px;  
    width: 250px;  
}  
.showcase-top img:hover {  
    opacity: 0.7;  
}  
#userlogout {  
    color: white;  
    background: var(--primary-color);  
    font-size: 1rem;  
    width: 80px;  
    height: 35px;  
}  
#userlogout:hover {  
    opacity: 0.7;  
}  
#avatar {
```

```

        width: 45px;
        height: 45px;
    }
    #avatar:hover {
        opacity: 0.7;
    }
    #myaccount {
        display: inline-block;
        margin-left: calc(100% - 440px);

    }
    .showcase-top button {
        position: absolute;
        margin-top: -10px;
        border-radius: 5px;
        border: none;
        text-align: center;
        display: inline-block;
        color: #ffffff;
        outline: none;
        font-size: 1rem;
        width: 80px;
        height: 35px;
        top: 44px;
        right: 10px;
        transform: translate(-50%, -50%);
        background: var(--primary-color);
    }
    .showcase-top button:hover {
        color: #000;
    }
    .accordion {
        width: 40%;
        margin: auto auto;
        margin-top: 80px;
        background-color: #212121;
    }
    .btn {
        font-family: Cambria, Cochin, Georgia, Times, 'Times New Roman', serif;
        font-size: large;
    }
    .collapsed, .collapsed:hover, .collapsed:active, .btn-link, .btn-link:hover, .btn-link:active, .btn, .btn:active, .btn:hover {
        color: black;
        text-decoration: none;
    }
    .collapsed:not(:active), .btn-link:not(:active), .btn:not(:active) {
        color: black;
    }

```

```
    text-decoration: none;
}
form {
    margin-top: 20px;
    margin-left: 80px;
}
form label {
    width: 200px;
    font-size: large;
    font-family: Arial, Helvetica, sans-serif;
}
form input {
    margin-left: calc(100% - 500px);
    height: 40px;
    border-radius: 5px;
    font-family: Verdana, Geneva, Tahoma, sans-serif;

    text-align: center;
}
.error {
    color: var(--primary-color);
    font-size: large;

}
.btn-primary {
    margin-top: 28px;
    margin-left: 120px;
}
#message {
    margin-top: 100px;
    text-align: center;
    color: white;
}
#sentence {
    color: white;
    text-align: center;
}
#span {
    font-size: medium;
}
```

### 5.29.8. VerifyEmail.php Stylesheet

```
:root {  
    --primary-color: #e50914;  
}  
.navbar-dark {  
    background-color: black;  
}  
.fb-login-button {  
    position: relative;  
    padding-left: 18%;  
}  
body {  
    margin: 0;  
    padding: 0;  
    background: linear-  
gradient(rgba(0,0,0,0.8), rgba(0,0,0,0.8)), url("background.jpg") no-repeat ;  
    background-size: 100% 100vh;  
    font-family: sans-serif;  
}  
#signIn {  
    margin: 0 70px;  
}  
#invalid1, #invalid2, #invalid3, #invalid4 {  
    color: var(--primary-color);  
    margin-top: 0px;  
    padding-top: 0px;  
}  
.login-box {  
    width: 880px;  
    height: 400px;  
    background: rgba(0,0,0,0.7);  
    color: #fff;  
    top: 50%;  
    left: 50%;  
    position: absolute;  
    transform: translate(-50%, -50%);  
    box-sizing: border-box;  
    padding: 50px;  
}  
.login-box a {  
    color: #e50914;  
}  
.login-box h1 {  
    font-family: 'DejaVu Serif';  
    padding: 0 0 20px;  
    text-align: center;  
    font-size: 40px;  
}
```

```
.login-box p {
    margin: 0;
    padding: 0;
    font-size: 20px;
    font-family: Verdana, Geneva, Tahoma, sans-serif;
    color: var(--primary-color);
}

#otp {
    margin-top: 20px;
}

input {
    width: 30px;
    height: 50px;
    background-color: lighten(--primary-color, 5%);
    background: #000;
    border: 1px solid white;
    line-height: 50px;
    text-align: center;
    font-size: 24px;
    font-family: 'Raleway', sans-serif;
    font-weight: 200;
    color: white;
    margin: 10px 1px;
}

.splitter {
    padding: 0 1px;
    color: white;
    font-size: 24px;
}

.login-box input[type="submit"] {
    border: none;
    outline: none;
    height: 44px;
    background: var(--primary-color);
    color: #fff;
    font-size: 18px;
    border-radius: 100px;
    width: 100px;
    padding-top: 0px;
    vertical-align: middle;
    margin-left: 20px;
}

.showcase {
    width: 100%;
    height: 100vh;
    position: relative;
    opacity: 1;
```

```

}

.showcase-top {
    position: relative;
    height: 10px;
    opacity: 1;
}

}

.showcase-top img {
    width: 250px;
    position: absolute;
    opacity: 1;
}

.showcase-top a {
    position: absolute;
    top: 20%;
    transform: translate(-50%, -50%);
}

.showcase-top a:hover {
    opacity: 0.7;
}

@media only screen and (max-width: 1080px) {
    .showcase {
        width: 100%;
        height: 100vh;
        position: relative;
        opacity: 1;
    }

    .showcase-top {
        position: relative;
        height: 10px;
        opacity: 1;
    }

    .showcase-top img {
        width: 200px;
        position: absolute;
        opacity: 1;
    }

    .login-box {
        width: 360px;
        height: auto;
        background: rgba(0,0,0,0.5);
        color: #fff;
        top: 54%;
        left: 50%;
        position: absolute;
        transform: translate(-50%, -50%);
        box-sizing: border-box;
    }
}

```

```

        padding: 30px;
    }
    .login-box a {
        color: #e50914;
    }
    .login-box h1 {
        font-family: 'DejaVu Serif';
        padding: 0 0 20px;
        text-align: center;
        font-size: 32px;
    }
    .login-box p {
        margin: 0;
        padding: 0;
        font-size: 16px;
        font-weight: bold;
    }
    input {
        width: 30px;
        height: 50px;
        background-color: lighten(--primary-color, 5%);
        border: none;
        line-height: 50px;
        text-align: center;
        font-size: 24px;
        font-family: 'Raleway', sans-serif;
        font-weight: 200;
        color: white;
        margin: 10px 2px;
    }
    .splitter {
        padding: 0 5px;
        color: white;
        font-size: 24px;
    }
    .login-box input[type="submit"] {
        border: none;
        outline: none;
        height: 40px;
        background: var(--primary-color);
        color: #fff;
        font-size: 18px;
        border-radius: 100px;
    }
    .fb-login-button {
        position: relative;
        padding-left: 11%;

```

}

### 5.29.9. SearchHistory.php Stylesheet

```
:root {  
    --primary-color: #e50914;  
    --secondary-color: #151728;  
    background-color: #212121;  
    color: white;  
    -ms-overflow-style: none;  
    scrollbar-width: none;  
}  
body {  
    background-color: #212121;  
}  
:root::-webkit-scrollbar {  
    display: none;  
}  
.metastream img {  
    height: 80px;  
}  
.metastream img:hover {  
    opacity: 0.7;  
}  
.showcase-top {  
    position: fixed;  
    overflow: hidden;  
    background-color: var(--secondary-color);  
    height: 64px;  
    top: 0;  
    width: 100%;  
    z-index: 10;  
    margin-left: -8px;  
}  
#metastream {  
    margin-top: -10px;  
    width: 250px;  
}  
.showcase-top img:hover {  
    opacity: 0.7;  
}  
#userlogout {  
    color: white;  
    background: var(--primary-color);  
    font-size: 1rem;  
    width: 80px;  
    height: 35px;  
}  
#userlogout:hover {  
    opacity: 0.7;  
    cursor: pointer;
```

```
        }
    #avatar {
        width: 45px;
        height: 45px;
        position: absolute;
        margin-top: -65px;
    }
    #avatar:hover {
        opacity: 0.7;
    }
    #myaccount {
        display: inline-block;
        margin-left: calc(100% - 440px);
        margin-top: -40px;
    }
    .showcase-top button {
        position: absolute;
        margin-top: -10px;
        border-radius: 5px;
        border: none;
        text-align: center;
        display: inline-block;
        color: #ffffff;
        outline: none;
        font-size: 1rem;
        width: 80px;
        height: 35px;
        top: 44px;
        right: 10px;
        transform: translate(-50%, -50%);
        background: var(--primary-color);
    }
    .showcase-top button:hover {
        color: #000;
    }
    #delete {
        visibility: hidden;
        height: 50px;
        margin: 0 auto;
    }
    #del-btn {
        position: absolute;
        visibility: hidden;
        right: 200px;
        top: 45px;
    }
    #prev-btn {
        visibility: hidden;
```

```

        position: absolute;
        left: 480px;
        top: 45px;
    }
    #next-btn {
        visibility: hidden;
        position: absolute;
        right: 400px;
        top: 45px;
    }
    #del-btn:hover, #prev-btn:hover, #next-btn:hover {
        cursor: pointer;
        opacity: 0.7;
    }
    #delete span {
        position: absolute;
        top: 25px;
        left: calc(50% - 40px);
        font-size: large;
    }
    h1 {
        position: fixed;
        color: var(--primary-color);
        padding-top: 40px;
        padding-bottom: 10px;
        width: 100%;
        font-family: Cambria, Cochin, Georgia, Times, 'Times New Roman', serif;
        text-align: center;
        background-color: #121212;
        z-index: 5;
    }
    h2 {
        position: fixed;
        color: white;
        padding-top: 72px;
        width: 100%;
        font-
        family: 'Trebuchet MS', 'Lucida Sans Unicode', 'Lucida Grande', 'Lucida Sans',
        Arial, sans-serif;
        text-align: center;
        background-color: #121212;
        padding-bottom: 16px;
    }
    #message {
        background-color: #212121;
    }
    h1, h2 {
        margin-left: -8px;
    }

```

```
}

.checkbox {
    font-size: large;
    width: 16px;
    height: 16px;
}
.checkbox:hover {
    cursor: pointer;
}
.label {
    font-size: 24px;
    font-family: Cambria, Cochin, Georgia, Times, 'Times New Roman', serif;
}
.entry {
    display: block;
    height: 40px;
}
#searchhistory {
    width: 640px;
    margin: 150px auto;
    margin-bottom: 20px;
    padding: 20px 64px;
    border: solid 2px white;
}
```

### 5.29.10. WatchHistory.php Stylesheet

```
:root {  
    --primary-color: #e50914;  
    --secondary-color: #151728;  
    background-color: #212121;  
    color: white;  
    -ms-overflow-style: none;  
    scrollbar-width: none;  
}  
body {  
    background-color: #212121;  
}  
:root::-webkit-scrollbar {  
    display: none;  
}  
.metastream img {  
    height: 80px;  
}  
.metastream img:hover {  
    opacity: 0.7;  
}  
.showcase-top {  
    position: fixed;  
    overflow: hidden;  
    background-color: var(--secondary-color);  
    height: 64px;  
    top: 0;  
    width: 100%;  
    z-index: 10;  
    margin-left: -8px;  
}  
#metastream {  
    margin-top: -10px;  
    width: 250px;  
}  
.showcase-top img:hover {  
    opacity: 0.7;  
}  
#userlogout {  
    color: white;  
    background: var(--primary-color);  
    font-size: 1rem;  
    width: 80px;  
    height: 35px;  
}  
#userlogout:hover {  
    opacity: 0.7;  
    cursor: pointer;
```

```
}

#avatar {
    width: 45px;
    height: 45px;
    position: absolute;
    margin-top: -65px;
}
#avatar:hover {
    opacity: 0.7;
}
#myaccount {
    display: inline-block;
    margin-left: calc(100% - 440px);
    margin-top: -40px;
}
.showcase-top button {
    position: absolute;
    margin-top: -10px;
    border-radius: 5px;
    border: none;
    text-align: center;
    display: inline-block;
    color: #ffffff;
    outline: none;
    font-size: 1rem;
    width: 80px;
    height: 35px;
    top: 44px;
    right: 10px;
    transform: translate(-50%, -50%);
    background: var(--primary-color);
}
.showcase-top button:hover {
    color: #000;
}
#delete {
    visibility: hidden;
    height: 50px;
    margin: 0 auto;
}
#del-btn {
    position: absolute;
    visibility: hidden;
    right: 200px;
    top: 45px;
}
#prev-btn {
    visibility: hidden;
```

```

    position: absolute;
    left: 480px;
    top: 45px;
}
#next-btn {
    visibility: hidden;
    position: absolute;
    right: 400px;
    top: 45px;
}
#del-btn:hover, #prev-btn:hover, #next-btn:hover {
    cursor: pointer;
    opacity: 0.7;
}
#delete span {
    position: absolute;
    top: 25px;
    left: calc(50% - 40px);
    font-size: large;
}
.thumbnail {
    width: 200px;
    display: flex;
    transition: all ease 0.3s;
    border-radius: 10px;
}
.thumbnail:hover {
    opacity: 0.7;
    transition: all ease 0.2s;
    transform: scale(1.1) translateY(-5px);
}
#title {
    position: fixed;
    margin-top: -180px;
    color: var(--primary-color);
    padding-top: 10px;
    padding-bottom: 10px;
    width: 100%;
    font-family: Cambria, Cochin, Georgia, Times, 'Times New Roman', serif;
    text-align: center;
    background-color: #121212;
    z-index: 5;
}
#heading {
    position: fixed;
    color: white;
    margin-top: -130px;
    padding-top: 10px;
}

```

```

width: 100%;
font-
family: 'Trebuchet MS', 'Lucida Sans Unicode', 'Lucida Grande', 'Lucida Sans',
Arial, sans-serif;
text-align: center;
background-color: #121212;
padding-bottom: 16px;
}
#message {
background-color: #212121;
}
h1, h2 {
margin-left: -8px;
}
.checkbox {
display: flex;
font-size: large;
width: 16px;
height: 16px;
}
.checkbox:hover {
cursor: pointer;
}
.label {
display: flex;
font-size: 24px;
font-family: Cambria, Cochin, Georgia, Times, 'Times New Roman', serif;
width: 720px;
}
.entry {
display: flex;
text-align: center;
align-items: center;
justify-content: space-between;
margin-top: 10px;
margin-bottom: 10px;
height: 160px;
}
#watchhistory {
width: 1024px;
margin: 240px auto;
margin-bottom: 20px;
padding: 20px 64px;
border: solid 2px #121212;
background-color: #4b4c4d;
}

```

### 5.29.11. Downloadhistory.php Stylesheet

```
:root {  
    --primary-color: #e50914;  
    --secondary-color: #151728;  
    background-color: #212121;  
    color: white;  
    -ms-overflow-style: none;  
    scrollbar-width: none;  
}  
body {  
    background-color: #212121;  
}  
:root::-webkit-scrollbar {  
    display: none;  
}  
.metastream img {  
    height: 80px;  
}  
.metastream img:hover {  
    opacity: 0.7;  
}  
.showcase-top {  
    position: fixed;  
    overflow: hidden;  
    background-color: var(--secondary-color);  
    height: 64px;  
    top: 0;  
    width: 100%;  
    z-index: 10;  
    margin-left: -8px;  
}  
#metastream {  
    margin-top: -10px;  
    width: 250px;  
}  
.showcase-top img:hover {  
    opacity: 0.7;  
}  
#userlogout {  
    color: white;  
    background: var(--primary-color);  
    font-size: 1rem;  
    width: 80px;  
    height: 35px;  
}  
#userlogout:hover {  
    opacity: 0.7;  
    cursor: pointer;
```

```
}

#avatar {
    width: 45px;
    height: 45px;
    position: absolute;
    margin-top: -65px;
}
#avatar:hover {
    opacity: 0.7;
}
#myaccount {
    display: inline-block;
    margin-left: calc(100% - 440px);
    margin-top: -40px;

}
.showcase-top button {
    position: absolute;
    margin-top: -10px;
    border-radius: 5px;
    border: none;
    text-align: center;
    display: inline-block;
    color: #ffffff;
    outline: none;
    font-size: 1rem;
    width: 80px;
    height: 35px;
    top: 44px;
    right: 10px;
    transform: translate(-50%, -50%);
    background: var(--primary-color);
}
.showcase-top button:hover {
    color: #000;
}
#delete {
    visibility: hidden;
    height: 50px;
    margin: 0 auto;
}
#del-btn {
    position: absolute;
    visibility: hidden;
    right: 200px;
    top: 45px;
}
#prev-btn {
```

```

    visibility: hidden;
    position: absolute;
    left: 480px;
    top: 45px;
}
#next-btn {
    visibility: hidden;
    position: absolute;
    right: 400px;
    top: 45px;
}
#del-btn:hover, #prev-btn:hover, #next-btn:hover {
    cursor: pointer;
    opacity: 0.7;
}
#delete span {
    position: absolute;
    top: 25px;
    left: calc(50% - 40px);
    font-size: large;
}
.thumbnail {
    width: 200px;
    display: flex;
    transition: all ease 0.3s;
    border-radius: 10px;
}
.thumbnail:hover {
    opacity: 0.7;
    transition: all ease 0.2s;
    transform: scale(1.1) translateY(-5px);
}
#title {
    position: fixed;
    margin-top: -180px;
    color: var(--primary-color);
    padding-top: 10px;
    padding-bottom: 10px;
    width: 100%;
    font-family: Cambria, Cochin, Georgia, Times, 'Times New Roman', serif;
    text-align: center;
    background-color: #121212;
    z-index: 5;
}
#heading {

```

```
position: fixed;
color: white;
margin-top: -130px;
padding-top: 10px;
width: 100%;
font-
family: 'Trebuchet MS', 'Lucida Sans Unicode', 'Lucida Grande', 'Lucida Sans',
Arial, sans-serif;
text-align: center;
background-color: #121212;
padding-bottom: 16px;
}

#message {
background-color: #212121;
}

h1, h2 {
margin-left: -8px;
}

.checkbox {
display: flex;
font-size: large;
width: 16px;
height: 16px;
}

.checkbox:hover {
cursor: pointer;
}

.label {
display: flex;
font-size: 24px;
font-family: Cambria, Cochin, Georgia, Times, 'Times New Roman', serif;
width: 720px;
}

.entry {
display: flex;
text-align: center;
align-items: center;
justify-content: space-between;

margin-top: 10px;
margin-bottom: 10px;

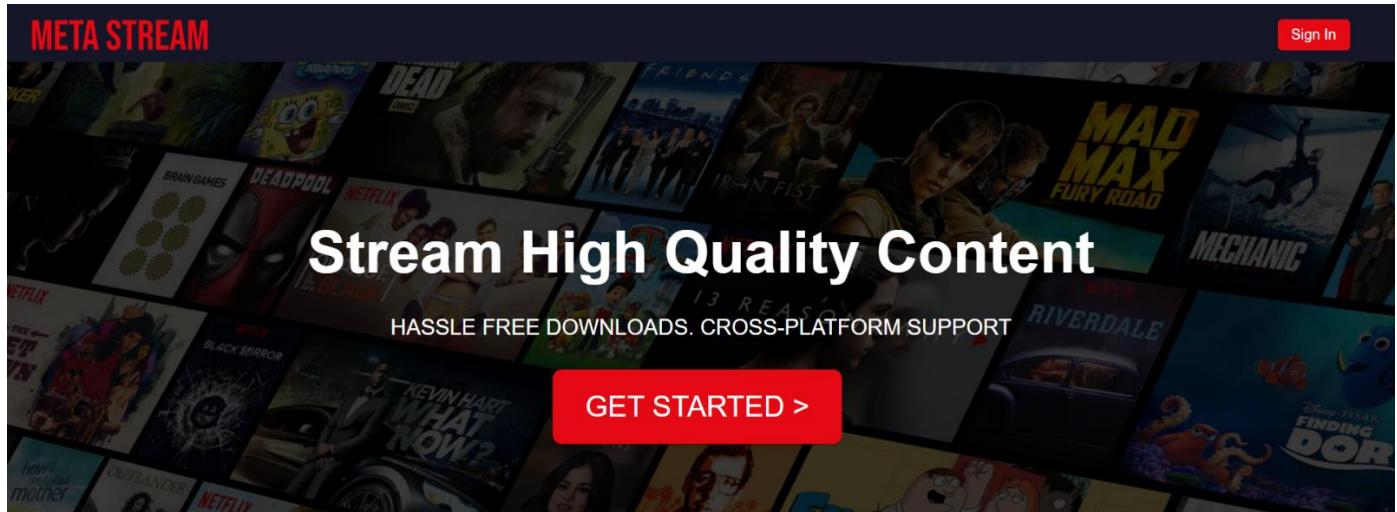
height: 160px;
}

#downloadhistory {
width: 1024px;
```

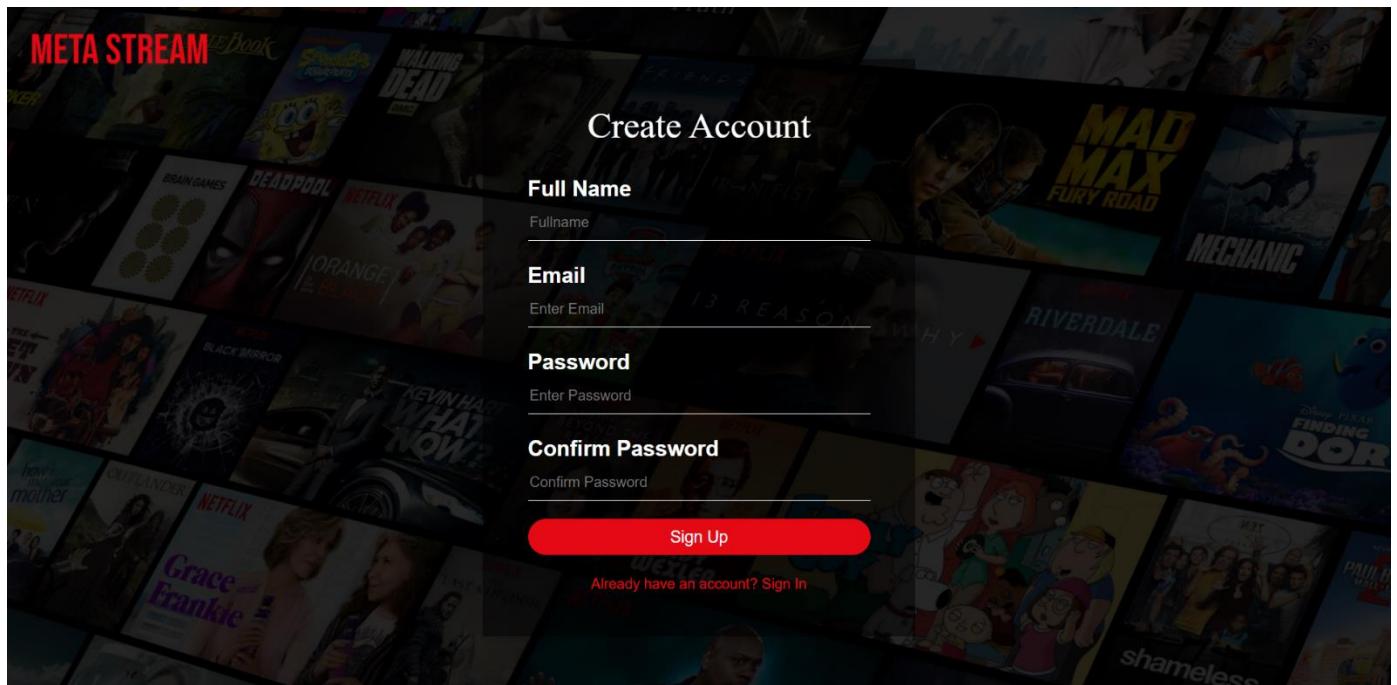
```
margin: 240px auto;  
margin-bottom: 20px;  
padding: 20px 64px;  
border: solid 2px #121212;  
background-color: #4b4c4d;  
}
```

## 6. Results/Screenshots

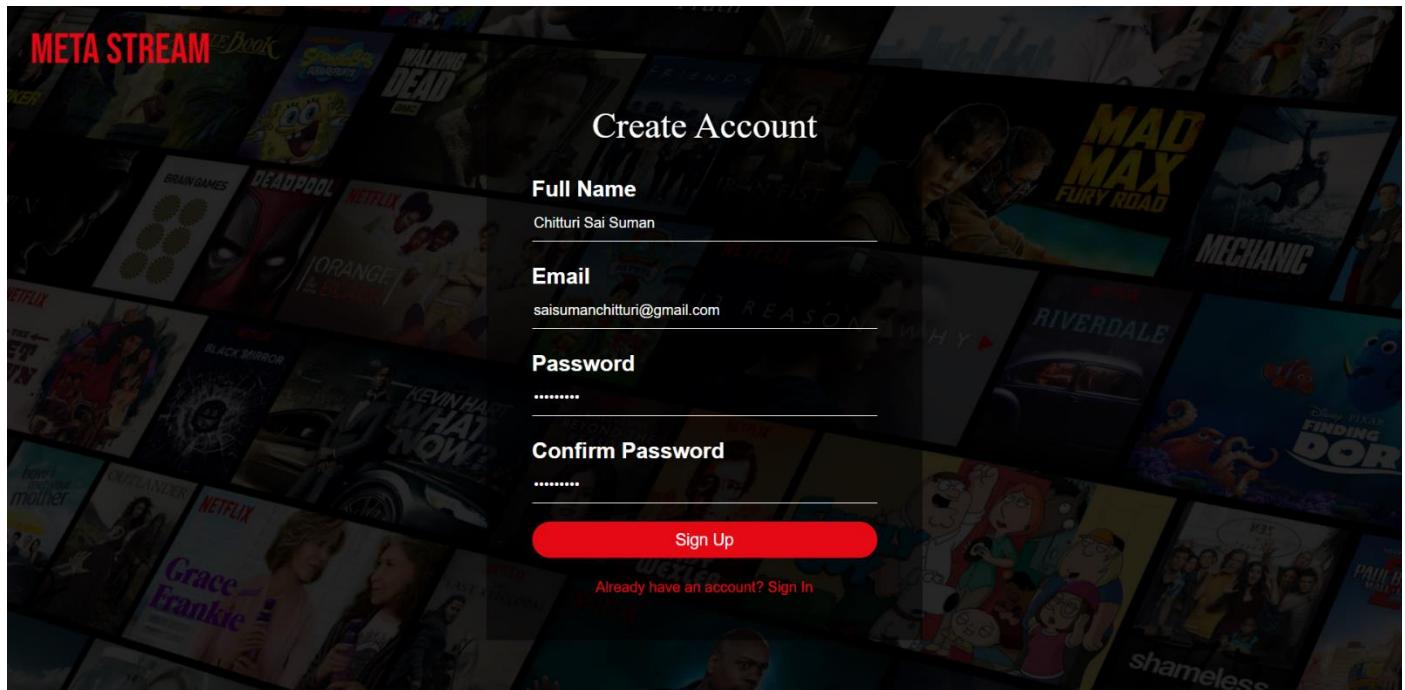
### 6.1. Home Page (before Login)



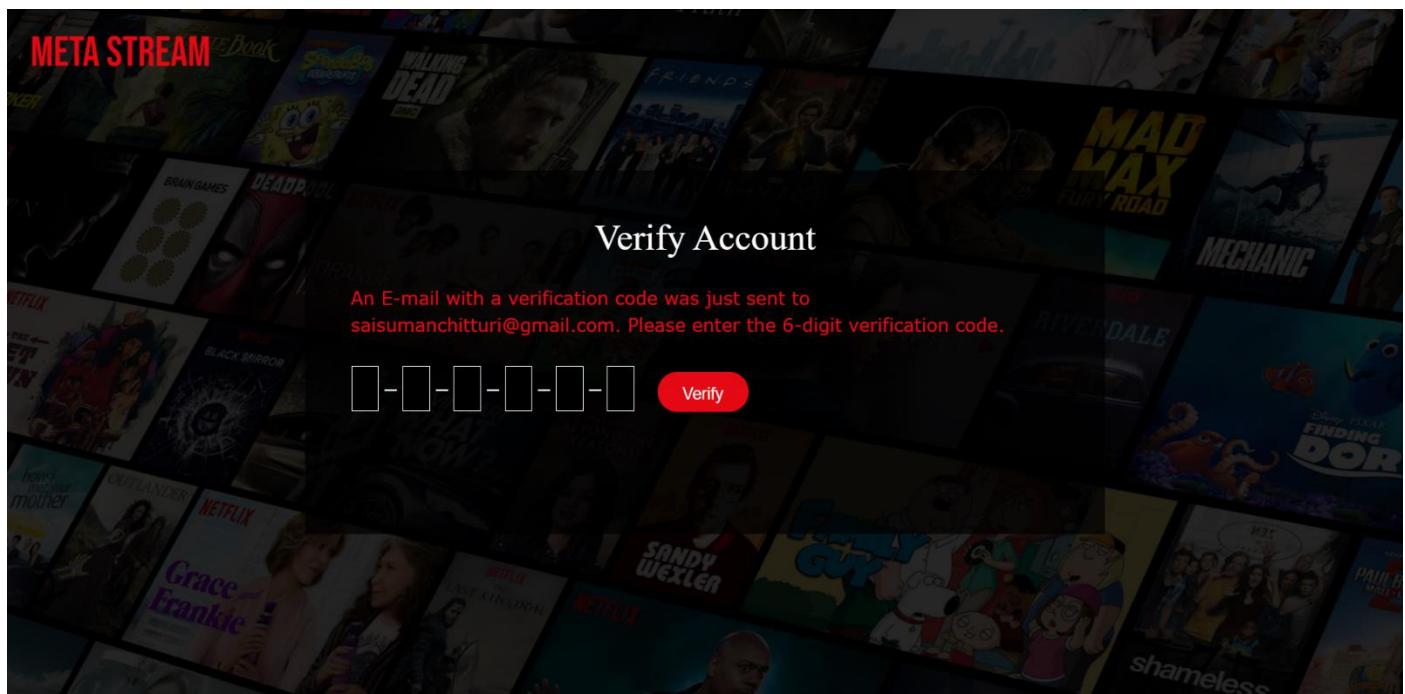
### 6.2. Sign Up



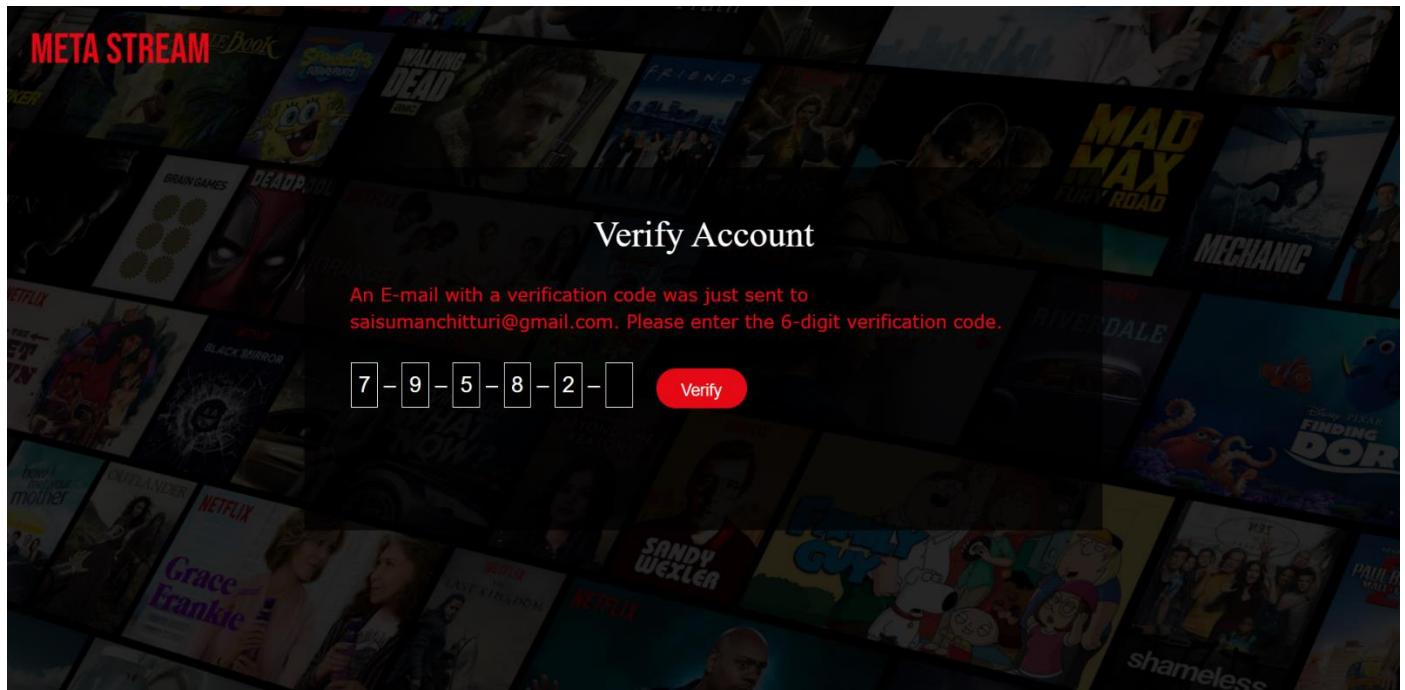
### 6.3. Signup Form after Inputs



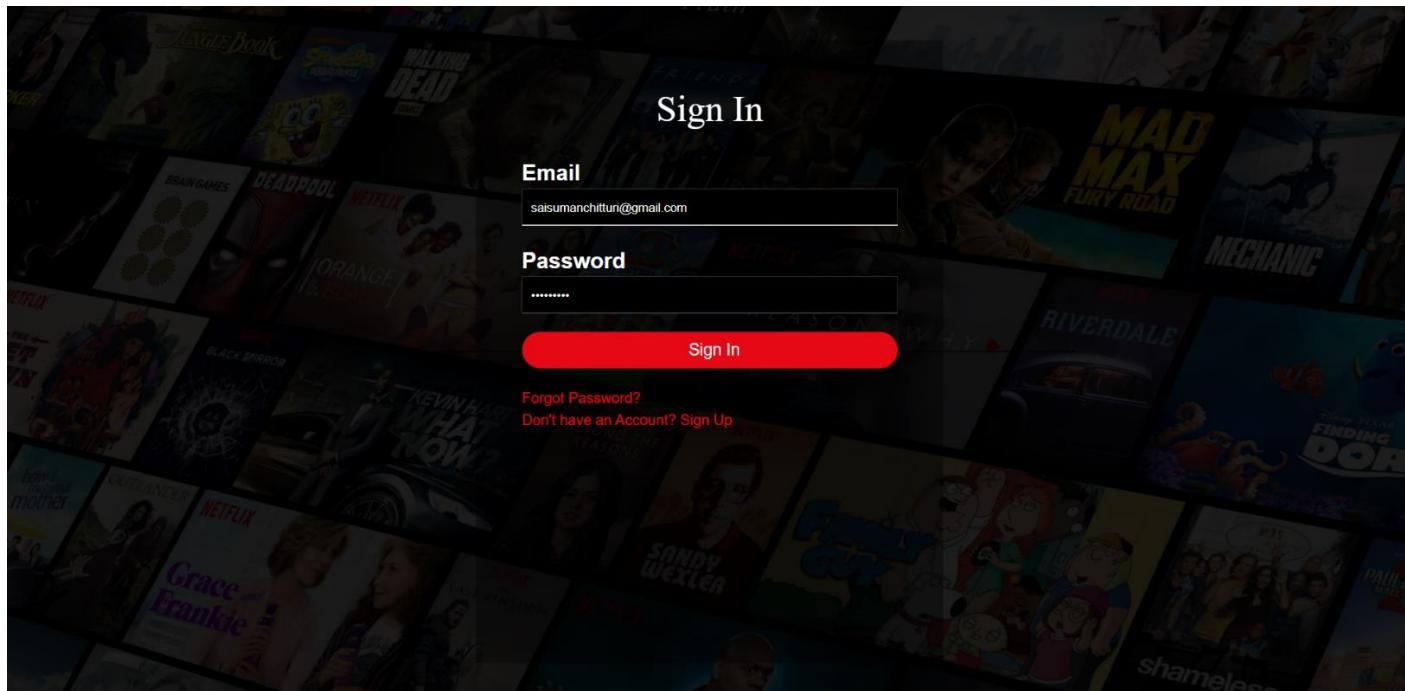
### 6.4. Verify Account



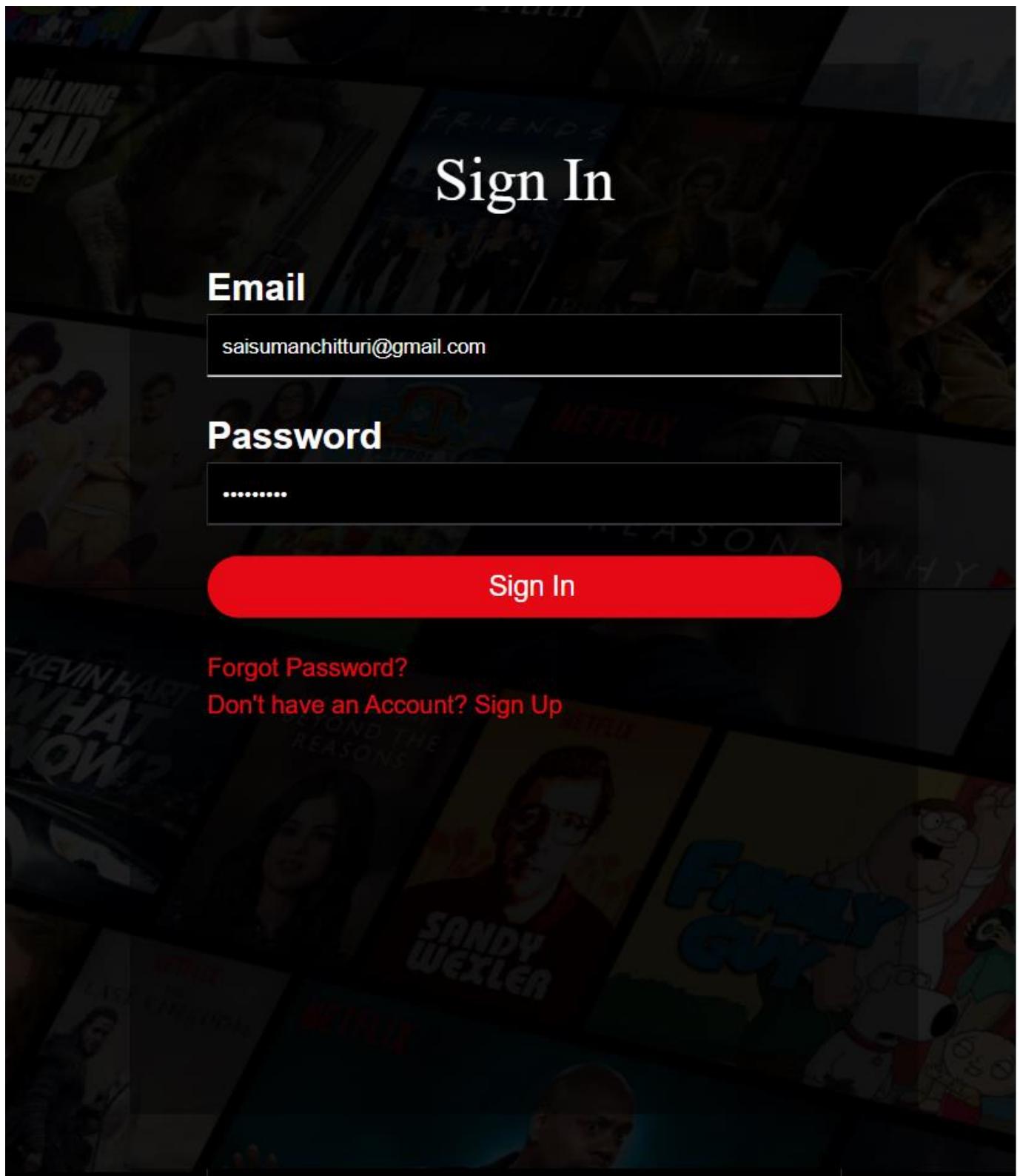
## 6.5. Verify Account page with inputs



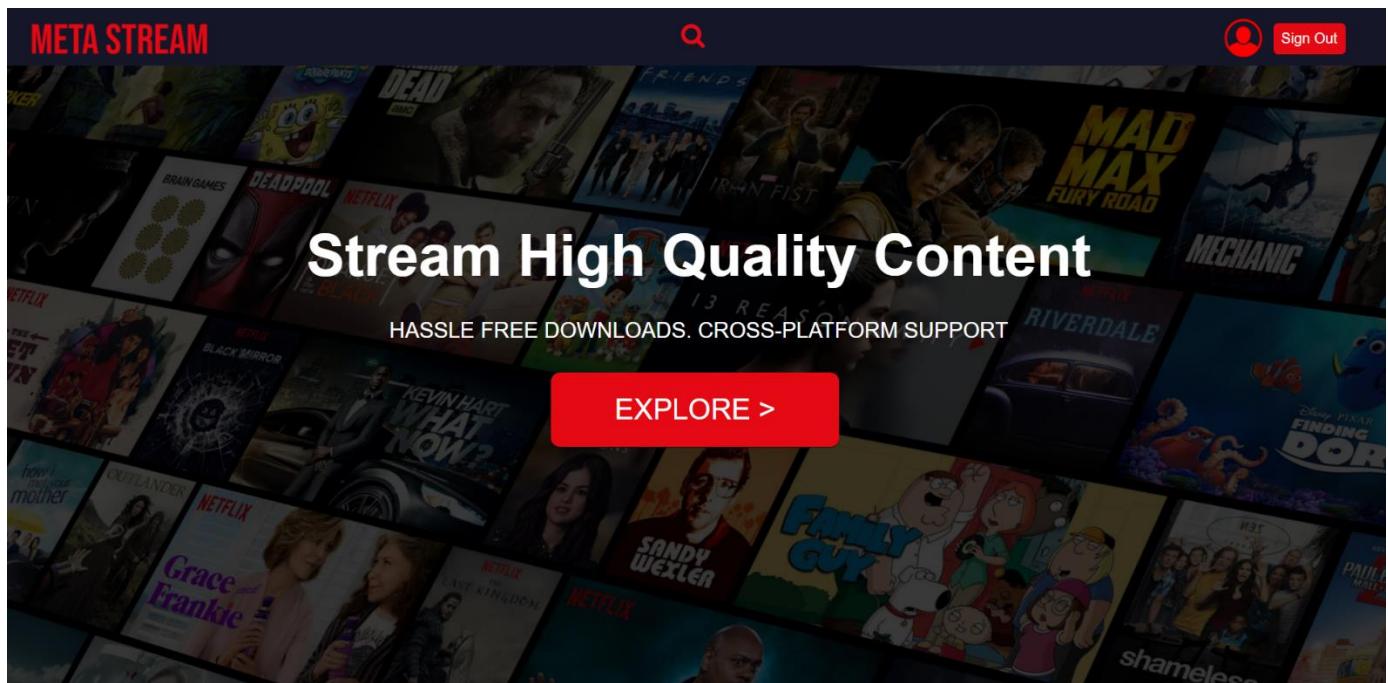
### 6.6.1. Login Form



### 6.6.2. Login Form



## 6.7. Home page after Login



## 6.8. Home page when Explored

META STREAM

Stream High Quality Content

HASSLE FREE DOWNLOADS. CROSS-PLATFORM SUPPORT

EXPLORE >

Nature



Animal



Architecture



Landscapes



Technology



Other Stock Videos



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About Developers

Chitturi Sai Suman  
Praneeth Kapila

## 6.9. Video Playback page

The screenshot shows a video playback interface for a video titled "Big Ben And Moon". The main video frame displays a large yellow moon rising behind the Elizabeth Tower (Big Ben) against a dark, cloudy sky. A play button icon is centered over the video frame. At the top of the page, there is a navigation bar with the text "META STREAM" on the left, a search icon in the center, and a user profile icon and "Sign Out" button on the right. Below the video frame, the title "Big Ben And Moon" is displayed in bold black text. Underneath the title, the category "Category: Architecture" is shown, followed by "Views: 9", "Downloads: 0", and a list of tags: "Tags: animation, animated, bigben, ben, big, moon, time, lapse". To the left of the title, there is a smaller thumbnail image of the same scene. Below the title, there are two thumbs-up icons with the number "0" next to them, and a red "Download" button with a white download icon. At the bottom of the page, there is a footer bar with social media links for Facebook and GitHub, a "Contribute" button, and copyright information: "@Meta-Stream, All Rights Reserved". On the far right of the footer, there is a section titled "About Developers" with names: "Chitturi Sai Suman" and "Praneeth Kapila".

**Big Ben And Moon**

Category: Architecture

Views: 9

Downloads: 0

Tags: animation, animated, bigben, ben, big, moon, time, lapse

Download

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Praneeth Kapila

## 6.10. Video Playback page after Like Operation

The screenshot shows a video playback interface for a video titled "Big Ben And Moon". The main video thumbnail at the top displays the Big Ben clock tower against a large, bright moon. A play button icon is centered over the thumbnail. In the top right corner of the video area, there is a small white square icon with a black checkmark, indicating a like operation has been performed.

**Big Ben And Moon**

Category: Architecture  
Views: 9  
Downloads: 0  
Tags: animation, animated, bigben, ben, big, moon, time, lapse

1      0

Download

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## 6.11. Video Playback page after Dislike Operation

The screenshot shows a video player interface for a video titled "Big Ben And Moon". The video thumbnail at the top displays the Big Ben clock tower against a large, bright moon. A white play button icon is centered over the video frame. In the top right corner of the video frame, there is a small red thumbs-down icon with the number "1" next to it, indicating one dislike operation has been performed.

**Big Ben And Moon**

Category: Architecture  
Views: 9  
Downloads: 0  
Tags: animation, animated, bigben, ben, big, moon, time, lapse

0      1

Download

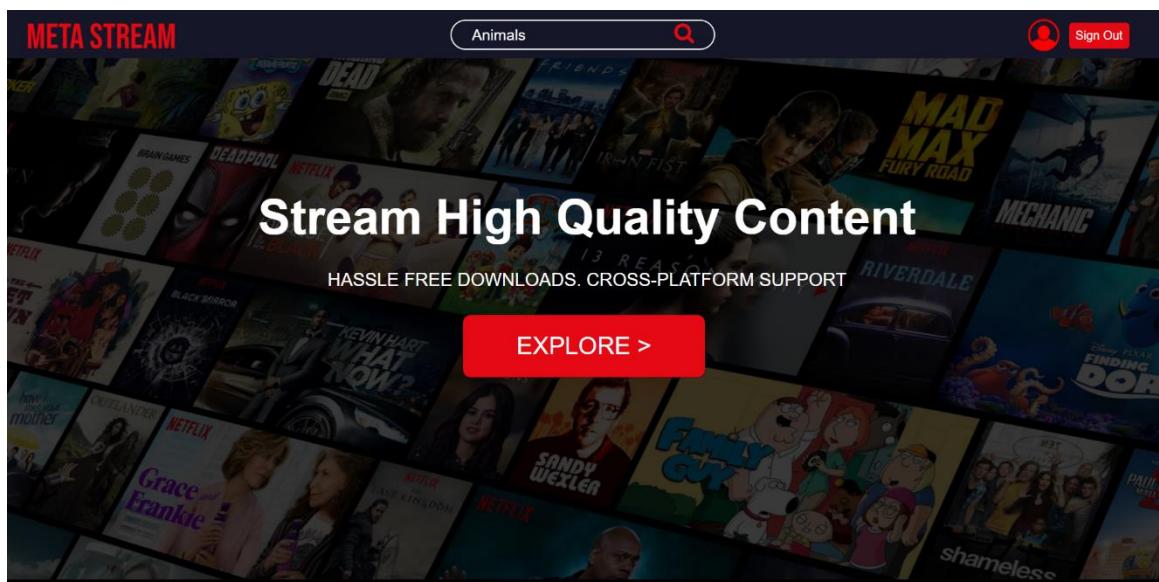
Connect with us [f](#)

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Praneeth Kapila

### 6.12.1. Home page with Search Bar Active (Full Page)



The screenshot shows the Meta Stream home page. At the top, there's a navigation bar with the title "META STREAM" on the left, a search bar containing the text "Animals" with a magnifying glass icon in the center, and a "Sign Out" button on the right. Below the navigation bar is a large banner featuring various movie and TV show thumbnails, including "DEADPOOL", "FRIENDS", "IRON FIST", "MAD MAX FURY ROAD", "MECHANIC", "NETFLIX", "RIVERDALE", and "FINDING DORY". The banner has the text "Stream High Quality Content" and "HASSLE FREE DOWNLOADS. CROSS-PLATFORM SUPPORT" at the bottom, with a red "EXPLORE >" button.

**Nature**



**Animal**



**Architecture**



**Landscapes**



**Technology**



**Other Stock Videos**

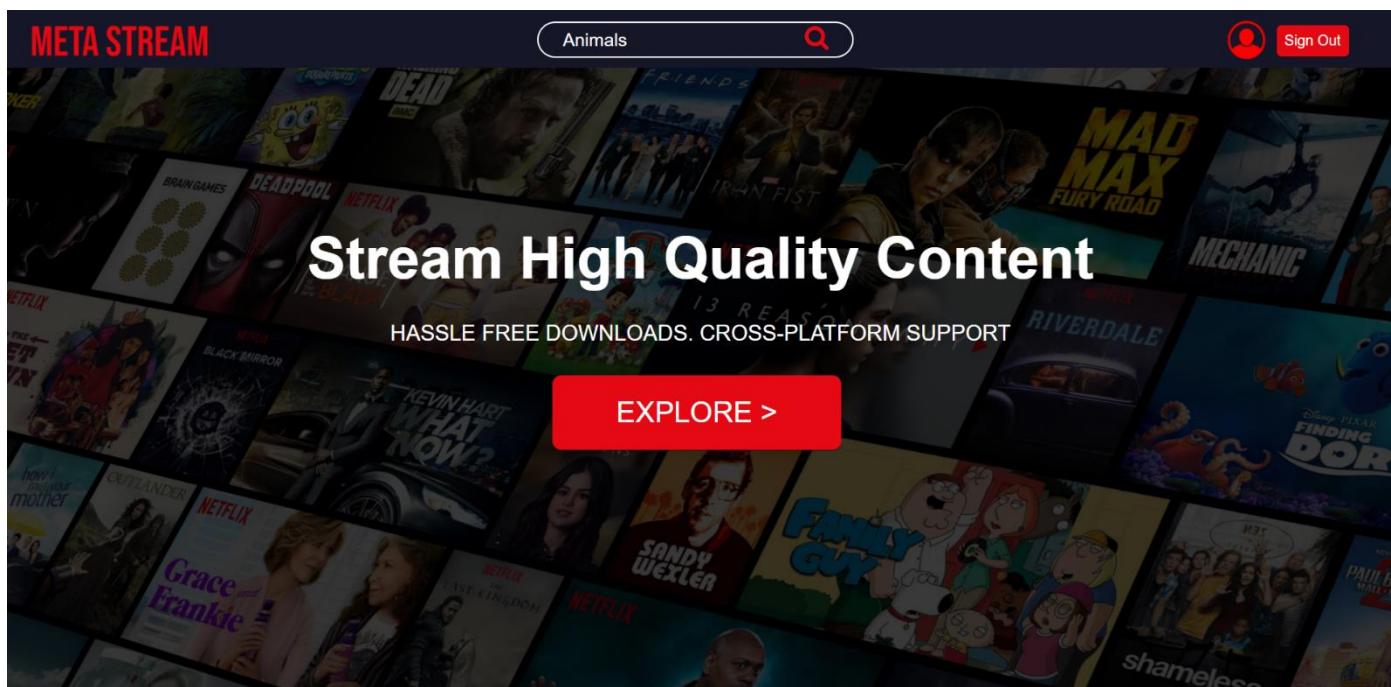


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Praneeth Kapila

## 6.12.2. Home Page with Search Bar Active (Half Page)



## 6.13.1. Search Results Page with Results

The image shows the search results page for the query "Animals" on the "META STREAM" platform. The header is identical to the home page, with the "META STREAM" logo, a search bar containing "Animals", and a "Sign Out" button. The main content area is titled "Search Results" and displays a grid of 25 thumbnail images representing various animals. The thumbnails are arranged in five rows and five columns. The images include: 1. Meerkat, 2. Small bird in a cage, 3. Cat by a water feature, 4. Tabby cat, 5. Monkey in foliage; 6. Orange and white cat, 7. Calico cat, 8. Dog walking on a path, 9. Dog walking on a path, 10. Fish (angelfish); 11. Koi fish, 12. Coral reef, 13. Hummingbird, 14. Red flower, 15. Sea urchin; 16. Pomeranian dog, 17. Dog on beach, 18. Dog lying down, 19. Seal on sand, 20. Snail on surface; 21. Snail in foliage, 22. Large green leafy plant, 23. White tiger, 24. Woman with dog, 25. Small brown dog. At the bottom of the page, there is a footer navigation bar with links for "Connect with us" (Facebook icon), "Contribute" (button), and "About Developers" (links to Praneeth Kapila and Chitturi Sai Suman).

## 6.13.2 Search Results page with 0 Results

The screenshot shows a dark-themed web application interface. At the top left is the "META STREAM" logo in red. To its right is a magnifying glass icon for search. On the far right is a user profile icon and a red "Sign Out" button. Below the header, the title "Search Results" is displayed. A central message states, "Unfortunately your Search did not return any results." At the bottom of the page, there's a footer bar with social media links ("Connect with us" and a Facebook icon), a green "Contribute" button, and copyright information ("@Meta-Stream, All Rights Reserved"). On the right side of the footer, there's a section titled "About Developers" listing two names: Praneeth Kapila and Chitturi Sai Suman.

META STREAM

Search

Sign Out

Search Results

Unfortunately your Search did not return any results.

Connect with us

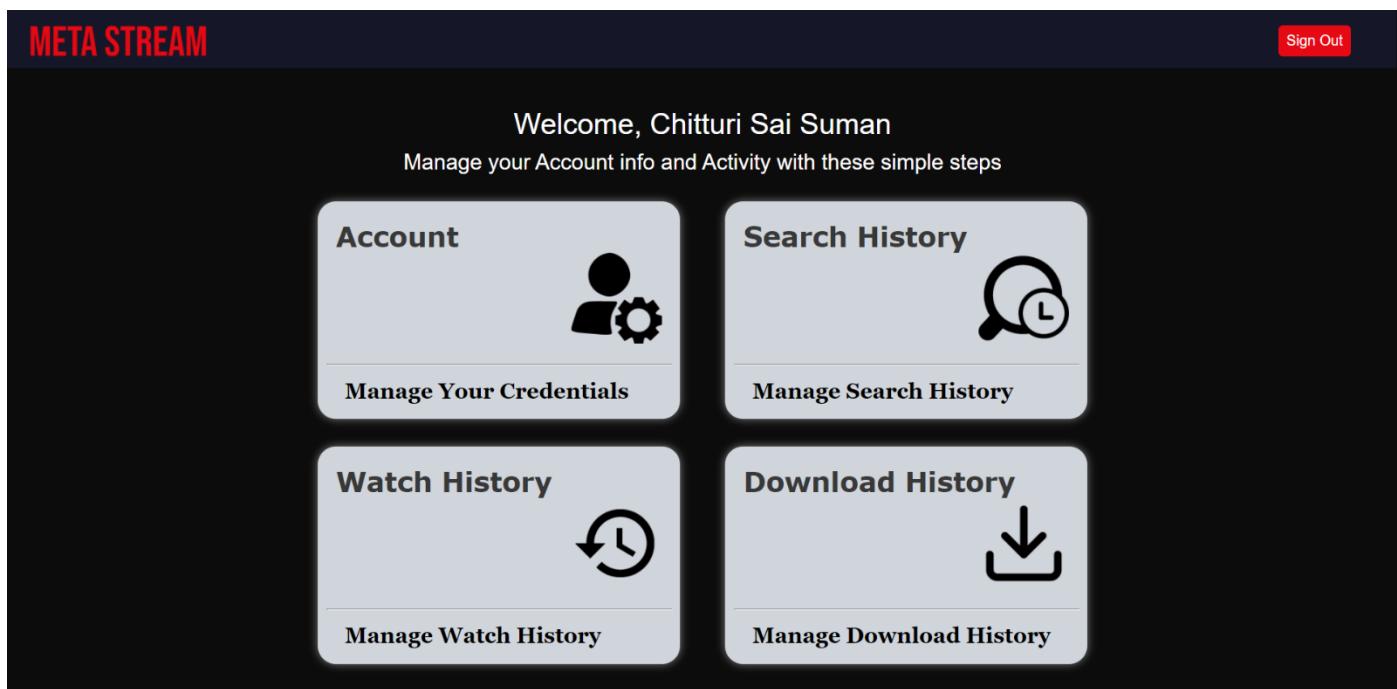
Contribute

@Meta-Stream, All Rights Reserved

About Developers

Praneeth Kapila  
Chitturi Sai Suman

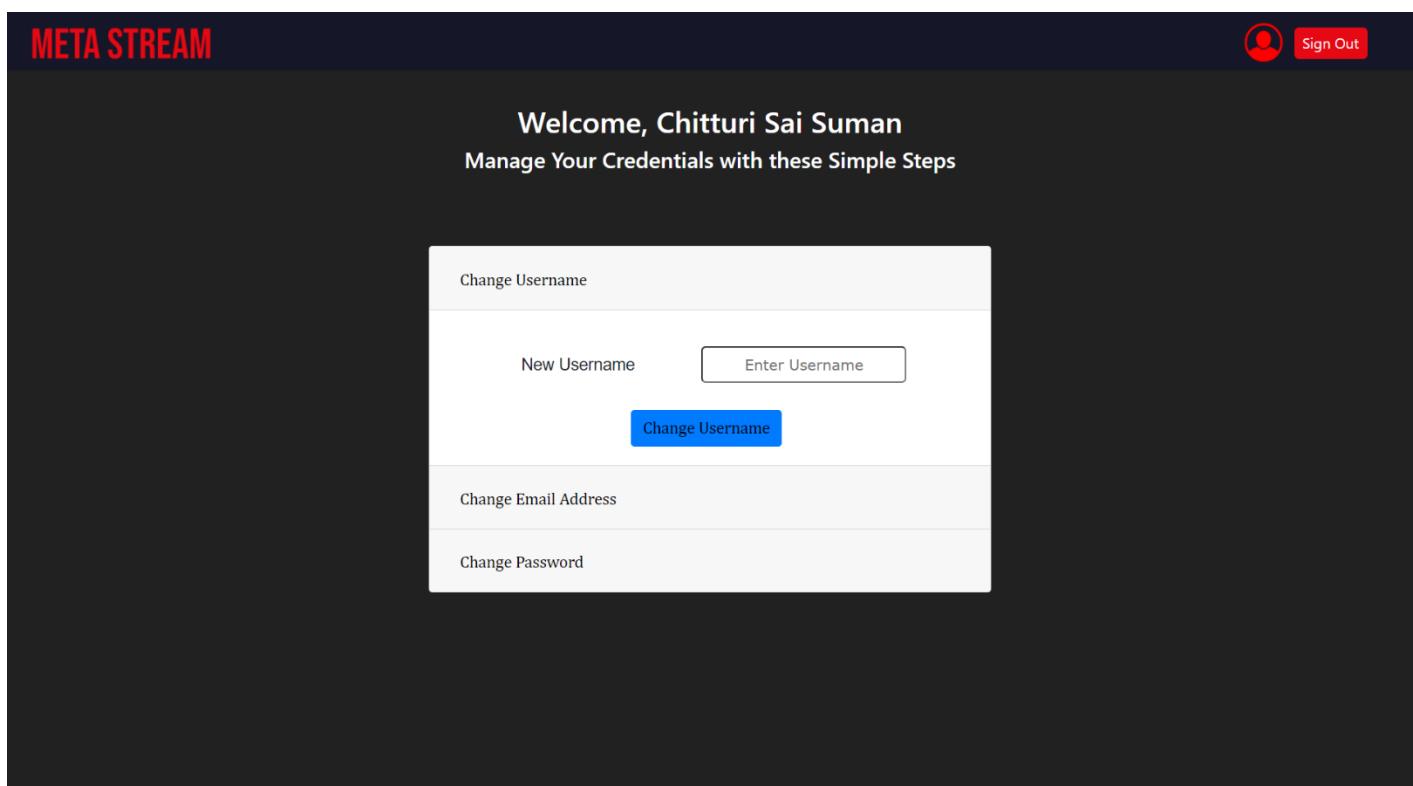
## 6.14. My Account Dashboard



The screenshot shows the 'My Account' dashboard for a user named Chitturi Sai Suman. At the top left is the 'META STREAM' logo, and at the top right is a 'Sign Out' button. The main area features a welcome message 'Welcome, Chitturi Sai Suman' and a subtitle 'Manage your Account info and Activity with these simple steps'. Below this are four rounded rectangular cards arranged in a 2x2 grid:

- Account**: Features a user icon with a gear. Below it is the text 'Manage Your Credentials'.
- Search History**: Features a magnifying glass icon with a 'L' inside. Below it is the text 'Manage Search History'.
- Watch History**: Features a clock icon. Below it is the text 'Manage Watch History'.
- Download History**: Features a downward arrow icon. Below it is the text 'Manage Download History'.

## 6.15. Manage Credentials – Change Username



The screenshot shows the 'Change Username' section of the 'Manage Credentials' page. At the top left is the 'META STREAM' logo, and at the top right are a profile icon and a 'Sign Out' button. The main area features a welcome message 'Welcome, Chitturi Sai Suman' and a subtitle 'Manage Your Credentials with these Simple Steps'. Below this is a large white form box with the title 'Change Username' at the top. It contains two input fields: 'New Username' and 'Enter Username', separated by a horizontal line. A blue 'Change Username' button is centered below the fields. The form is divided into three horizontal sections by thin gray lines, with labels 'Change Email Address' and 'Change Password' visible at the bottom of the first and second sections respectively.

## 6.16. Manage Credentials – Change Email

The screenshot shows the META STREAM application interface. At the top, there is a dark header bar with the 'META STREAM' logo in red on the left and a user icon with 'Sign Out' text on the right. Below the header, the main content area has a dark background with white text. It displays a welcome message: 'Welcome, Chitturi Sai Suman' and 'Manage Your Credentials with these Simple Steps'. A central white rectangular form contains several sections: 'Change Username', 'Change Email Address', and 'Change Password'. Under 'Change Email Address', there is a field labeled 'Email' with a placeholder 'Enter Email' and a blue button labeled 'Change Email Address'. Above the 'Email' field, the current email address is shown as 'Current Email Address: saisumanchitturi@gmail.com'.

## 6.17. Manage Credentials – Change Password

The screenshot shows the META STREAM application interface, similar to the previous one but with different form fields. The header and welcome message are identical. The central white rectangular form contains 'Change Username', 'Change Email Address', and 'Change Password' sections. Under 'Change Password', there are three input fields: 'Current Password' with placeholder 'Enter Current Password', 'New Password' with placeholder 'Enter New Password', and 'Confirm New Password' with placeholder 'Confirm New Password'. Below these fields is a blue 'Change Password' button.

## 6.18. Manage Search History

The screenshot shows a web application titled "META STREAM" with a dark theme. At the top right are "Next" and "Sign Out" buttons. Below the title is the heading "Manage Your Search History" and a subtitle "Showing 1-50 of 134 items". The main content area displays a list of search queries, each consisting of a timestamp and a search term. The list is scrollable.

Timestamp	Search Term
2020-12-19 21:40:46	- snake
2020-12-19 21:40:46	- hill
2020-12-19 21:40:46	- mountain
2020-12-19 21:40:46	- idol
2020-12-19 21:40:46	- god
2020-12-19 21:40:46	- temple
2020-12-19 21:40:46	- buddha
2020-12-19 21:40:46	- construction
2020-12-19 21:40:46	- office
2020-12-19 21:40:46	- meeting
2020-12-19 21:40:46	- laptop
2020-12-19 21:40:46	- book
2020-12-19 21:40:46	- pencil
2020-12-19 21:40:46	- pen
2020-12-19 21:40:46	- paper
2020-12-19 21:40:46	- portrait
2020-12-19 21:40:46	- drawing
2020-12-19 21:40:46	- sketching
2020-12-19 21:40:46	- paintings
2020-12-19 21:40:46	- digital
2020-12-19 21:40:46	- hologram
2020-12-19 21:40:46	- visual effects
2020-12-19 21:40:46	- graphics
2020-12-19 21:40:46	- earth
2020-12-19 21:40:46	- cosmos
2020-12-19 21:40:46	- space
2020-12-19 21:40:46	- train
2020-12-19 21:40:46	- ship
2020-12-19 21:40:46	- cruise
2020-12-19 21:40:46	- rocket
2020-12-19 21:40:46	- aeroplane
2020-12-19 21:40:46	- cycle
2020-12-19 21:40:46	- bike
2020-12-19 21:40:46	- car
2020-12-19 21:40:46	- Architecture
2020-12-19 21:40:46	- technology
2020-12-19 21:40:46	- time
2020-12-19 21:40:46	- nature
2020-12-19 21:40:46	- flower
2020-12-19 21:40:46	- water
2020-12-19 21:40:28	- snake
2020-12-19 21:40:28	- hill
2020-12-19 21:40:28	- mountain
2020-12-19 21:40:28	- idol
2020-12-19 21:40:28	- god
2020-12-19 21:40:28	- temple
2020-12-19 21:40:28	- buddha
2020-12-19 21:40:28	- construction
2020-12-19 21:40:28	- office
2020-12-19 21:40:28	- meeting

## 6.19. Manage Search History – Case 2

The screenshot shows a dark-themed web application titled "META STREAM". At the top, there are navigation buttons for "Previous" and "Next", and a user profile icon with "Sign Out" text. The main title is "Manage Your Search History" with the subtitle "Showing 51-100 of 134 items". Below this, a large list of search history items is displayed in a white box. Each item consists of a small square icon followed by a timestamp and a search term. The list includes various topics such as laptop, book, pencil, pen, paper, portrait, drawing, sketching, paintings, digital, hologram, visual effects, graphics, earth, cosmos, space, train, ship, cruise, rocket, aeroplane, cycle, bike, car, Architecture, technology, time, nature, flower, water, snake, hill, mountain, idol, god, temple, buddha, construction, office, meeting, laptop, book, pencil, pen, paper, portrait, drawing, sketching, paintings, and digital.

Date	Search Term
2020-12-19 21:40:28	laptop
2020-12-19 21:40:28	book
2020-12-19 21:40:28	pencil
2020-12-19 21:40:28	pen
2020-12-19 21:40:28	paper
2020-12-19 21:40:28	portrait
2020-12-19 21:40:28	drawing
2020-12-19 21:40:28	sketching
2020-12-19 21:40:28	paintings
2020-12-19 21:40:28	digital
2020-12-19 21:40:28	hologram
2020-12-19 21:40:28	visual effects
2020-12-19 21:40:28	graphics
2020-12-19 21:40:28	earth
2020-12-19 21:40:28	cosmos
2020-12-19 21:40:28	space
2020-12-19 21:40:28	train
2020-12-19 21:40:28	ship
2020-12-19 21:40:28	cruise
2020-12-19 21:40:28	rocket
2020-12-19 21:40:28	aeroplane
2020-12-19 21:40:28	cycle
2020-12-19 21:40:28	bike
2020-12-19 21:40:28	car
2020-12-19 21:40:28	Architecture
2020-12-19 21:40:28	technology
2020-12-19 21:40:28	time
2020-12-19 21:40:28	nature
2020-12-19 21:40:28	flower
2020-12-19 21:40:28	water
2020-12-19 21:39:46	snake
2020-12-19 21:39:46	hill
2020-12-19 21:39:46	mountain
2020-12-19 21:39:46	idol
2020-12-19 21:39:46	god
2020-12-19 21:39:46	temple
2020-12-19 21:39:46	buddha
2020-12-19 21:39:46	construction
2020-12-19 21:39:46	office
2020-12-19 21:39:46	meeting
2020-12-19 21:39:46	laptop
2020-12-19 21:39:46	book
2020-12-19 21:39:46	pencil
2020-12-19 21:39:46	pen
2020-12-19 21:39:46	paper
2020-12-19 21:39:46	portrait
2020-12-19 21:39:46	drawing
2020-12-19 21:39:46	sketching
2020-12-19 21:39:46	paintings
2020-12-19 21:39:46	digital

## 6.20. Search History – Case 3

The screenshot shows a dark-themed user interface for managing search history. At the top left is the "META STREAM" logo. To the right are "Previous" and "Sign Out" buttons. The main title "Manage Your Search History" is centered above a subtitle "Showing 101-134 of 134 items". A large list box contains 134 entries, each consisting of a timestamp and a search term. The list is scrollable.

Timestamp	Search Term
2020-12-19 21:39:46	- hologram
2020-12-19 21:39:46	- visual effects
2020-12-19 21:39:46	- graphics
2020-12-19 21:39:46	- earth
2020-12-19 21:39:46	- cosmos
2020-12-19 21:39:46	- space
2020-12-19 21:39:46	- train
2020-12-19 21:39:46	- ship
2020-12-19 21:39:46	- cruise
2020-12-19 21:39:46	- rocket
2020-12-19 21:39:46	- aeroplane
2020-12-19 21:39:46	- cycle
2020-12-19 21:39:46	- bike
2020-12-19 21:39:46	- car
2020-12-19 21:39:46	- Architecture
2020-12-19 21:39:46	- technology
2020-12-19 21:39:46	- time
2020-12-19 21:39:46	- nature
2020-12-19 21:39:46	- flower
2020-12-19 21:39:46	- water
2020-12-19 21:34:56	- desert
2020-12-19 21:34:44	- landscapes
2020-12-19 21:34:37	- waterfalls
2020-12-19 21:34:31	- bird
2020-12-19 21:34:24	- technology
2020-12-19 21:34:17	- forest
2020-12-19 21:33:46	- time lapse
2020-12-19 21:33:42	- slow motion
2020-12-19 21:33:31	- aerial view
2020-12-19 21:23:50	- bf
2020-12-19 21:21:53	- animals
2020-12-19 21:20:13	- animals
2020-12-19 21:20:02	- technology
2020-12-19 21:19:23	- nature

## 6.21. Search History – Case 4

META STREAM

Previous      8 Selected      Next      Delete      Sign Out

### Manage Your Search History

Showing 51-100 of 134 items

■ 2020-12-19 21:40:28 - laptop
<input checked="" type="checkbox"/> 2020-12-19 21:40:28 - book
<input checked="" type="checkbox"/> 2020-12-19 21:40:28 - pencil
■ 2020-12-19 21:40:28 - pen
■ 2020-12-19 21:40:28 - paper
■ 2020-12-19 21:40:28 - portrait
■ 2020-12-19 21:40:28 - drawing
■ 2020-12-19 21:40:28 - sketching
■ 2020-12-19 21:40:28 - paintings
■ 2020-12-19 21:40:28 - digital
■ 2020-12-19 21:40:28 - hologram
■ 2020-12-19 21:40:28 - visual effects
■ 2020-12-19 21:40:28 - graphics
■ 2020-12-19 21:40:28 - earth
■ 2020-12-19 21:40:28 - cosmos
<input checked="" type="checkbox"/> 2020-12-19 21:40:28 - space
■ 2020-12-19 21:40:28 - train
■ 2020-12-19 21:40:28 - ship
<input checked="" type="checkbox"/> 2020-12-19 21:40:28 - cruise
■ 2020-12-19 21:40:28 - rocket
■ 2020-12-19 21:40:28 - aeroplane
■ 2020-12-19 21:40:28 - cycle
■ 2020-12-19 21:40:28 - bike
■ 2020-12-19 21:40:28 - car
■ 2020-12-19 21:40:28 - Architecture
■ 2020-12-19 21:40:28 - technology
■ 2020-12-19 21:40:28 - time
■ 2020-12-19 21:40:28 - nature
■ 2020-12-19 21:40:28 - flower
■ 2020-12-19 21:40:28 - water
<input checked="" type="checkbox"/> 2020-12-19 21:39:46 - snake
■ 2020-12-19 21:39:46 - hill
■ 2020-12-19 21:39:46 - mountain
■ 2020-12-19 21:39:46 - idol
■ 2020-12-19 21:39:46 - god
■ 2020-12-19 21:39:46 - temple
■ 2020-12-19 21:39:46 - buddha
■ 2020-12-19 21:39:46 - construction
■ 2020-12-19 21:39:46 - office
<input checked="" type="checkbox"/> 2020-12-19 21:39:46 - meeting
■ 2020-12-19 21:39:46 - laptop
■ 2020-12-19 21:39:46 - book
■ 2020-12-19 21:39:46 - pencil
<input checked="" type="checkbox"/> 2020-12-19 21:39:46 - pen
■ 2020-12-19 21:39:46 - paper
<input checked="" type="checkbox"/> 2020-12-19 21:39:46 - portrait
■ 2020-12-19 21:39:46 - drawing
■ 2020-12-19 21:39:46 - sketching
■ 2020-12-19 21:39:46 - paintings
■ 2020-12-19 21:39:46 - digital

## 6.22. Search History – Case 5

META STREAM

Previous Next

Manage Your Search History

Showing 51-100 of 126 items

■ 2020-12-19 21:40:28 - laptop
■ 2020-12-19 21:40:28 - pen
■ 2020-12-19 21:40:28 - paper
■ 2020-12-19 21:40:28 - portrait
■ 2020-12-19 21:40:28 - drawing
■ 2020-12-19 21:40:28 - sketching
■ 2020-12-19 21:40:28 - paintings
■ 2020-12-19 21:40:28 - digital
■ 2020-12-19 21:40:28 - hologram
■ 2020-12-19 21:40:28 - visual effects
■ 2020-12-19 21:40:28 - graphics
■ 2020-12-19 21:40:28 - earth
■ 2020-12-19 21:40:28 - cosmos
■ 2020-12-19 21:40:28 - train
■ 2020-12-19 21:40:28 - ship
■ 2020-12-19 21:40:28 - rocket
■ 2020-12-19 21:40:28 - aeroplane
■ 2020-12-19 21:40:28 - cycle
■ 2020-12-19 21:40:28 - bike
■ 2020-12-19 21:40:28 - car
■ 2020-12-19 21:40:28 - Architecture
■ 2020-12-19 21:40:28 - technology
■ 2020-12-19 21:40:28 - time
■ 2020-12-19 21:40:28 - nature
■ 2020-12-19 21:40:28 - flower
■ 2020-12-19 21:40:28 - water
■ 2020-12-19 21:39:46 - hill
■ 2020-12-19 21:39:46 - mountain
■ 2020-12-19 21:39:46 - idol
■ 2020-12-19 21:39:46 - god
■ 2020-12-19 21:39:46 - temple
■ 2020-12-19 21:39:46 - buddha
■ 2020-12-19 21:39:46 - construction
■ 2020-12-19 21:39:46 - office
■ 2020-12-19 21:39:46 - laptop
■ 2020-12-19 21:39:46 - book
■ 2020-12-19 21:39:46 - pencil
■ 2020-12-19 21:39:46 - paper
■ 2020-12-19 21:39:46 - drawing
■ 2020-12-19 21:39:46 - sketching
■ 2020-12-19 21:39:46 - paintings
■ 2020-12-19 21:39:46 - digital
■ 2020-12-19 21:39:46 - hologram
■ 2020-12-19 21:39:46 - visual effects
■ 2020-12-19 21:39:46 - graphics
■ 2020-12-19 21:39:46 - earth
■ 2020-12-19 21:39:46 - cosmos
■ 2020-12-19 21:39:46 - space
■ 2020-12-19 21:39:46 - train
■ 2020-12-19 21:39:46 - ship

## 6.23. Search History – Case 6

The screenshot shows a dark-themed web interface for 'META STREAM'. At the top left is the 'META STREAM' logo in white. At the top right are a user icon and a red 'Sign Out' button. Below the header, a dark bar contains the text 'Manage Your Search History' in white. The main content area is a large black rectangle with the message 'Your Search History is Empty. Please come back later.' centered in white text.

## 6.24. Watch History

META STREAM

Next Sign Out

- 2020-12-19 21:46:39 - Macro Gears 
- 2020-12-19 21:46:38 - Sea 
- 2020-12-19 21:46:37 - Snow Covered Mountain 
- 2020-12-19 21:46:35 - Waterfalls 
- 2020-12-19 21:46:34 - Beach 
- 2020-12-19 21:46:33 - Beach And Coconut Trees Aerial View 
- 2020-12-19 21:46:26 - Construction Aerial View 
- 2020-12-19 21:46:25 - Intersection Aerial View 
- 2020-12-19 21:46:24 - Pyramids 
- 2020-12-19 21:46:22 - Temple 
- 2020-12-19 21:46:21 - Working Site 
- 2020-12-19 21:46:19 - Aerial View Of City 
- 2020-12-19 21:46:14 - Puppy At Beach 
- 2020-12-19 21:46:12 - Puppy In Front Of Mirror 
- 2020-12-19 21:46:10 - Seal 
- 2020-12-19 21:46:09 - Snail 
- 2020-12-19 21:46:08 - Snail Slow Motion 
- 2020-12-19 21:45:56 - Snake 
- 2020-12-19 21:45:54 - White Tiger Resting In The Woods 
- 2020-12-19 21:45:52 - Woman Carrying A Dog 

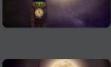
## 6.25. Watch History – Case 2

META STREAM      Previous      Next      Sign Out

- 2020-12-19 21:45:50 - Aerial View Of Fields 
- 2020-12-19 21:45:48 - Bud Blossom 
- 2020-12-19 21:45:47 - Dandelion 
- 2020-12-19 21:45:45 - Forest 
- 2020-12-19 21:45:44 - Friends Cycling Back View 
- 2020-12-19 21:45:41 - Friends Cycling Side View 
- 2020-12-19 21:45:39 - Leaves 
- 2020-12-19 21:45:38 - Moving Along Woods 
- 2020-12-19 21:45:36 - Tornado 
- 2020-12-19 21:45:34 - Vintage Car In Forest 
- 2020-12-19 21:45:32 - Aerial View Of Crops 
- 2020-12-19 21:44:57 - Woman Painting On Canvas 
- 2020-12-19 21:44:55 - Work 
- 2020-12-19 21:44:52 - Airplane Landing 
- 2020-12-19 21:44:49 - Bike Riding 
- 2020-12-19 21:44:47 - Macro Gears 
- 2020-12-19 21:44:45 - Matrix 
- 2020-12-19 21:44:44 - Meeting In Office 
- 2020-12-19 21:44:42 - Mother Board 
- 2020-12-19 21:44:40 - Photo Studio Capture 

## 6.26. Watch History – Case 3

META STREAM      Previous       Sign Out

■ 2020-12-19 21:44:39 - Research In Laboratory	
■ 2020-12-19 21:44:37 - Timer One Minute	
■ 2020-12-19 21:44:34 - Welcome Hologram	
■ 2020-12-19 21:44:32 - Code	
■ 2020-12-19 21:44:20 - Cosmos	
■ 2020-12-19 21:44:17 - Lake	
■ 2020-12-19 21:44:12 - Animal	
■ 2020-12-19 21:44:10 - Macro Gears	
■ 2020-12-19 21:44:09 - Bridge	
■ 2020-12-19 21:44:07 - Code	
■ 2020-12-19 21:44:01 - Couple Along Beach	
■ 2020-12-19 21:43:59 - Aerial View Of Urban Area	
■ 2020-12-19 21:43:58 - Bird	
■ 2020-12-19 21:43:54 - Aerial View Of Fields	
■ 2020-12-19 21:12:55 - Big Ben And Moon	
■ 2020-12-19 21:10:45 - Big Ben And Moon	
■ 2020-12-19 21:08:46 - Big Ben And Moon	

## 6.27. Manage Watch History – Case 4

META STREAM      8 Selected      Next      Delete      Sign Out

<input checked="" type="checkbox"/> 2020-12-19 21:46:39 - Macro Gears	
<input checked="" type="checkbox"/> 2020-12-19 21:46:38 - Sea	
■ 2020-12-19 21:46:37 - Snow Covered Mountain	
■ 2020-12-19 21:46:35 - Waterfalls	
■ 2020-12-19 21:46:34 - Beach	
<input checked="" type="checkbox"/> 2020-12-19 21:46:33 - Beach And Coconut Trees Aerial View	
■ 2020-12-19 21:46:26 - Construction Aerial View	
■ 2020-12-19 21:46:25 - Intersection Aerial View	
<input checked="" type="checkbox"/> 2020-12-19 21:46:24 - Pyramids	
■ 2020-12-19 21:46:22 - Temple	
<input checked="" type="checkbox"/> 2020-12-19 21:46:21 - Working Site	
■ 2020-12-19 21:46:19 - Aerial View Of City	
■ 2020-12-19 21:46:14 - Puppy At Beach	
<input checked="" type="checkbox"/> 2020-12-19 21:46:12 - Puppy In Front Of Mirror	
■ 2020-12-19 21:46:10 - Seal	
<input checked="" type="checkbox"/> 2020-12-19 21:46:09 - Snail	
■ 2020-12-19 21:46:08 - Snail Slow Motion	
■ 2020-12-19 21:45:56 - Snake	
■ 2020-12-19 21:45:54 - White Tiger Resting In The Woods	
<input checked="" type="checkbox"/> 2020-12-19 21:45:52 - Woman Carrying A Dog	

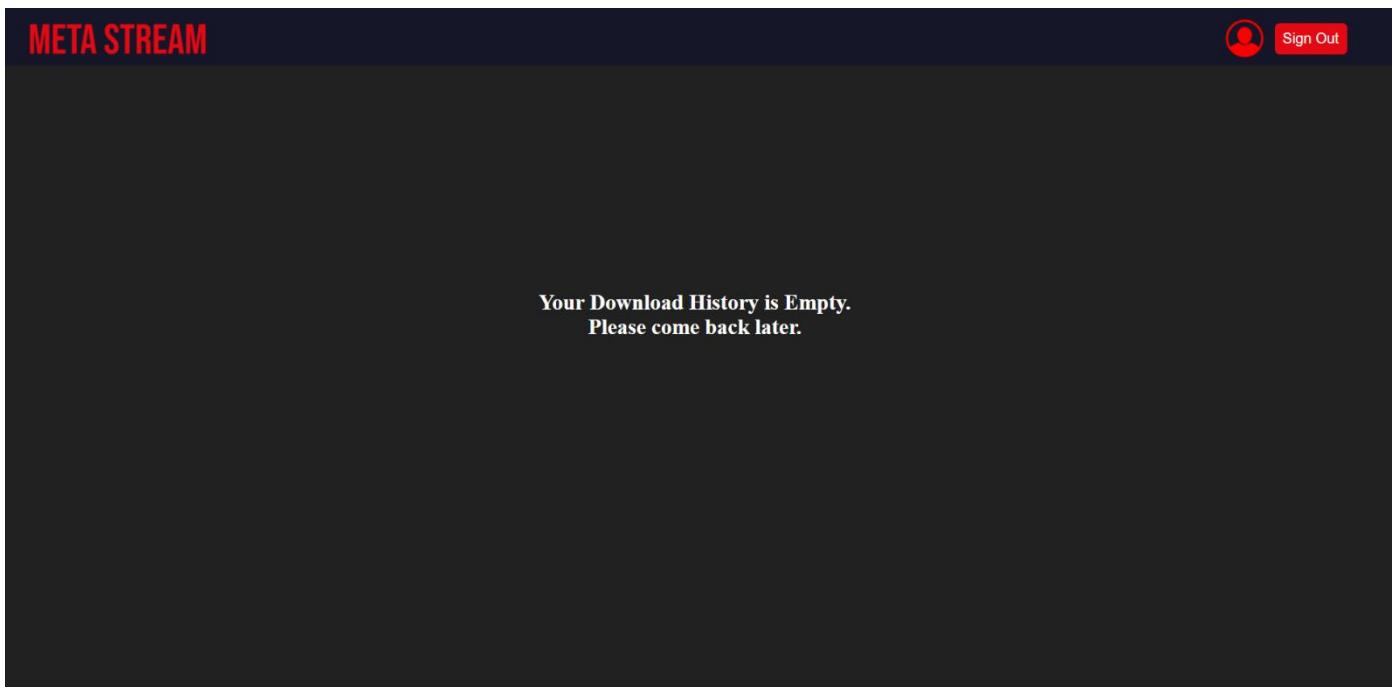
## 6.28. Manage Watch History – Case 5

META STREAM

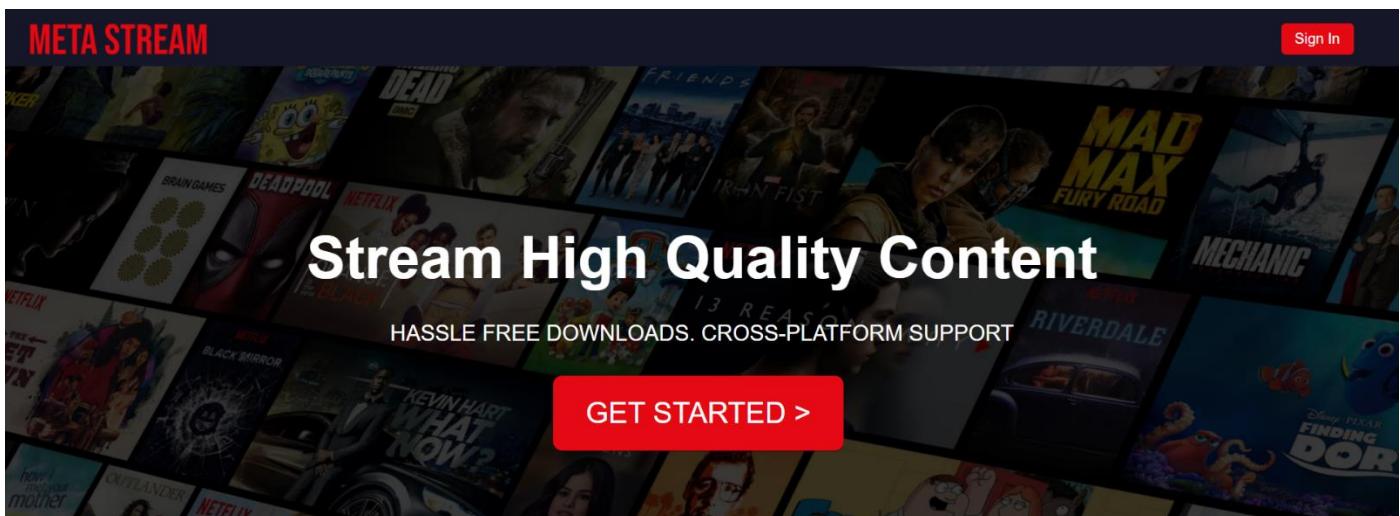
Next Sign Out

- 2020-12-19 21:46:37 - Snow Covered Mountain 
- 2020-12-19 21:46:35 - Waterfalls 
- 2020-12-19 21:46:34 - Beach 
- 2020-12-19 21:46:26 - Construction Aerial View 
- 2020-12-19 21:46:25 - Intersection Aerial View 
- 2020-12-19 21:46:22 - Temple 
- 2020-12-19 21:46:19 - Aerial View Of City 
- 2020-12-19 21:46:14 - Puppy At Beach 
- 2020-12-19 21:46:10 - Seal 
- 2020-12-19 21:46:08 - Snail Slow Motion 
- 2020-12-19 21:45:56 - Snake 
- 2020-12-19 21:45:54 - White Tiger Resting In The Woods 
- 2020-12-19 21:45:50 - Aerial View Of Fields 
- 2020-12-19 21:45:48 - Bud Blossom 
- 2020-12-19 21:45:47 - Dandelion 
- 2020-12-19 21:45:45 - Forest 
- 2020-12-19 21:45:44 - Friends Cycling Back View 
- 2020-12-19 21:45:41 - Friends Cycling Side View 
- 2020-12-19 21:45:39 - Leaves 
- 2020-12-19 21:45:38 - Moving Along Woods 

## 6.29. Manage Download History



## 6.30. Home Page (after log out).



## **7. Conclusion and Future Work**

### **7.1. Conclusion**

The project “**Meta Stream**” has been developed as per the requirement specification. The complete functionality has been thoroughly tested, to eliminate bugs and enhance the user experience.

The design, implementation and the output reports are presented in this project report. The entire project was meticulously designed to ensure seamless user experience and easier incorporation of future modules.

### **7.2. Future Work**

The goals of this project were purposely kept within what was believed to be attainable within the allotted timeline and resources. As such, many improvements can be made upon this initial design. That being said, it is felt that the design could be replicated to a much larger scale. The following are the features we wish to add in the future:

- Incorporate ML to understand usage patterns of users and improve the recommendation algorithm
- Introduce paid subscriptions which include access to exclusive content from leading content creators.
- Improve the overall security of the platform, making it less vulnerable to data breaches.

## 8. References

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