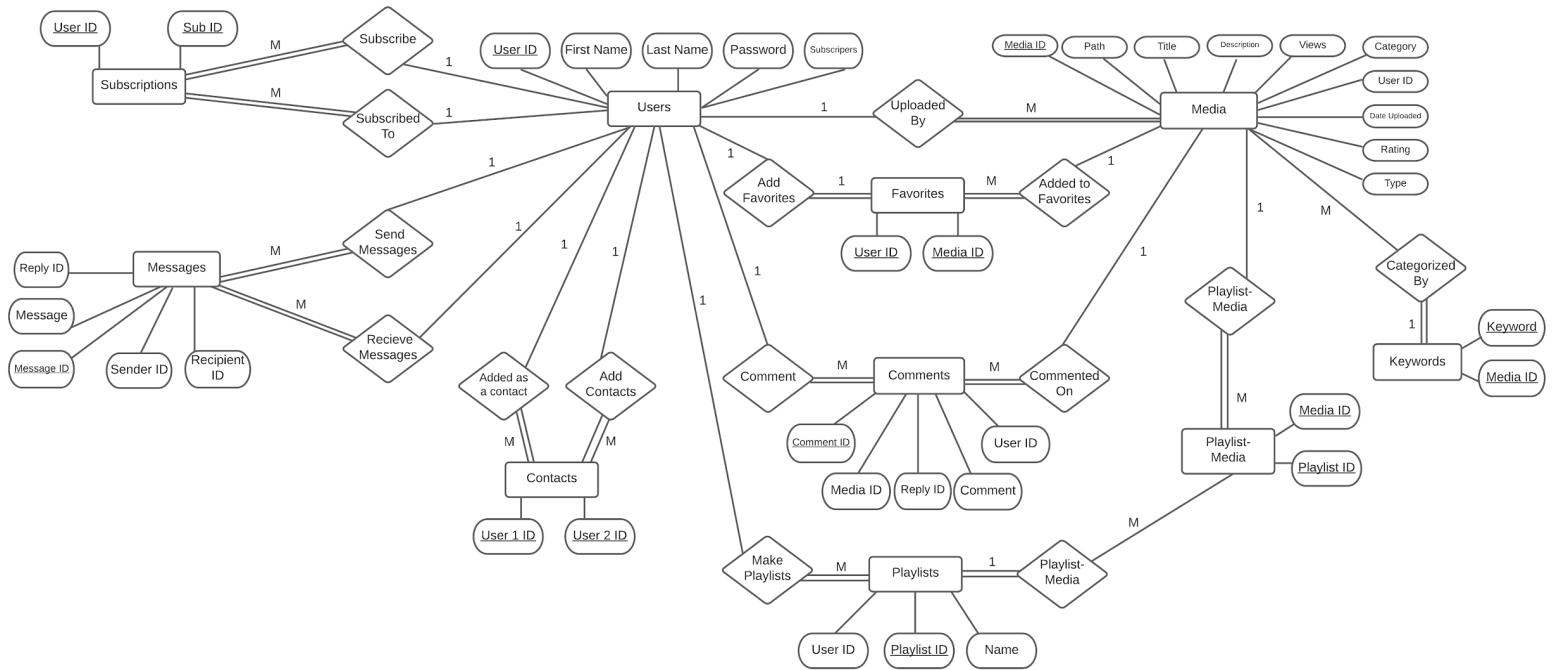


System Design

Our system uses PHP, MySQL, and HTML. We use HTML to structure the web pages and use Bootstrap 5 for styling. We create a MySQL database called CPSC4620-MeTube_uk72 that is hosted on phpMyAdmin. We run MeTube on Linux and host it on webapp.clemson.edu. When users interact with the HTML forms, that data is passed to a PHP script on the server side. We use MySQL commands in our PHP scripts to fetch data from the database that is specified from the user and return it as output to the user's web browser.

ER Diagram



To view the ER diagram in full screen, you can find a full PDF here:

https://drive.google.com/file/d/1ksrsGusRan8yFRVZixCu0VPQpLKnEf_0/view?usp=sharing

Database Schema

```
CREATE TABLE IF NOT EXISTS `Comments` (
    `Media_ID` varchar(50) CHARACTER SET utf8 NOT NULL,
    `User_ID` varchar(50) CHARACTER SET utf8 NOT NULL,
    `Comment` text CHARACTER SET utf8 NOT NULL,
    `Comment_ID` varchar(50) CHARACTER SET utf8 NOT NULL,
    `Reply_ID` varchar(50) CHARACTER SET utf8 NOT NULL,
    PRIMARY KEY (Comment_ID),
    UNIQUE KEY `Comment_ID` (Comment_ID)
);
```

```
CREATE TABLE IF NOT EXISTS `Contacts` (
    `User_ID` varchar(50) CHARACTER SET utf8 NOT NULL,
    `Contact_ID` varchar(50) CHARACTER SET utf8 NOT NULL,
    PRIMARY KEY (User_ID,`Contact_ID`)
);
```

```
CREATE TABLE IF NOT EXISTS `Favorites` (
    `User_ID` varchar(50) CHARACTER SET utf8 NOT NULL,
    `Media_ID` varchar(50) CHARACTER SET utf8 NOT NULL,
    PRIMARY KEY (User_ID,`Media_ID`)
);
```

```
CREATE TABLE IF NOT EXISTS `Keywords` (
    `Keyword` varchar(50) NOT NULL,
    `Media_ID` varchar(50) NOT NULL,
    PRIMARY KEY (Keyword,`Media_ID`)
);
```

```
CREATE TABLE IF NOT EXISTS `Media` (
    `Media_ID` varchar(50) CHARACTER SET utf8 NOT NULL,
    `Path` varchar(300) CHARACTER SET utf8 NOT NULL,
    `Title` varchar(100) CHARACTER SET utf8 NOT NULL,
    `Description` text CHARACTER SET utf8 NOT NULL,
    `Date_Uploaded` datetime NOT NULL,
    `Views` int(11) DEFAULT NULL,
    `Category` text CHARACTER SET ucs2 NOT NULL,
    `Rating` float(1,1) DEFAULT NULL,
    `User_ID` varchar(50) CHARACTER SET utf8 NOT NULL,
    `Media_Type` enum('IMG','VID','AUD') CHARACTER SET utf8 NOT NULL DEFAULT 'IMG',
    PRIMARY KEY (Media_ID),
    UNIQUE KEY `Media_ID` (Media_ID)
);
```

```
CREATE TABLE IF NOT EXISTS `Messages` (
  `Sender_ID` varchar(50) CHARACTER SET utf8 NOT NULL,
  `Recipient_ID` varchar(50) CHARACTER SET utf8 NOT NULL,
  `Message` text CHARACTER SET utf8 NOT NULL,
  `Message_ID` varchar(50) CHARACTER SET utf8 NOT NULL,
  `Reply_ID` varchar(50) CHARACTER SET utf8 NOT NULL,
  PRIMARY KEY (`Message_ID`),
  UNIQUE KEY `Message_ID` (`Message_ID`)
);
```

```
CREATE TABLE IF NOT EXISTS `PlaylistMedia` (
  `Playlist_ID` varchar(50) NOT NULL,
  `Media_ID` varchar(50) NOT NULL,
  PRIMARY KEY (`Playlist_ID`,`Media_ID`)
);
```

```
CREATE TABLE IF NOT EXISTS `Playlists` (
  `User_ID` varchar(50) CHARACTER SET utf8 NOT NULL,
  `Name` varchar(100) CHARACTER SET utf8 NOT NULL,
  `Playlist_ID` varchar(50) NOT NULL,
  PRIMARY KEY (`Playlist_ID`),
  UNIQUE KEY `Playlist_ID` (`Playlist_ID`)
);
```

```
CREATE TABLE IF NOT EXISTS `Subscriptions` (
  `User_ID` varchar(50) CHARACTER SET utf8 NOT NULL,
  `Sub_ID` varchar(50) CHARACTER SET utf8 NOT NULL,
  PRIMARY KEY (`User_ID`,`Sub_ID`)
);
```

```
CREATE TABLE IF NOT EXISTS `Users` (
  `ID` varchar(50) CHARACTER SET utf8 NOT NULL,
  `First_Name` varchar(20) CHARACTER SET utf8 NOT NULL,
  `Last_Name` varchar(20) CHARACTER SET utf8 NOT NULL,
  `Password` varchar(20) CHARACTER SET utf8 NOT NULL,
  `Subscribers` int(11) NOT NULL,
  PRIMARY KEY (`ID`),
  UNIQUE KEY `ID` (`ID`)
);
```

Function Design

- **User Registration:** For users to register, they must click the “Sign Up” button located on the right side of the navigation bar on the top of the page. They are prompted to enter their email address, first and last name, and a password, all of which are required fields. If the user attempts to register without filling out a field, they will receive a message saying “Please fill out this field.” Users’ must enter a valid email address. If they attempt to enter an email address without an @ symbol, they will receive a message saying “Please include an ‘@’ in the email address”. Users cannot register email addresses that are already in the system. If they attempt to register an already existing account, they will get a message saying “This email is associated with an existing account.” Users’ passwords must be at least 6 characters long. Users must also confirm their password. After users type their password once, if they enter a password that doesn’t match in the “Confirm Password” field, they will get a message saying “Passwords do not match.” Once users entered all information correctly, they finalized their account by clicking the “register” button.
- **Sign-In:** For users to sign in, they must click the “Sign in” button located on the right side of the navigation bar on the top of the page. They are prompted to enter their email and their password. If the user enters an email address that is not registered in the system, they will receive a message saying “This email is not associated with any accounts.” If the user enters a password that is incorrect, they will receive a message saying “Incorrect password.” Once a user has entered all of their information correctly, they can click the “Sign In” button to sign into their account. Once signed in, users will be directed to their account page where they can see their uploads, playlists, favorites, contacts, subscriptions, and buttons to upload media and update their profile.
- **Sign-out:** Only users that are signed in may sign out. When a user is signed in, a “Sign out” button shows up on the navigation bar. Once they click this button they are signed out and redirected to the MeTube homepage. Signed out users do not have the “sign out” button on their navigation bar.
- **Profile Update:** When users are signed in, they can find a “Profile Update” button on their profile where they can update their profile. Users are able to change their first name, last name, and password. In order to change their profile info, users must confirm their email and password. If the user enters a password that is incorrect, they will receive a message saying “Incorrect password.” If users change their password, they must confirm the new password in the “Confirm changed password” field. If users enter a password that doesn’t match, they will get a message saying “Passwords do not match.” Once users enter information correctly in the fields they wish to change, they can update their profile by clicking the “Update” button. If they updated their profile successfully, a message saying “Profile Updated!” will appear.

- **Contact List:** When users are signed in, they can find a “Contacts” button on their profile where they can view their contacts, add contacts, and remove contacts. To add a contact, users enter the contact ID/email address in the “Add Contact ID” field. Once a user is added to the contact list, a message saying the contact was “added to contact list” is displayed, and the contact list is updated. If users attempt to add a contact that is already in their contact list, a message saying the contact “is already in your contact list” is displayed. To remove a contact, users enter the contact ID/email address in the “Remove Contact ID” field. Once a contact is removed, a message saying the contact is “removed from contact list” is displayed, and the contact list is updated. If users attempt to remove a contact that is not in their contact list, a message saying the contact is “not in contact list” is displayed.
- **Upload:** When users are signed in, they can find a “upload” button on their profile where they can upload media. To upload media, users are prompted to enter a title, keywords, and description, as well as select a category and the piece of media they wish to upload. All fields are required, and if a user attempts to upload without filling out a field a message saying “Please fill out this field” will be displayed. Users may upload media that has a title that already exists. Users may also upload media with a file name that already exists, as the system is designed to avoid duplicate file names.
- **Downloads:** When a user clicks on a piece of media, they will be directed to the media view. On the media view, users will see a “Download” button that allows them to download the piece of media.
- **View Media Files:** All users can click on a piece of media to be directed to the media view. On the media view, all users can view the piece of media, the title, number of views, the ID of the user who uploaded the media, the description, the comments, and a “Download” button. Signed in users also have the option to favorite, comment and add the media to a playlist.
- **Browse by Category:** On the homepage, all users can use the side panel labeled “Browse by Category” to view media of a specific category. The available categories are music, gaming, animals, sports, comedy, news, and other. Once a user clicks a button for the category they wish to browse, the system displays media that is classified as that category by the uploader.
- **Channel:** All users can view other users’ channels by clicking on the user ID of the media uploader. User’s will be redirected to the appropriate uploader’s channel, where they can view all of the media by that uploader. Signed in users will also see options to subscribe to the channel. If the user is already subscribed to the channel, they won’t be able to subscribe again. If a user subscribes to a channel, they will be able to view that channel’s media in the “Subscriptions” section of the homepage.
- **Playlists:** Signed in users have a playlist section on their profile. Here, users can view their playlists. They can also create a new playlist. By default, the name of a playlist will be “New Playlist”. Users can change the name or delete a playlist. To add content to a

playlist, users can click the “Add to playlist” button when they view a piece of media. Once they add media to a playlist, the playlist will be updated and will display the title and ID of the uploader. Users can also remove the piece of media from the playlist.

- **Favorite Lists:** Signed in users have a favorites section on their profile. Here, users can view the media that they favorited. To favorite a piece of media, users can click the “favorite” button when they view media, and it will be added to their favorites list. If the user already favorited the media, they won’t be able to favorite it again.
- **Most Viewed:** On the homepage, there is a “Most viewed media” section where all users can see the top 5 most viewed pieces of media.
- **Most Recently Uploaded:** On the homepage, there is a “Most recently uploaded media” section where all users can see the 5 most recently uploaded pieces of media.
- **Messaging:** On their homepage, users can message users in their contacts. To send a message, users select a contact they wish to communicate with and compose their message. Messages the user sends will be organized in their “Outbox”, and messages the user receives will be organized in their “Inbox”. Users can also reply to messages in their inbox, and these replies will be organized hierarchically in their outbox.
- **Commenting on a Media File:** All users can view comments on media. The comments display the ID of the commenter and the comment. Comments that reply to previous comments are nested below the original comment. Signed in users can comment on a piece of media and reply to existing comments.
- **Keywords-based Search:** All users can search for content by using the search bar on the navigation bar. Users can search by keywords. The result will be the media that has an uploader-specified keyword that matches the search. In the case that no media matches the search, a message saying “No media found” will be displayed.

Implementation Details

- **User Registration:**
 - We create an HTML form for users to fill out to register with. When users click the “sign up” button, they are redirected to a page with the form. When they fill out the form, the data is sent to a php script that cleans the input, validates passwords, and checks that all required fields are filled out. The script queries the User table to ensure that the email is not already associated with an existing account. If all information was entered correctly into the form, the script inserts the email, first name, last name, and password into the User table. If not, error messages are echoed.
- **Sign-In:**
 - We create an HTML form for users to sign in with. When users click the “sign in” button, they are redirected to a page with the form. When they fill out the form, the data is sent to a php script that cleans the input, validates passwords, and checks that all required fields are filled out. The script queries the User table to ensure that the email exists in the system and the associated password is correct. If the email and password information is entered correctly, the user ID is stored in a PHP session in a variable called signed_in_user_ID. This ID is used across different pages for conditional rendering. If the information is not entered correctly, the script echoes error messages.
- **Sign-Out:**
 - We create a button for users to use to sign out with. When a session is started, the user can view the “sign out” button on the navigation bar. When the user signs out, the PHP session is updated and resets the signed_in_user_ID variable. After signing out, users are redirected to the homepage.
- **User Profile:**
 - When a session is started, users can view their profile by clicking their user ID on the navigation bar. To display the media uploaded by the user, we query the Media table for all instances where the User_ID value is equal to the current user’s ID. We display the user’s subscriptions by querying the Subscriptions table for all Sub_ID’s where the User_ID is equal to the current user’s ID. We display the user’s favorites by querying the Favorites table for all Media_ID’s where the User_ID is equal to the current user’s ID. We display the user’s playlists by querying the user’s playlists for all playlist Name’s where the User_ID is equal to the current user’s ID.
- **Profile Update:**
 - We create a HTML form for users to update their profile information with. When users click the “ProfileUpdate” button on their profile, they are redirected to a page with the form. When they fill out the form, the data is sent to a php script that validates the accounts email and password, and checks that all required

fields are filled out. The script queries the User table to ensure that the email is correct for the current user, and that the password is correct. If the user fills out the “change first name” or “change last name” fields, the script updates the User table with the new first/last name for the user with the current user ID. If the user fills out the “change password” field, the script checks that the confirmed changed password matches, and then updates the User table with the new password for the user with the current user ID.

- **Contact List:**

- We create a HTML form for users to add or remove contacts with. When users click the “Contacts” button on their profile, they are redirected to a page with the form. When they fill out the form, the data is sent to a php script. If the user enters a contact ID in the “add contact” field, the script queries the Contact table for all Contact_IDs where the User_ID is equal to the current user’s ID. If the contact ID the user specified is already a contact, the script echoes an error message saying the contact is already in the contact list. If not, the script inserts the contact ID and current user’s ID into the Contacts table. If the user enters a contact ID in the “remove contact” field, the script queries the Contact table for all Contact_IDs where the User_ID is equal to the current user’s ID. If the contact ID the user specified is not in the contact table, the script echoes an error message saying that the contact is not in the contact list. If the contact does exist, the script deletes the Contact_ID from the Contacts table where the User_ID is equal to the current user’s ID. We display the contact list by querying the Contact table for all Contact_IDs where the User_ID is equal to the current user’s ID.

- **Upload:**

- We create an HTML form for users to upload media with. When users click the “upload” button on their user profile, they are redirected to a page with the form. Only signed in users can access a user profile, so uploads are only made by signed in users. When the user fills out the form, the data is sent to a php script that ensures all fields are completed. If any fields isn’t filled, the script echoes an error message. If the files are completed correctly, the script collects the timestamp and generates a random unique id using unique() in php. A media ID is created that combines the unique ID with the timestamp. The script collects the file name submitted by the user, and adds the media ID to the front of the original file name to ensure that every file name is unique. A folder called “uploads” is created on the server side, and the media files are stored in the folder. The script stores the path for each media file using the “uploads” directory and the new file name. The script collects the file type, the title, description, keywords, and category. The keywords string is separated and each individual keyword is stored in an array. The script inserts the Media_ID, path,

Title, Description, Date, Category, User_ID, and Media_Type into the Media table. Each keyword in the keyword array is inserted into the Keywords table along with the corresponding Media_ID.

- **View media files:**

- We create a file that creates a media file view. When a user clicks the thumbnail of a media file, they are redirected to the file that creates the media view. The media is displayed by querying the Media table for the path that matches the Media_ID of the thumbnail that was clicked. The media file found at the path is displayed. The name, description, views, keywords, category, and user ID is displayed by querying those attributes from the Media table where the Media_ID is equal to the ID of the thumbnail that was clicked. The number of comments is generated by querying the Comments table and summing the number of Comments where the Media_ID is equal to the ID of the thumbnail that was clicked. The comments themselves are displayed by querying the Comments table for all instances where the Media_ID is equal to the thumbnail's ID and recursively displaying comments that have a Reply_ID. We use conditional rendering so that signed in users have the option to favorite, comment, and add the media to a playlist. If the signed_in_user_ID is not null, these advanced features are not null.

- **Download:**

- We create a HTML button for users to download media. The reference in the button is the file path where the media file can be found. When viewing a media file, if the "download" button is clicked, the media file at the current path is downloaded.

- **Browse by Category:**

- We create a HTML form that allows users to browse by category. The form is made of several buttons, one for each category. When a user clicks on a category button, the data is sent to a php script. The script queries the media table for all instances where the category matches the button clicked. The relevant media is displayed.

- **Channel:**

- We create a file for the channel view. When a user clicks a user ID, they are redirected to the channel view page. The channel's content is displayed by querying the Media table for all instances where the User_ID is equal to the channel's user ID. We use conditional rendering so that users that are signed in have the option to subscribe to the channel. If the signed_in_user_ID is not null, the feature to subscribe is available.
- **Subscription:** When a user clicks the subscribe button on a channel, the channel's user ID and the current user's user ID are inserted into the Subscription table.

- **Playlists:**
 - We create a page that allows users to view, create, delete and edit playlists. When users click the “create new playlist” button on their profile, they are redirected to the playlist page. A unique playlist ID is generated, and the playlist is given a default name of “new playlist”. Unless the user changes the name, the playlist ID, name, and current user’s ID are inserted into the Playlist table.
 - On the media view, we display a list of playlists a signed in user can add the piece of media to. The list of available playlists is generated by querying the Playlist table for all instances where the User_ID matches the current user’s ID. When a user adds a piece of media to a playlist, the media ID and the playlist ID are inserted into the PlaylistMedia table.
 - When viewing a playlist, a user can remove a media file. When this occurs, the script deletes the instance in the PlaylistMedia table with the corresponding Media_ID and Playlist_ID. A user can also delete an entire playlist. When this occurs, the script deletes the instance in the Playlist table with the corresponding Playlist_ID.
- **Favorites List:**
 - We display a user’s favorites on the user profile by querying the Favorites table for all Media_ID’s where the User_ID is equal to the current user’s ID.
 - When a signed in user clicks the “favorite” button on a piece of media, the user’s ID and media ID are inserted into the Favorites table.
- **Homepage:**
 - The MeTube homepage consists of the most popular media and the newest media. We use conditional rendering to display subscription media for signed in users.
 - **Most Viewed:** We display the most viewed media by querying the Media table for the Media_IDs with the top 5 view counts.
 - **Most Recently Uploaded:** We display the most recently uploaded media by querying the Media table for the Media_IDs with the 5 most recent upload dates.
 - **Subscriptions:** We display a user’s subscription’s media by querying the Subscription table for all instances where the User_ID is equal to the current user’s ID. For each ID of the subscriptions, we query the Media table for all Media_IDs where the User_ID is equal to the subscription’s ID.
- **Messaging:**
 - We create a page for users to view and send messages. When users click the “messaging” button on their profile, they are redirected to the messaging page. To display inbox messages, we query the Messages table for all messages where the Recipient_ID is equal to the current user’s ID. To display the outbox messages, we query the Messages table for all messages where the Sender_ID is equal to the current user’s ID. To reply to a message, users click the reply

button on an existing message. This adds a reply ID to the reply message the user is sending. All messages received that have a Reply_ID are placed in the inbox and under the original outgoing message in the outbox. We create a HTML form for the users to send messages with. Users select the contact and type their message in the “message body” field. Once submitted, the data is sent to a php script. The script generates a message ID, and inserts the message, message ID, sender ID, recipient ID into the Messages table. For messages that are replies, the reply ID is also inserted into the Messages table.

- **Commenting:**

- We create an HTML form for signed in users to leave a comment on a media file. When users submit, the data is sent to a php script. A comment ID is generated. If the message is in reply to another message, the ID of the original comment is recorded as a reply ID. The comment, comment ID, reply ID, media ID, and user ID are inserted into the Comments table.

- **Keyword-Based Search:**

- We create an HTML form for users to search for media based on keywords. When a user searches for a string using the search bar, the data is sent to a php script. The script queries the Keywords table for Media_IDs where the Keyword is equal to the user’s search. We display relevant content using the media IDs that are returned. If no media uses the keyword, the script echoes a message saying there are no search results.

Test Cases

- **User Registration:**
 - 1) Successful Test Case: All fields were filled, the email address was valid, and the passwords matched. This account was correctly registered.
 - Inputs:
 - Email: testcase@gmail.com
 - First: test
 - Last: case
 - Password: testcase
 - Confirmed Password: testcase
 - Output:
 - User is successfully registered. The page redirects to the newly created user profile.

The screenshot shows a registration form with the following fields and values:

- Email: testcase@gmail.com
- First Name: test
- Last Name: case
- Password: (Redacted)
- Confirm Password: (Redacted)
- Register button: A blue button labeled "Register".

- 2) Unsuccessful Test Case: All fields were filled, passwords matched, but the email address was not valid. An error message was displayed indicating that an @ symbol was needed. User was not able to register.

- Inputs:
 - **Email: testcase**
 - First: test
 - Last: case
 - Password: testcase
 - Confirmed Password: testcase

- Output:
 - User is not successfully registered. They are warned that they must enter a valid email address.

The screenshot shows a 'Register' form with the following fields:

- Email: (highlighted with a blue border)
- Error Message:** Please include an '@' in the email address. 'testcase' is missing an '@'.
- First:
- Last:
- Password:
- Confirm Password:
- Register button

3) Unsuccessful Test Case: All fields were filled and the email address was valid, but the passwords did not match. An error message was displayed that indicated that the passwords didn't match. User was not able to register.

- Input:
 - Email: testcase@gmail.com
 - First: test
 - Last: case
 - Password: testcase
 - **Confirmed Password: 111111111111**
- Output:
 - User is not successfully registered. They are warned that the passwords do not match.

Register

Email:

First Name: Last Name:

Password:

Confirm Password:

Passwords do not match.

Register

- **Sign In:**

- 1) Successful Test Case: The correct email address and password were entered for this account. The system allowed the account to be signed into, and it redirected to the user profile.
 - Input:
 - Email: testcase@gmail.com
 - Password: testcase
 - Output:
 - The user is successfully logged into their account. The page redirects to their profile.

Sign In

Email:

Password:

Sign In

The screenshot shows the MeTube dashboard. At the top, there is a header bar with the logo "MeTube", a search input field, and a "Search" button. To the right of the header are links for "testcase@gmail.com" and "Sign Out". Below the header, the user's email address "testcase@gmail.com" is displayed. There is a "Upload" button and a section titled "Your Media" which contains a message "No media found.". To the right of this, there are sections for "Your Subscriptions" (empty), "Your Favorites" (empty), and "Your Playlists" (empty). A yellow "Create New Playlist" button is located at the bottom of the playlist section.

- 2) Unsuccessful Test Case: The incorrect email address was entered. An error message was displayed saying that the email was not associated with any account. User was not able to sign in.
- Input:
 - **Email: testcase@g.com**
 - Password: testcase
 - Output:
 - The user is not successfully logged into their account. They are warned that the email is not associated with any account.

The screenshot shows a "Sign In" page. It has fields for "Email" (containing "testcase@g.com") and "Password" (containing several dots). Below the email field, an error message is displayed: "This email is not associated with any accounts." A blue "Sign In" button is at the bottom.

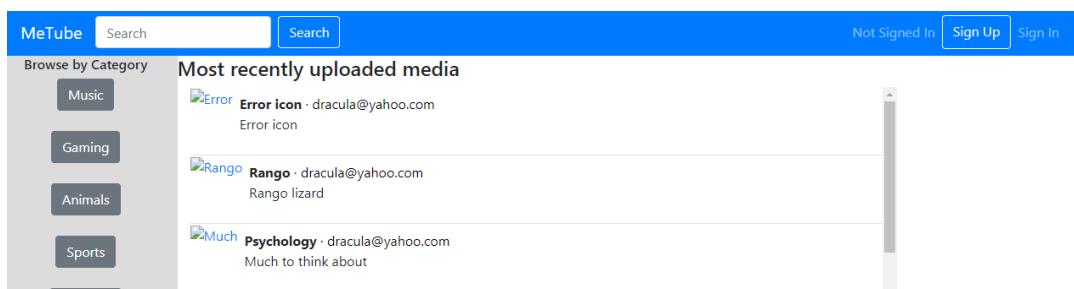
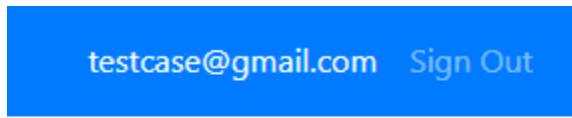
- 3) Unsuccessful Test Case: The email address was correctly entered, but the password was incorrect. An error message saying "Incorrect password" was displayed. User was not able to sign in.
- Input:
 - Email: testcase@gmail.com
 - **Password: 111111111111111111**
 - Output:

- The user is not successfully logged into their account. They are warned that the password is incorrect.

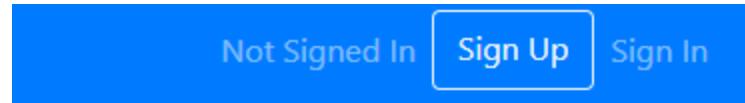
The image shows a "Sign In" form. It has fields for "Email" containing "testcase@gmail.com" and "Password" containing a series of dots. Below the password field, the text "Incorrect password." is displayed in red. A blue "Sign In" button is at the bottom.

- **Sign Out:**

- 1) Successful Test Case: The account is signed into, and the “sign out” button is clicked on the navigation bar. Clicking “sign out” redirects the user to the homepage for a signed-out user.



- 2) Unsuccessful Test Case: No account is signed into, and the “sign out” button is not available on the navigation bar. User cannot sign out of accounts that they aren't signed into.



- **Profile Update:**

- 1) Successful Test Case: The account's email and password were confirmed and only the first name was changed. The update was successful.
 - Input:
 - Email: testcase@gmail.com
 - Password: testcase
 - Changed First Name: newTest
 - Output:
 - The user successfully updates their account.

Profile Update

Confirm Email:

Confirm Password:

Change First Name:

Change Last Name:

Change Password:

Confirm Changed Password:

Update

- 2) Unsuccessful Test Case: The user was asked to confirm the password for the account and an incorrect password was entered. An error message saying

“Incorrect password” was displayed. The user was not able to update their profile.

- Input:
 - Email: testcase@gmail.com
 - **Password: 1111111111111111**
 - Changed First Name: newTest
- Output:
 - The user does not successfully update their account. They are warned that the password is incorrect.

Profile Update

Confirm Email:

Confirm Password:

Incorrect password.

Change First Name:

Change Last Name:

Change Password:

Confirm Changed Password:

Update

- 3) Unsuccessful Test Case: The old account information was correct and confirmed, but the new passwords did not match. An error message was displayed saying “Passwords do not match.” User was not able to update their profile.
 - Input:
 - Email: testcase@gmail.com
 - Password: testcase
 - Changed Password: testcase1
 - **Changed Password Confirmation: 1111111111111111**
 - Output:
 - The user does not successfully update their account. They are warned that the changed passwords do not match.

Profile Update

Confirm Email:

Confirm Password:

Change First Name:

Change Last Name:

Change Password:

Confirm Changed Password:

Passwords do not match.

Update

- **Upload:**

- 1) Successful Test Case: All fields were filled out correctly, and the media was uploaded. The user profile page was updated to show the newly uploaded media.
 - Input:
 - Title: bunny
 - Keywords: bunny, animal, cute
 - Category: Animals
 - Description: picture of a bunny
 - File: bunny.jpeg
 - Output:
 - The user successfully uploads the media file. The media is added to their account.

Upload

Title:

Keywords: 

Category:

- Music
- Gaming
- Animals
- Sports
- Comedy
- News
- Other

Description: 

File:

Upload

MeTube testcase@gmail.com Sign Out

testcase@gmail.com

Upload

Your Media



Your Subscriptions
No subscriptions found.

Your Favorites
No favorites found.

Your Playlists
No playlists found.
Create New Playlist

- 2) Unsuccessful Test Case: No Title is given to the media. An error message is displayed that says “Please fill out this field”. The user was not able to upload media.
- Input:
 - **Title: none**
 - Keywords: bunny, animal, cute
 - Category: Animals
 - Description: picture of a bunny
 - File: bunny.jpeg
 - Output:

- The user does not successfully upload the media file. They are warned that they must enter a title.

Upload

Title:

Keywords: ! Please fill out this field.

bunny, animal 

Category:

Music
 Gaming
 Animals
 Sports
 Comedy
 News
 Other

Description:

bunny 

File:

bunny.jpg

Upload

- 3) Unsuccessful Test Case: No file was selected to be uploaded. An error message is displayed that says “Please select a file.” The user was not able to upload media.
 - Input:
 - Title: bunny
 - Keywords: bunny, animal, cute
 - Category: Animals
 - Description: picture of a bunny
 - **File: none**
 - Output:
 - The user does not successfully upload the media file. They are warned that they must select a file.

Upload

Title:

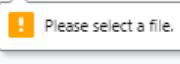
Keywords: 

Category:

- Music
- Gaming
- Animals
- Sports
- Comedy
- News
- Other

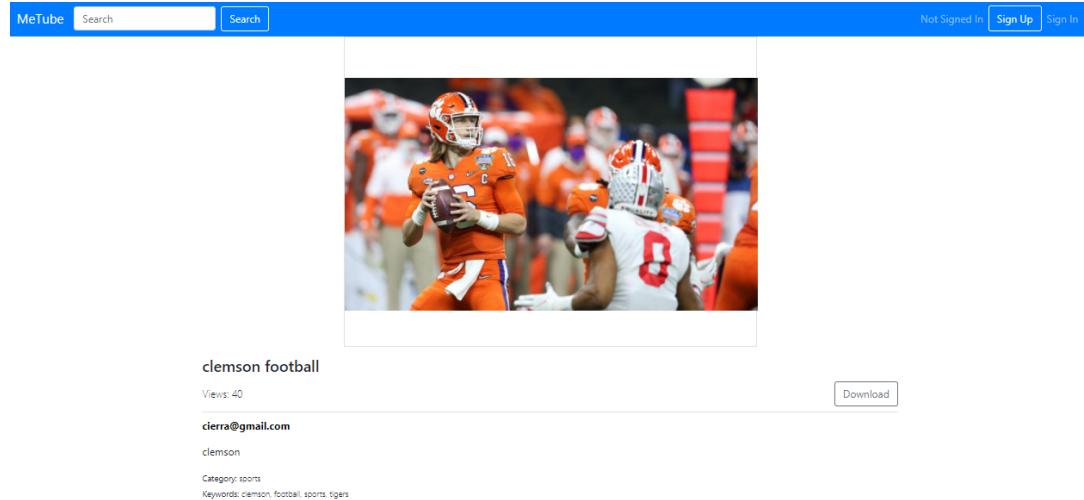
Description: 

File: No file chosen

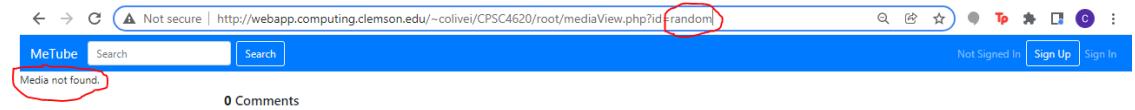
 Upload 

- View Media Files:

- 1) Successful Test Case: The user is able to view a media file by clicking on the media thumbnail. The user sees the media, the user ID, the description, and other information about the piece of media.

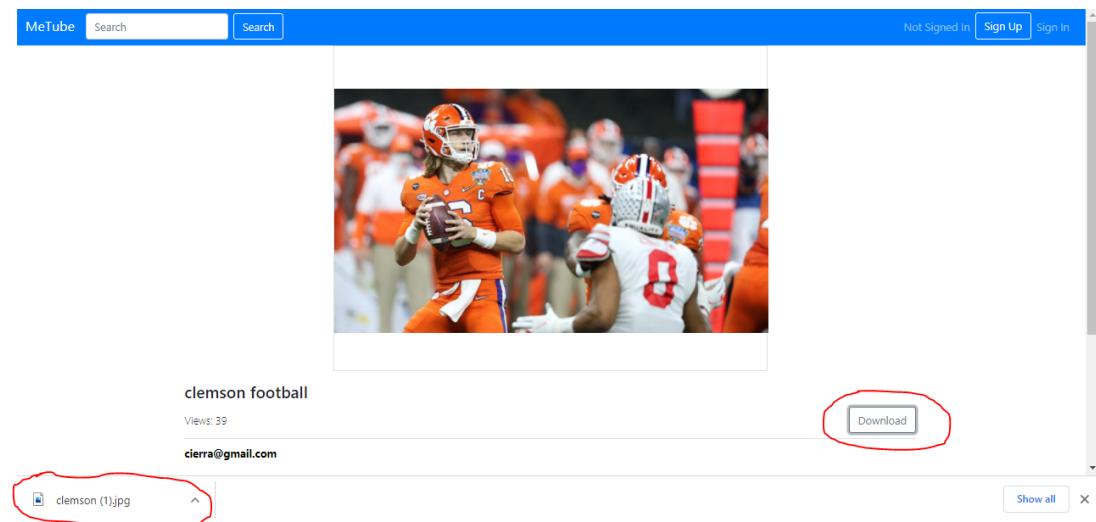


- 2) Unsuccessful Test Case: If users attempt to insert a media ID in the url that is not in the system, the system will return an error message saying "Media not found." The user cannot view media with a media ID that is not valid.



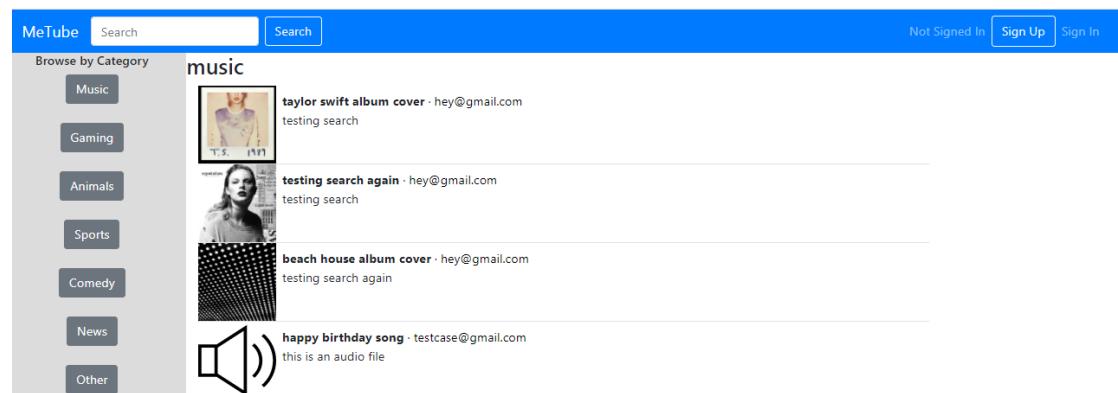
- **Download:**

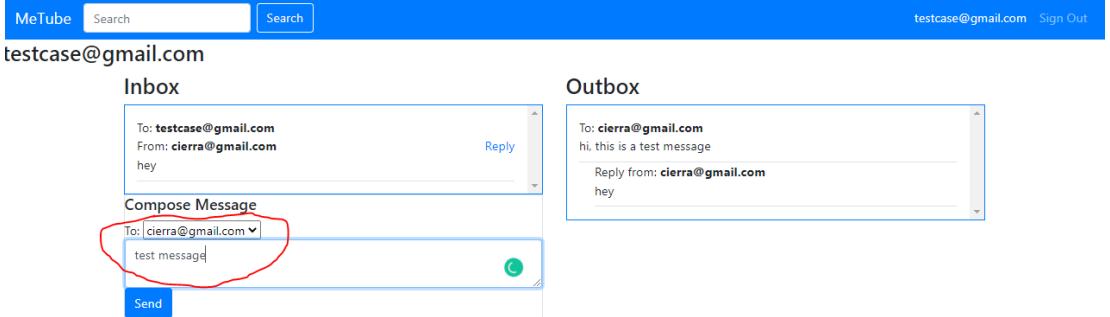
- 1) Successful Test Case: The user presses the download button when viewing a piece of media, and it is downloaded onto the users local machine.



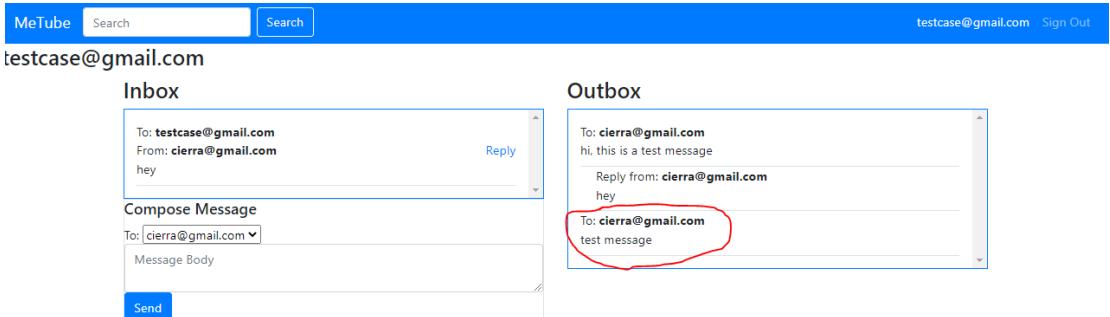
- **Browse By Category:**

- 1) Successful Test Case: The user clicks the “Music” button on the “Browse by category” panel on the homepage, and media related to music is shown.

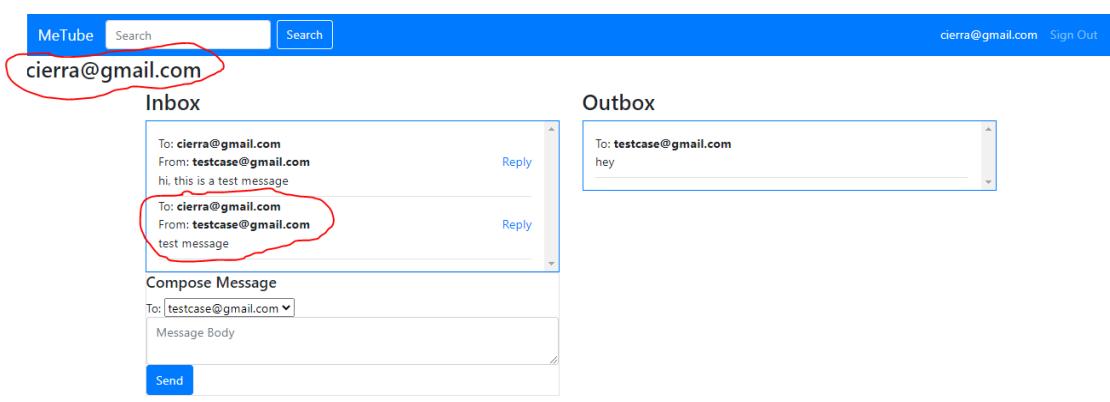


- 2) Unsuccessful Test Case: The user attempts to browse media about cars. There is no built in category for cars, so the user cannot use the “browse by category” panel to find content related to cars. Instead, they must use the search function.
- **Messaging:**
 - 1) Successful Test Case: The signed in user sends a message to user cierra@gmail.com. The message is added to the user’s outbox and the recipient’s inbox.

The screenshot shows the MeTube messaging interface. At the top, there are three search bars labeled 'MeTube', 'Search', and 'Search'. On the right, it says 'testcase@gmail.com Sign Out'. Below this, the recipient's email 'testcase@gmail.com' is displayed. The interface is divided into two main sections: 'Inbox' and 'Outbox'. In the 'Inbox' section, there is one message from 'cierra@gmail.com' with the subject 'hey'. In the 'Compose Message' section, the recipient 'cierra@gmail.com' is selected in the 'To:' field, and the message body contains 'test message'. A red circle highlights the 'Send' button. In the 'Outbox' section, the message has been sent, showing the recipient 'cierra@gmail.com', the subject 'hey', and the message body 'hi, this is a test message'. A red circle highlights the message entry in the outbox.



This screenshot shows the same messaging interface after the message has been sent. The 'Inbox' section now contains the message from 'cierra@gmail.com'. The 'Compose Message' section shows the message being composed again, with 'cierra@gmail.com' in the 'To:' field and the message body 'Message Body'. A red circle highlights the 'Send' button. In the 'Outbox' section, the message has been sent, showing the recipient 'cierra@gmail.com', the subject 'hey', and the message body 'hi, this is a test message'. A red circle highlights the message entry in the outbox.



This screenshot shows the messaging interface after the user has removed 'hey@gmail.com' from their contacts. The recipient's email 'cierra@gmail.com' is circled in red at the top. In the 'Compose Message' section, the recipient 'cierra@gmail.com' is selected in the 'To:' field, and the message body contains 'test message'. A red circle highlights the 'Send' button. In the 'Outbox' section, the message has been sent, showing the recipient 'testcase@gmail.com', the subject 'hey', and the message body 'hi, this is a test message'. A red circle highlights the message entry in the outbox.

 - 2) Unsuccessful Test Case: The user removes hey@gmail.com from their contact list. They attempt to send hey@gmail.com a message. They are unsuccessful, as the old contact no longer shows up as an available message recipient.

MeTube Search Search cierra@gmail.com Sign Out

cierra@gmail.com

Add Contact ID:

Remove Contact ID:

hey@gmail.com removed from contact list.

Submit

Your Contacts:

testcase@gmail.com

MeTube Search Search cierra@gmail.com Sign Out

cierra@gmail.com

Inbox

To: cierra@gmail.com
From: testcase@gmail.com
hi, this is a test message

To: cierra@gmail.com
From: testcase@gmail.com
test message

Outbox

To: testcase@gmail.com
hey

Compose Message

To:

Send

- 3) Unsuccessful Test Case: The user is not signed in and attempts to send a message to testcase@gmail.com. The user is unsuccessful because those who are not signed do not have the option to send messages.

MeTube Search Search Not Signed In Sign Up Sign In

testcase@gmail.com

Uploads

bunny picture of a bunny

happy birthday song this is an audio file

- Channel:

- 1) Successful Test Case: The signed in user can view a channel, see its uploads and subscribe. The user subscribed to the channel with ID "cierra@gmail.com" and the user's subscription box was updated.

MeTube Search Search testcase@gmail.com Sign Out

cierra@gmail.com

Uploads

 stardew valley
i like stardew valley!

 another cat
cat with new categories

 cow
pic of a cow

 bird
gif of a bird

 my first meme
meme

MeTube Search Search testcase@gmail.com Sign Out

testcase@gmail.com

Upload

Your Media

 bunny
picture of a bunny

 happy birthday song
this is an audio file

Your Subscriptions

cierra@gmail.com

Your Favorites

cow uploaded by cierra@gmail.com

clemson football uploaded by cierra@gmail.com

Your Playlists

playlist1

Create New Playlist

- 2) Unsuccessful Test Case: If a user is already subscribed to a channel, they cannot subscribe again. They are only allowed to unsubscribe.

MeTube Search Search testcase@gmail.com Sign Out

cierra@gmail.com

Uploads

 stardew valley
i love stardew valley!

- 3) Unsuccessful Test Case: A signed out user can view a channel, but cannot subscribe.

MeTube Search Search

Not Signed In Sign Up Sign In

cierra@gmail.com

Uploads

stardew valley i like stardew valley!

another cat cat with new categories

cow pic of a cow

- Playlists

- 1) Successful Test Case: The signed in user created a playlist called playlist1, and the user's playlist list was updated on their profile. The user added a piece of media to playlist1, and the playlist was updated with that media.

MeTube Search

playlist1 Save Name Delete Playlist

No items found.

Back

testcase@gmail.com Sign Out

Your Subscriptions

cierra@gmail.com

Your Favorites

cow uploaded by cierra@gmail.com

clemson football uploaded by cierra@gmail.com

Your Playlists

playlist1

Create New Playlist



clemson football

Views: 42

cierra@gmail.com

clemson

Category: sports
Keywords: clemson, football, sports, tigers

playlist1 ▾ Add to playlist

playlist1

MeTube Search Search

playlist1 [Save Name](#) [Delete Playlist](#)

clemson football uploaded by cierra@gmail.com [Remove](#)

[Back](#)

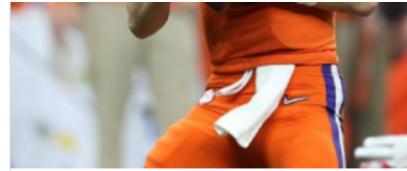
- 2) Unsuccessful Test Case: The signed in user deleted playlist1, and there is no longer an option to add a piece of media to a playlist.

MeTube Search Search

playlist1 [Save Name](#) [Delete Playlist](#)

bunny uploaded by you [Remove](#)

[Back](#)



clemson football

Views: 13

cierra@gmail.com

clemson

0 Comments

- 3) Unsuccessful Test Case: A signed out user cannot add media to a playlist.



clemson football

Views: 14

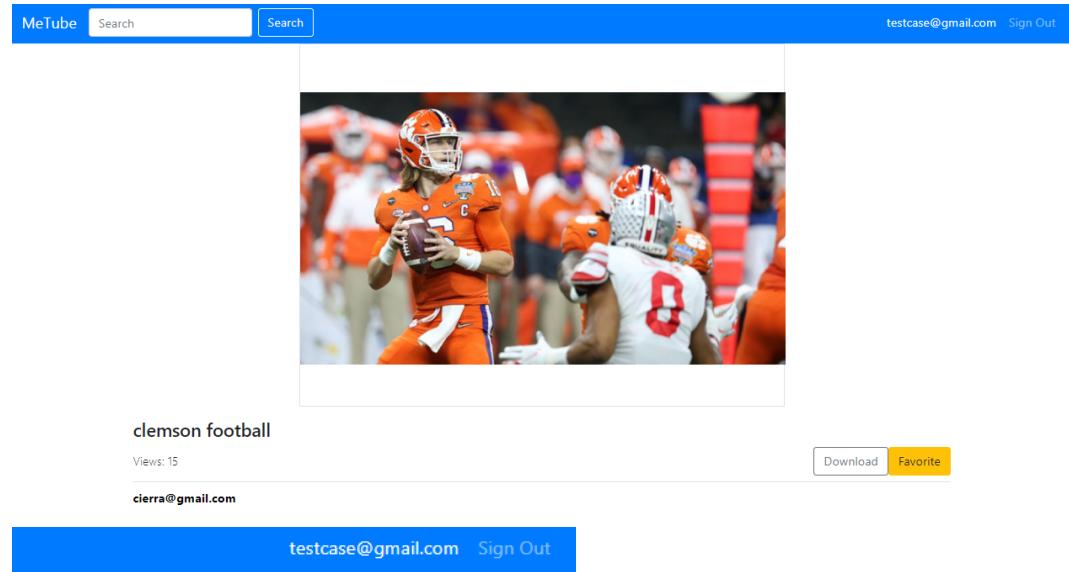
Download

cierra@gmail.com

clemson

- Favorites

- 1) Successful Test Case: A signed in user favorited a piece of media, and it was added to their favorites list.



Your Subscriptions

[cierra@gmail.com](#)

Your Favorites

[clemson football](#) uploaded by [cierra@gmail.com](#)

Your Playlists

No playlists found.

[Create New Playlist](#)

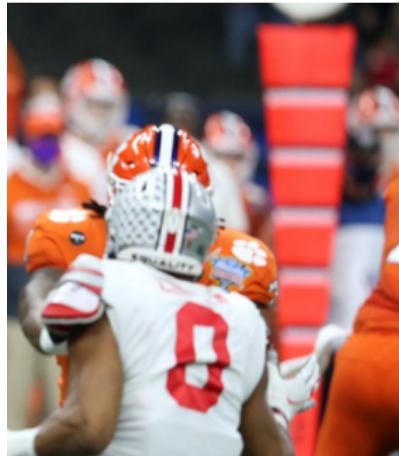
- 2) Unsuccessful Test Case: Once a user has favorited a piece of media, they cannot favorite it again. The favorite button turns white and indicates that the media has been “favorited”.



[Download](#) [Favorited](#)

- 3) Unsuccessful Test Case: A signed out user cannot favorite a piece of media.

Not Signed In [Sign Up](#) [Sign In](#)



[Download](#)

- **Commenting:**

- 1) Successful Test Case: A signed in user can leave a comment on a media file.

clemson football

Views: 20

cierra@gmail.com

clemson

0 Comments

test comment

Comment

clemson football

Views: 23

cierra@gmail.com

clemson

1 Comments

testcase@gmail.com (619bb0f301c99)

test comment

Leave a comment.

Comment

- 2) Unsuccessful Test Case: A signed out user can view comments but cannot comment on a media file.

clemson football

Views: 22

ciera@gmail.com

clemson

1 Comments

testcase@gmail.com (619bb0f301c99)

test comment

- Keywords-based search

- 1) Successful Test Case: All users can search for media based on uploader-specified keywords. The user searches for “music” and relevant media is displayed.
 - Input: music
 - Output: 2 media files with the “music” keyword

The screenshot shows a blue header bar with the text "MeTube" on the left and a search bar on the right containing the word "Search". Below the header, the text "Search results for 'music':" is displayed. There are two search results listed. The first result is a thumbnail image of Taylor Swift's "reputation" album cover, followed by the text "testing search again · hey@gmail.com" and "testing search". The second result is a thumbnail image of a black and white album cover with a grid pattern, followed by the text "beach house album cover · hey@gmail.com" and "testing search again".

- 2) Unsuccessful Test Case: Searching for content that doesn't match with any media will give no results.
 - Input: oefbkwbfbib
 - Output: no media

MeTube

Search results for 'oefbkwbfbib':

No media found.

- 3) Unsuccessful Test Case: Keywords should be searched one at a time.
Combining multiple keywords will give no results. Searching “music and dogs” produced no results.
- Input: music and dogs
 - Output: no media

MeTube

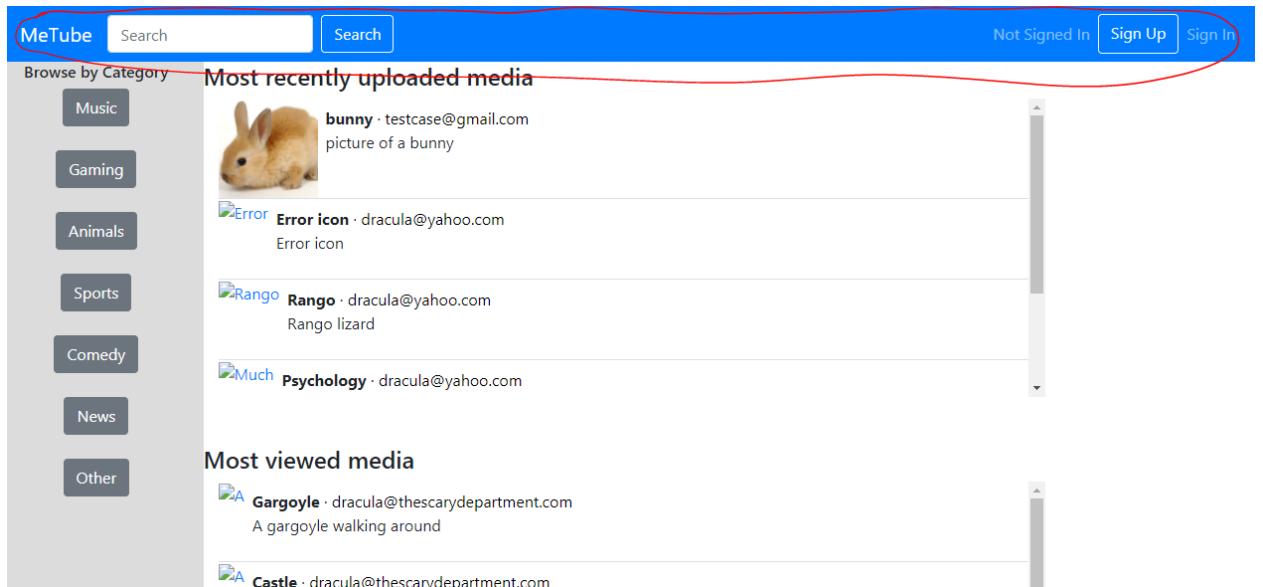
Search results for 'music and dogs':

No media found.

User Manual

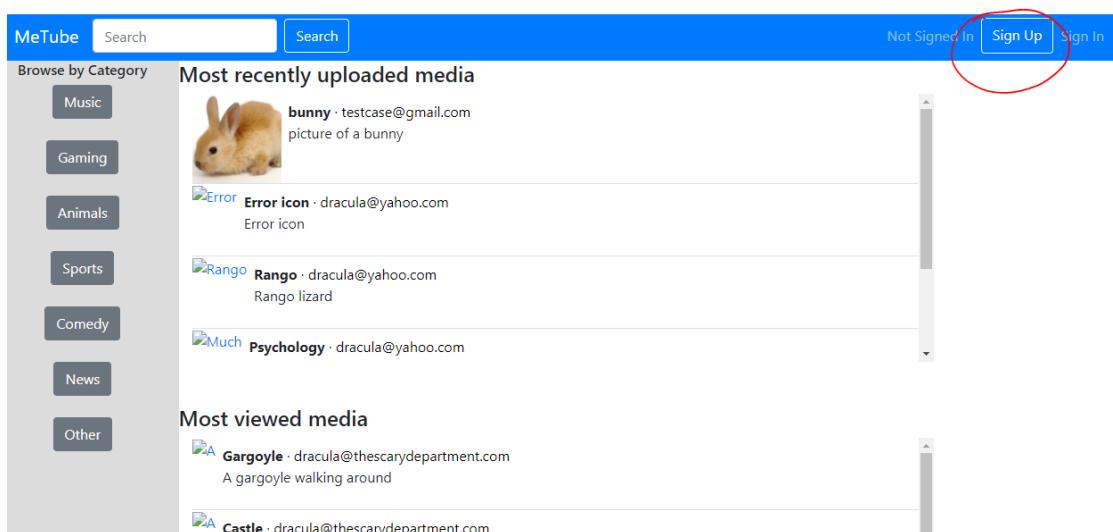
- Navigating:

Users can navigate MeTube by using the navigation bar located at the top of the screen. Users can click the “MeTube” button on the left hand side to redirect to the homepage. Other features on the navigation bar allow users to search, sign up, and sign in. When users are signed in, the navigation bar allows them to redirect to their user profile or sign out.



- Registering:

Users can register an account on MeTube by clicking the “Sign Up” button located on the ride side of the navigation bar.



Users will be redirected to a registration page, where they can enter an email, first and last name, and a password. Users must enter a valid email address and confirm their password to register.

Register

Email:

First Name: Last Name:

Password:

Confirm Password:

- Signing in:

Pre-registered users can sign in to their MeTube account by clicking on the “Sign In” button on the right hand side of the navigation bar.

The image shows the MeTube homepage. At the top, there is a blue header bar with the 'MeTube' logo, a search bar, and a 'Search' button. To the right of the search bar, it says 'Not Signed In' and has 'Sign Up' and 'Sign In' buttons, with 'Sign In' being circled in red. Below the header, there is a sidebar titled 'Browse by Category' with buttons for Music, Gaming, Animals, Sports, Comedy, News, and Other. The main content area displays two sections: 'Most recently uploaded media' and 'Most viewed media'. The 'Most recently uploaded media' section shows a thumbnail of a bunny, the title 'bunny', the uploader 'testcase@gmail.com', and the description 'picture of a bunny'. The 'Most viewed media' section shows thumbnails for 'Gargoyle' and 'Castle', both uploaded by 'dracula@yahoo.com'.

Users will be redirected to a sign in page, where they are prompted to enter the email associated with their account and the corresponding password. Users can sign in upon entering the correct information for their account.

Sign In

Email:

Password:

Sign In

- **Signing out:**

Signed in users can sign out of their account by clicking on the “Sign Out” button on the right hand side of the navigation bar.

The screenshot shows the MeTube homepage. At the top, there is a blue header bar with the text "MeTube" and a search bar. On the right side of the header, it shows the email "testcase@gmail.com" and a "Sign Out" link, which is circled in red. Below the header, there is a sidebar titled "Browse by Category" with buttons for Music, Gaming, Animals, Sports, Comedy, News, and Other. The main content area is titled "Subscriptions" and shows three media items uploaded by "cierra@gmail.com": "clemson football" (a photo of a football player), "clemson" (a photo of a person), and "breaking news" (a graphic with the word "BREAKIN" and "NEWS"). Below this, there is a section titled "Most recently uploaded media" featuring a photo of a bunny labeled "bunny". At the bottom of the page, there is an error message: "Error icon · dracula@yahoo.com · Error icon".

- **Homepage:**

On the homepage, users can view the newest media in the “Most recently uploaded media” section and the most popular media in the “Most viewed media”. On the left panel, users can browse media by category.

MeTube Search Search

Not Signed In Sign Up Sign In

Browse by Category

- [Music](#)
- [Gaming](#)
- [Animals](#)
- [Sports](#)
- [Comedy](#)
- [News](#)
- [Other](#)

Most recently uploaded media

	bunny · testcase@gmail.com picture of a bunny
	Error icon · dracula@yahoo.com Error icon
	Rango · dracula@yahoo.com Rango lizard
	Psychology · dracula@yahoo.com

Most viewed media

	Gargoyle · dracula@thescarydepartment.com A gargoyle walking around
	Castle · dracula@thescarydepartment.com

Signed in users can also view media from the accounts they are subscribed to in the “Subscriptions” section of the homepage.

MeTube Search Search

testcase@gmail.com Sign Out

Browse by Category

- [Music](#)
- [Gaming](#)
- [Animals](#)
- [Sports](#)
- [Comedy](#)
- [News](#)
- [Other](#)

Subscriptions

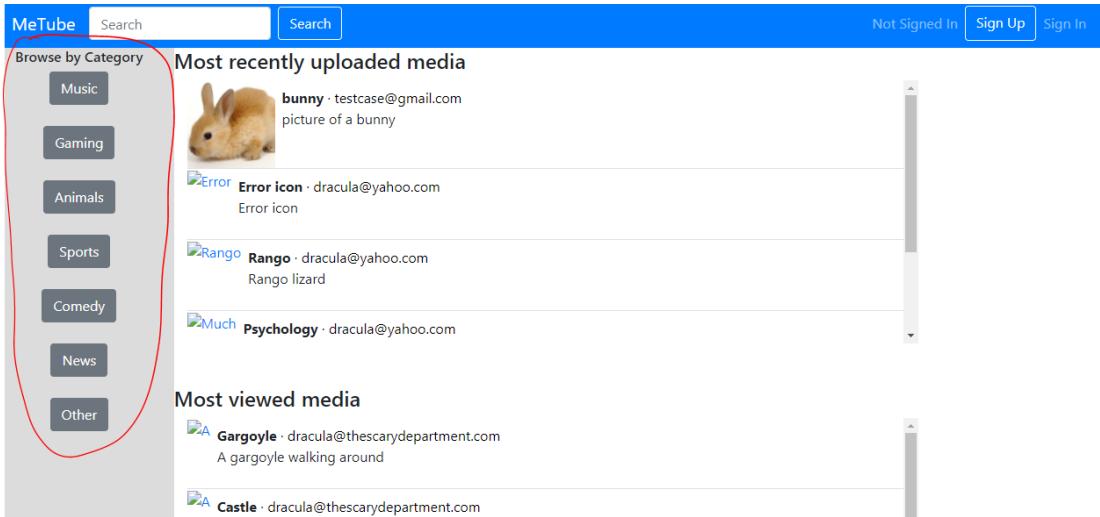
	cierra@gmail.com uploaded: clemson football clemson
	cierra@gmail.com uploaded: breaking news this just in
	cierra@gmail.com uploaded: THE ONLY ONE AROUND IT mv first meme

Most recently uploaded media

	bunny · testcase@gmail.com picture of a bunny
	Error icon · dracula@yahoo.com Error icon

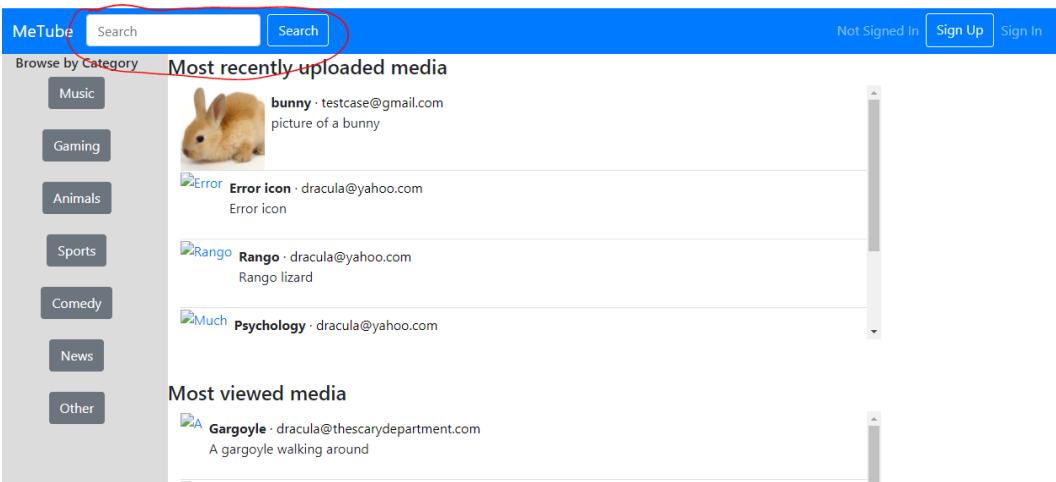
- Browsing:

On the left panel on the homepage, users can browse media by category. By clicking on one of the category buttons, users can view media related to the category of their choosing.



- Searching:

Users can use the search bar on the navigation bar to search for content based on keywords.



- Viewing Media:

Users can view by clicking on the thumbnail of the media file.

The screenshot shows the MeTube homepage. On the left, there's a sidebar titled "Browse by Category" with buttons for Music, Gaming, Animals, Sports, Comedy, News, and Other. The main area is titled "Subscriptions" and lists three items from "cierra@gmail.com": a video titled "clemson football" (with a thumbnail circled in red), a video titled "breaking news" (with a thumbnail of a news logo), and a video titled "mv first meme" (with a thumbnail of a cartoon character). Below this is a section titled "Most recently uploaded media" featuring a video titled "picture of a bunny" (with a thumbnail of a brown rabbit).

Once in the media view, all users can view the media file, the title, uploader ID, description, keywords, category, comments, and the number of views.

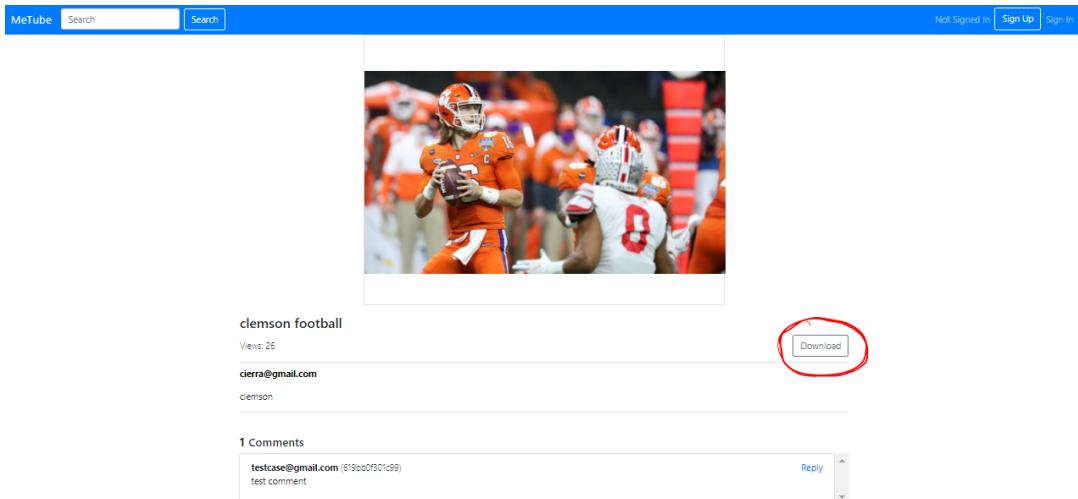
This screenshot shows a detailed view of a media file. At the top, it says "Not Signed In" and has "Sign Up" and "Sign In" buttons. The main content area shows a video thumbnail of a Clemson football player. Below the thumbnail, the title is "clemson football", the uploader is "cierra@gmail.com", and the category is "sports". It also lists "Views: 39" and "Keywords: clemson, football, sports, tigers". A "Download" button is visible. Below this, there's a "Comments" section with one comment from "testcase@gmail.com" (619bb0f301c99) saying "test comment". There are "Reply" and "Edit" buttons next to the comment.

Signed in users can also favorite media, add media to a playlist, and comment.

This screenshot shows the same media file view as above, but for a signed-in user. The "Download" and "Favorited" buttons are highlighted with orange outlines. Below the media details, there's a "playlist1" dropdown and an "Add to playlist" button. The "Comments" section is identical to the previous screenshot. At the bottom, there's a "Leave a comment." input field and a "Comment" button.

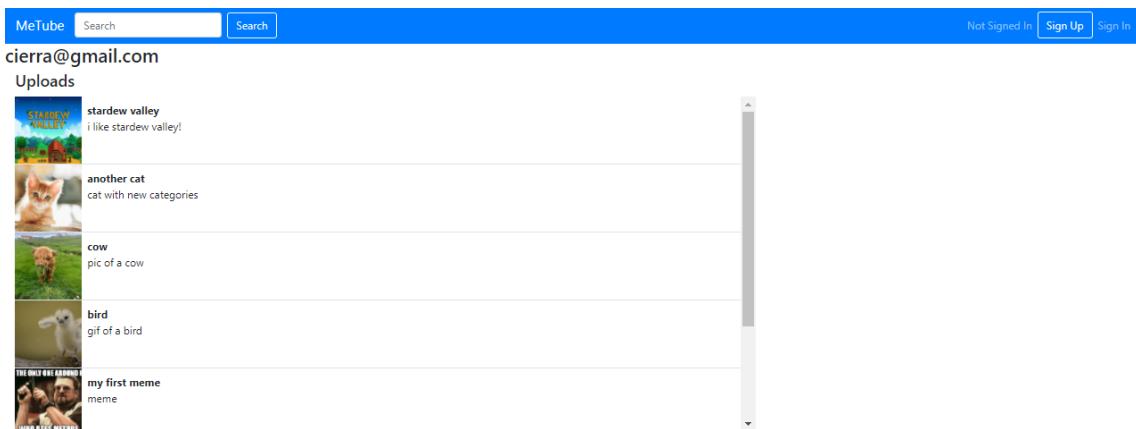
- Downloads:

Users can download media by clicking the “Download” button when viewing the media file.



- Channels:

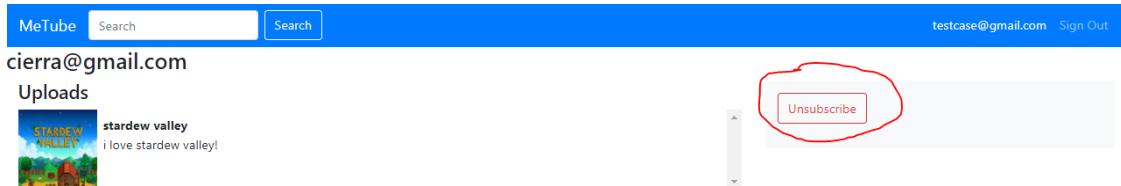
MeTube media is organized on channels. You can navigate to a channel by clicking on an uploader ID. When viewing another user's channel, you can view all of the content uploaded by them.



Signed in users can also subscribe to the channel.

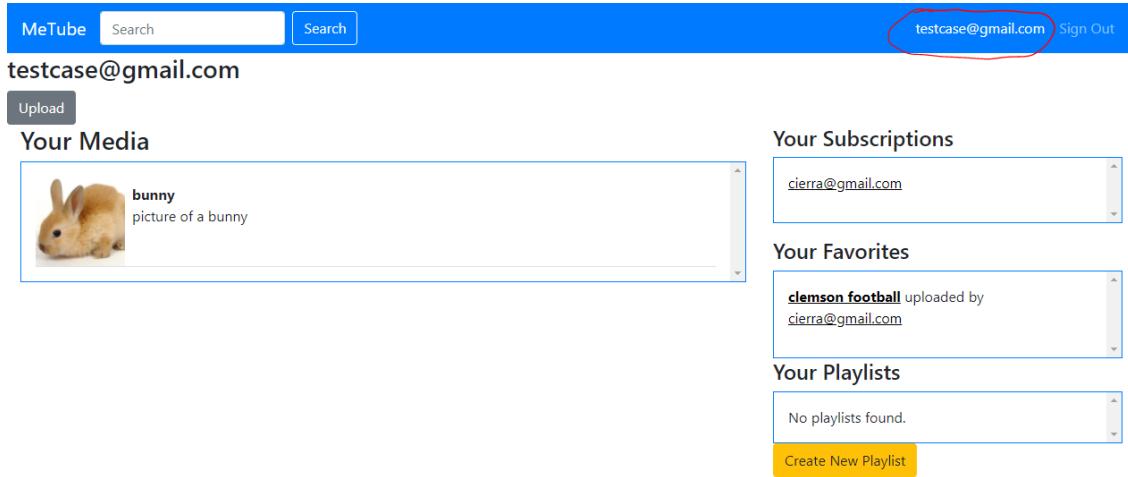


Once you subscribe to a channel, you can unsubscribe by clicking on the “unsubscribe” button.



- User Profile:

When users log into their MeTube account, they will be directed to their user profile. Users can also navigate to their profile by clicking on their ID on the navigation bar. On their profile, users can find the media they uploaded, their subscriptions, favorites, and playlists. Users can also update their account, view and add contacts, and message users from their profile.



- Updating Profile:

Users can update their profile by clicking on the “ProfileUpdate” button on their profile.

The screenshot shows a user profile page for 'testcase@gmail.com'. At the top, there's a search bar and a 'Sign Out' link. Below the header, the email 'testcase@gmail.com' is displayed. A large 'Upload' button is visible. The main area is titled 'Your Media' and contains a thumbnail for a file named 'bunny' with the description 'picture of a bunny'. To the right, sections for 'Your Subscriptions' (listing 'cierra@gmail.com'), 'Your Favorites' (listing 'clemson_football uploaded by cierra@gmail.com'), and 'Your Playlists' (showing 'No playlists found.') are present. A 'Create New Playlist' button is at the bottom of the playlists section. On the left, a sidebar has a 'Profile update' heading with a 'ProfileUpdate' button circled in red.

Users will be redirected to an update page. To verify themselves, users must confirm their email and password to update their profile. Users can change their first name, last name, or their password.

The screenshot shows the 'Profile Update' page. At the top, there's a search bar and a 'Sign Out' link. The main form has fields for 'Confirm Email' and 'Confirm Password'. Below these are fields for 'Change First Name' and 'Change Last Name', each with a separate input field. There's also a 'Change Password' field and a 'Confirm Changed Password' field. At the bottom is a blue 'Update' button.

- Uploading:

Users can upload media by clicking on the “Upload” button on their profile. Only signed in users may upload media.

The screenshot shows the MeTube user profile interface. At the top, there is a blue header bar with the 'MeTube' logo, a search bar, and a sign-out link for 'testcase@gmail.com'. Below the header, the user's email address 'testcase@gmail.com' is displayed. A red circle highlights the 'Upload' button in the 'Your Media' section. The 'Your Media' section contains a thumbnail of a bunny with the caption 'bunny picture of a bunny'. To the right, there are sections for 'Your Subscriptions' (listing 'cierra@gmail.com'), 'Your Favorites' (listing 'clemson football uploaded by cierra@gmail.com'), and 'Your Playlists' (showing 'No playlists found.' and a 'Create New Playlist' button).

Users will be redirected to an upload page, where they are prompted to enter information about their content. Users may specify a title, comma-separated keywords, a category, and description. Users can upload one image, video, or audio file at a time.

The screenshot shows the 'Upload' page. The page has a blue header bar with the 'MeTube' logo, a search bar, and a sign-out link for 'testcase@gmail.com'. The main area is titled 'Upload' and contains the following fields:

- Title:** An input field for entering the title of the content.
- Keywords:** An input field for entering comma-separated keywords.
- Category:** A dropdown menu with options: Music, Gaming, Animals, Sports, Comedy, News, and Other. The 'Other' option is selected.
- Description:** A text area for entering a description of the content.
- File:** A file input field with a 'Choose File' button and a placeholder 'No file chosen'.
- Upload:** A blue 'Upload' button at the bottom of the form.

- Playlists:

Users can view a list of their playlists on their profile. They can view an individual playlist and its contents by clicking on the playlist name. They can create a new playlist by clicking on the "Create New Playlist" button. New playlists will be named "New Playlist" by default.

The screenshot shows the MeTube user profile interface. At the top, there's a search bar and a sign-out link. Below the search bar, the user's email is displayed. There are sections for 'Your Media' (listing a file named 'bunny'), 'Your Subscriptions' (listing 'cierra@gmail.com'), 'Your Favorites' (listing 'clemson football uploaded by cierra@gmail.com'), and 'Your Playlists'. A red circle highlights the 'Your Playlists' section, which contains a single playlist named 'playlist1' and a 'Create New Playlist' button.

When viewing a playlist, users can rename the playlist, delete the playlist, or remove its contents.

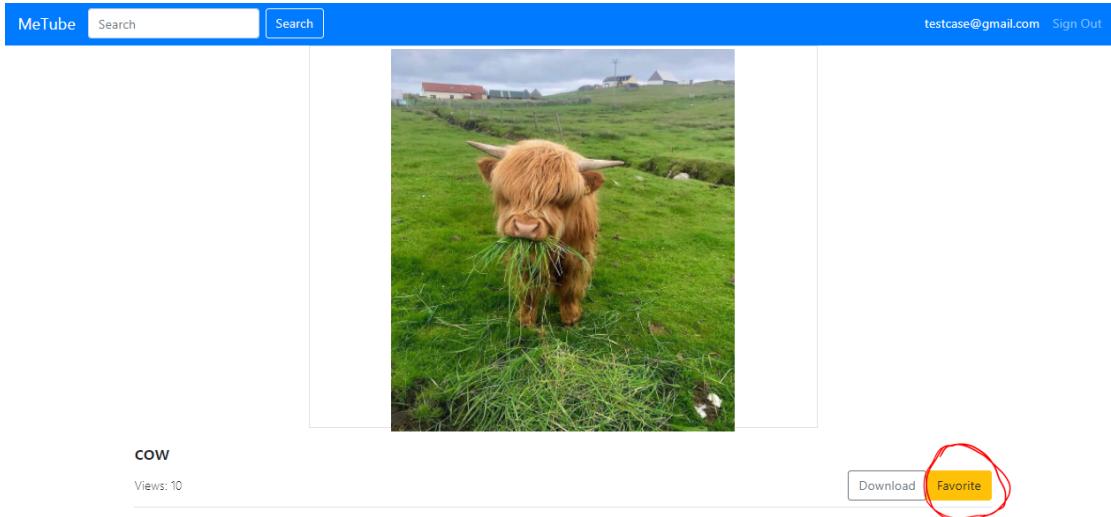
The screenshot shows the 'Edit Playlist' page for 'playlist1'. It features a search bar, a text input field containing 'playlist1', and two buttons: 'Save Name' and 'Delete Playlist'. Below this, it shows a media item ('bunny') with options to 'Remove' it from the playlist. A blue link labeled 'Back' is at the bottom.

When viewing a piece of media, signed in users can add it to a playlist. Users can select the playlist name they wish to add to and click the “Add to playlist” button.

The screenshot shows the media detail page for a file named 'bunny'. It includes a large thumbnail image of a rabbit, basic metadata (Views: 3), and download/favorite buttons. At the bottom, there's a dropdown menu for selecting a playlist and a red-highlighted 'Add to playlist' button. A red circle also highlights the 'Add to playlist' button itself.

- Favorites:

Signed in users can keep track of media they like most by favoriting. When viewing a media file, users can add it to their favorites by clicking the “Favorite” button.



Users can view all of the media they favorited in their favorite lists on their profile.

The screenshot shows a user profile page. At the top, there's a blue header bar with the text "MeTube" and two search input fields. On the right side of the header, it says " testcase@gmail.com Sign Out". Below the header, the email "testcase@gmail.com" is displayed. There are three main sections on the page: "Your Media" (which shows a thumbnail of a bunny with the caption "bunny picture of a bunny"), "Your Subscriptions" (which shows a list containing "cierra@gmail.com"), and "Your Favorites" (which shows a list containing "cow uploaded by cierra@gmail.com" and "clemson football uploaded by cierra@gmail.com"). Below these sections is "Your Playlists" (which shows a list containing "playlist1" and a "Create New Playlist" button). A red circle highlights the "Your Favorites" section.

Profile update

- **Contacts:**

Signed in users can view, add, and remove contacts by clicking on the “Contacts” button on their profile.

The screenshot shows the MeTube user profile interface. At the top, there's a navigation bar with 'MeTube' and search fields. The main area includes sections for 'Your Media' (with a thumbnail of a bunny), 'Your Subscriptions' (listing 'cierra@gmail.com'), 'Your Favorites' (listing 'cow' and 'clemson football'), 'Your Playlists' (listing 'playlist1'), and 'Profile update' (with a 'ProfileUpdate' button). On the left, there's a 'Contacts' section with a 'Contacts' button.

Users will be redirected to the contacts page. Here, users can view the list of their contacts in the “Your Contacts” section. They can add or remove contacts by entering a registered user ID.

This screenshot shows the 'Your Contacts' management page. It features input fields for 'Add Contact ID:' and 'Remove Contact ID:', both with placeholder text boxes. A blue 'Add' button is located below the remove field. Below this, the 'Your Contacts:' section lists 'cierra@gmail.com'.

- **Messaging:**

Signed in users can message their contacts by clicking the “messaging” button on their profile.

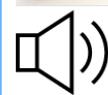
testcase@gmail.com

Upload

Your Media



bunny
picture of a bunny



happy birthday song
this is an audio file

Your Subscriptions

cierra@gmail.com

Your Favorites

cow uploaded by cierra@gmail.com

clemson football uploaded by cierra@ci

Your Playlists

playlist1

Create New Playlist

Profile update

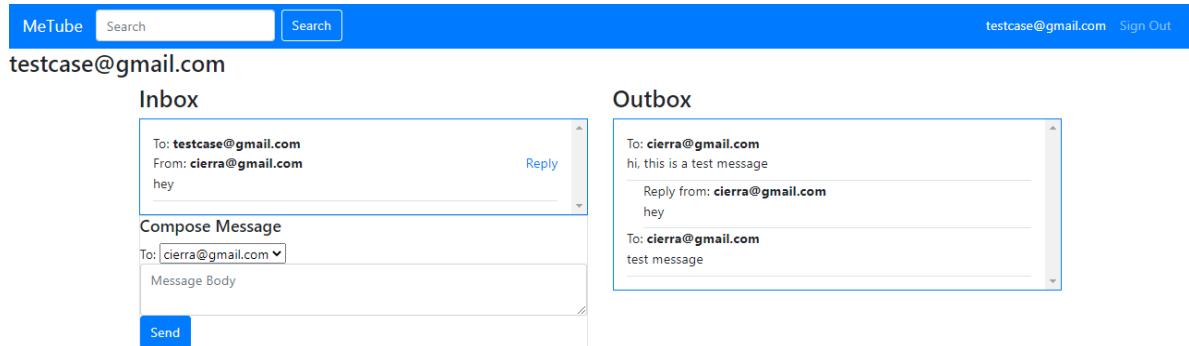
ProfileUpdate

Contacts

Contacts

Messaging

Users will be redirected to the messaging page where they can view and send messages. Messages that users receive will be in the inbox, and messages that users send will be in the outbox.



The screenshot shows the MeTube messaging interface. At the top, there is a blue header bar with the text "MeTube", a search bar, and a "Search" button. On the right side of the header, it shows the email address "testcase@gmail.com" and a "Sign Out" link. Below the header, the main content area has a left sidebar with the title "Inbox". In the inbox, there is one message from "cierra@gmail.com" with the subject "hey". Below the inbox, there is a "Compose Message" section with a recipient dropdown set to "cierra@gmail.com" and a message body field containing "Message Body". A "Send" button is at the bottom of this section. To the right of the inbox, there is a title "Outbox". In the outbox, there is one message sent to "cierra@gmail.com" with the subject "hey", containing the message "hi, this is a test message". Below the outbox, there is another message listed with the recipient "cierra@gmail.com" and the subject "test message".

Users can send messages by selecting a recipient from their contacts and writing a message in the “Compose Message” section. Users can also reply to messages in their inbox.

testcase@gmail.com

Inbox

To: **testcase@gmail.com**

From: **cierra@gmail.com**

[Reply](#)

hey

Compose Message

To:

hi cierra



[Send](#)