

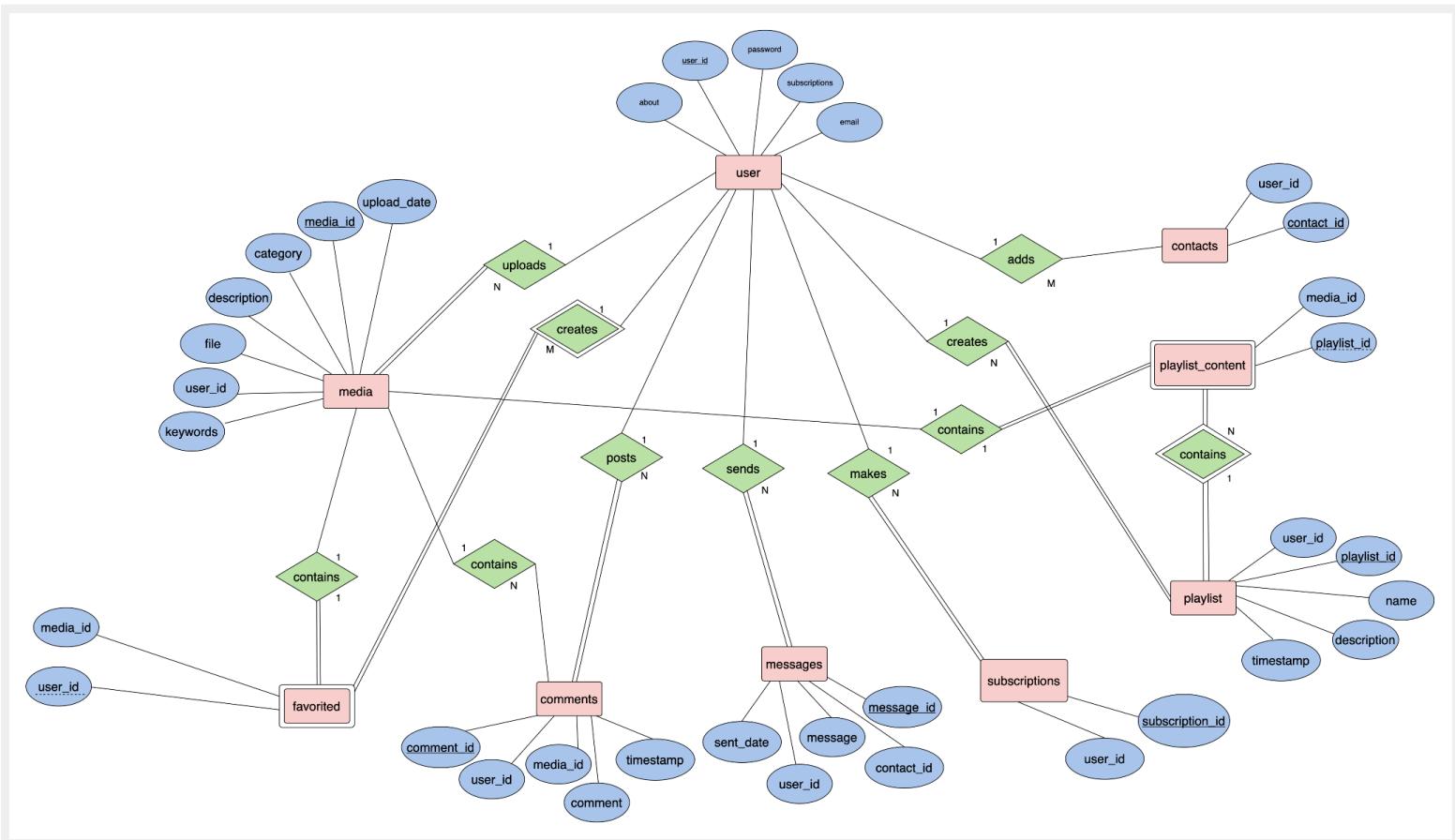
MeTube Report
CPSC 4620
Ryan Mahon, Julio Reyes, Benjamin Sleeper

Project Link: <http://webapp.computing.clemson.edu/~jcreyes/metube/login.php>

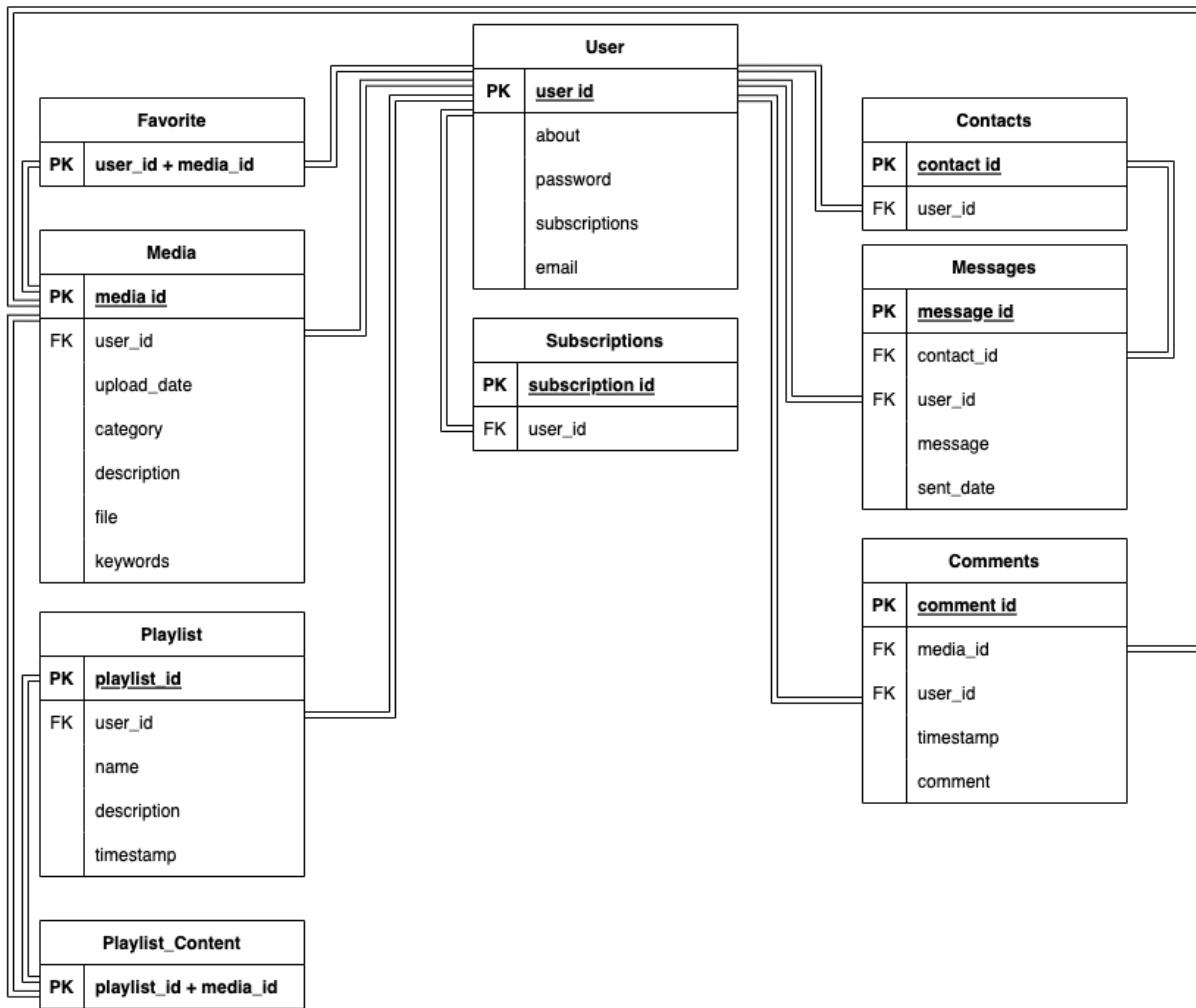
The purpose of this project is to develop a website similar to YouTube, called MeTube. Users on MeTube can create their own accounts in order to access different features of the site, such as subscribing to channels, creating playlists, and messaging other users. Users can also browse videos on the site without needing to create an account.

In order to create this project, we used a variety of languages such as HTML, PHP, MySQL, and CSS. We also used Bootstrap, an open-source CSS framework that helped with the styling of the website. The planning stages of the project involved identifying the attributes of our site that would need to be created using our database. We represented these attributes and the relationships between them through the use of an Entity-Relationship diagram, and a Database Schema.

Entity Relationship Diagram



Database Schema

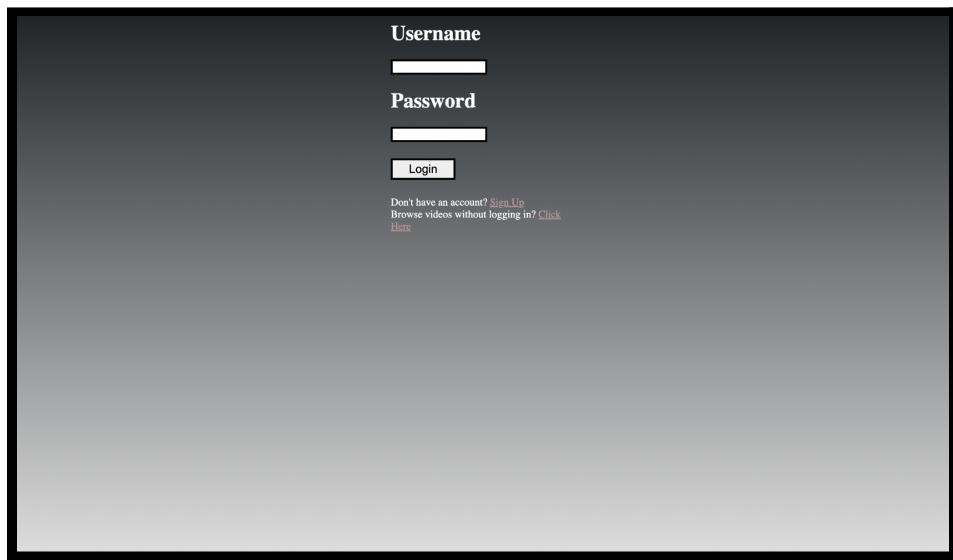


Function Design

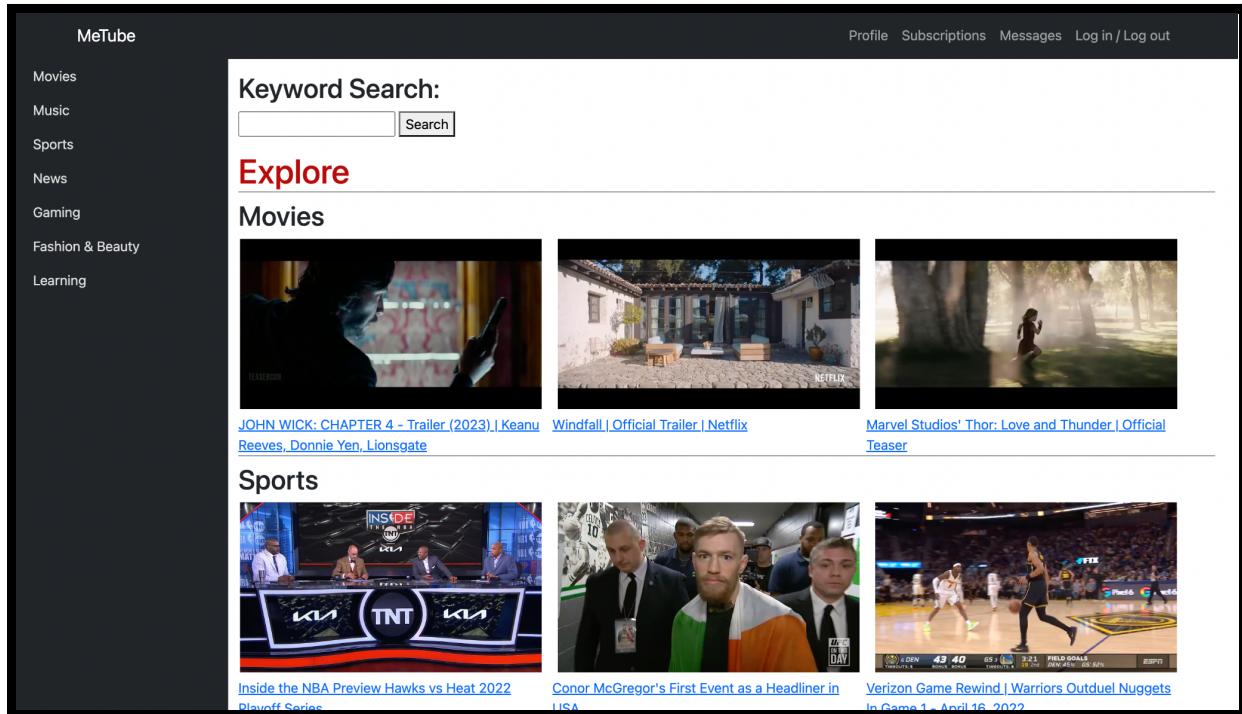
The MeTube web application is a social platform where users can upload media, watch videos, make comments, and much more. Users can either create an account or view videos as a guest. Both logged in users as well as guests have access to browsing and watching videos but only logged in users can comment on videos, favorite videos, and make playlists. Logged in users can also have contacts and send messages. The messaging page contains an inbox and an outbox displaying all messages you have received from other users as well as all the messages you have sent to other users. Logged in users can also create as many playlists as they would like. They can name the playlist, give it a description, and then add whatever videos they want.

Implementation

Upon accessing the website, users will first be shown a login page, where they can choose to sign in, create an account, or browse the site without signing up.



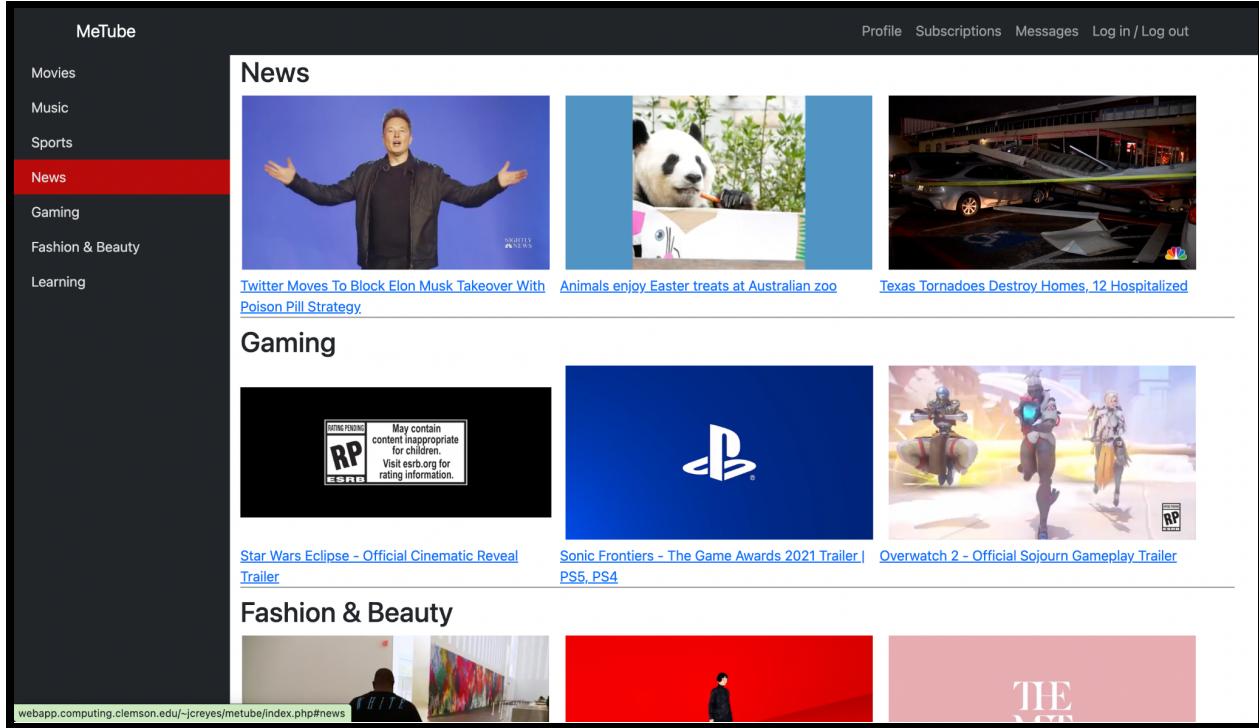
Once logged in, the user will be directed to the main homepage, where they can see the videos available on the site separated into categories. A search function is available at the top of the page, allowing users to search for videos according to their category.



To test this, we can see that entering a search for “fashion” will take the user to a page displaying the videos that exist for this category.

The screenshot shows the search results for "fashion" on the MeTube platform. At the top, there's a "Keyword Search:" input field containing "fashion" and a "Search" button. Below the search bar, the text "Videos about: fashion" is displayed. A "MeTube Home" link is visible. The main content area shows three video thumbnails from "THE MET": a man walking in a gallery, a person standing on a red carpet, and the "THE MET" logo. Each thumbnail has a play button and a progress bar indicating the video length.

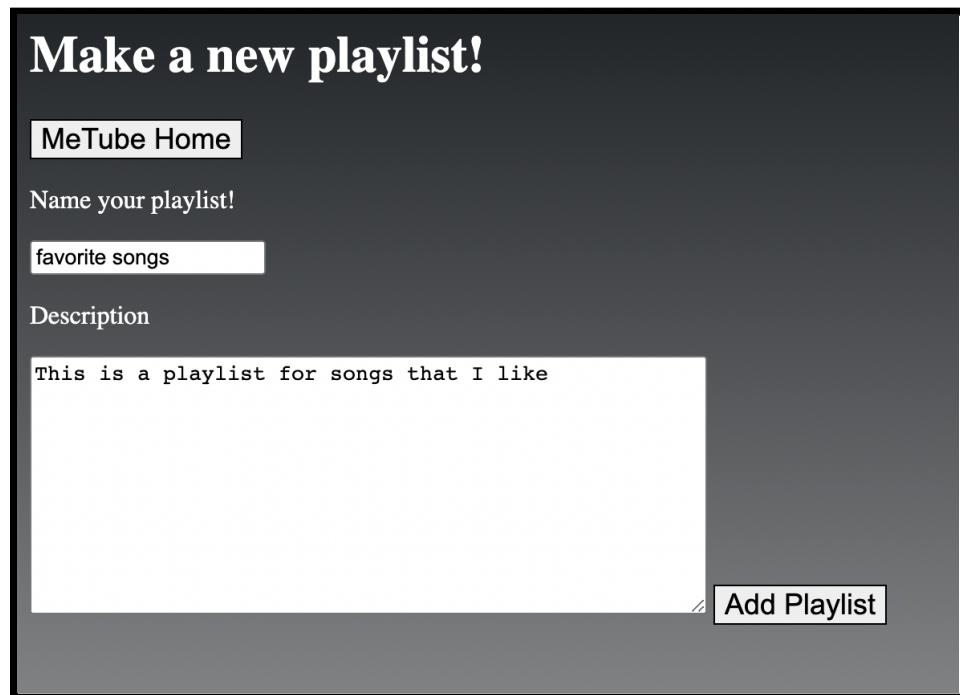
A user can also click the categories to the left of the website to quickly navigate to the different videos on the page. To test this, we can see that clicking the “news” category to the left will direct us to the section of the page where that category exists.



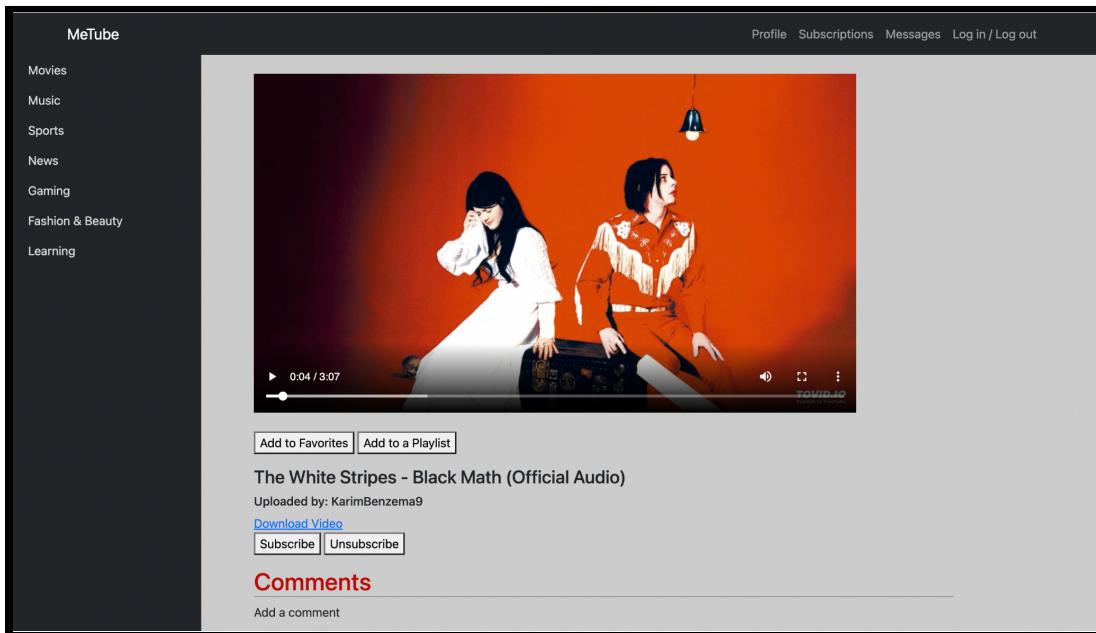
At the very top of the page is the navigation bar, which the user can use to quickly access different features of the website. The “profile” button allows users to view their bio, see who they are subscribed to, add contacts, access their messages, upload their own media, and view their favorite videos

The screenshot shows the MeTube profile page for "jcreyes". The top navigation bar includes links for Edit Profile, Messages, and MeTube Home. The main content area is divided into several sections: "Bio" (with a text box containing "This is Julio Reyes' meTube account"), "Subscribed To:" (with a text box containing "KarimBenzema9"), "Contacts" (with a link to "Add Contact"), "Uploads" (with a "Upload Video" button), "Playlists" (with a "Add Playlist" button), and "Favorites" (with a link to "JOHN WICK: CHAPTER 4 - Trailer (2023) | Keanu Reeves, Donnie Yen, Lionsgate Marvel Studios' Thor: Love and Thunder | Official Teaser").

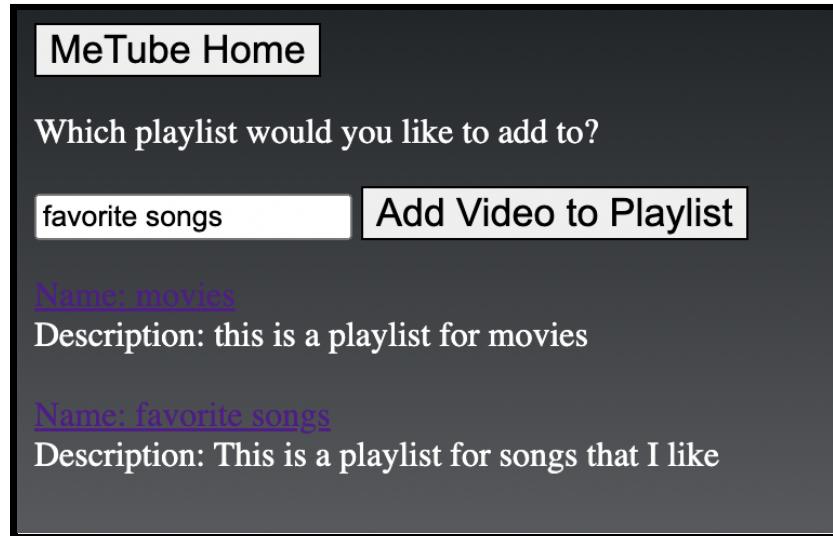
The “Add playlist” button allows users to create their own playlists that they can later add videos to. We can test this by creating a playlist for “favorite songs”.



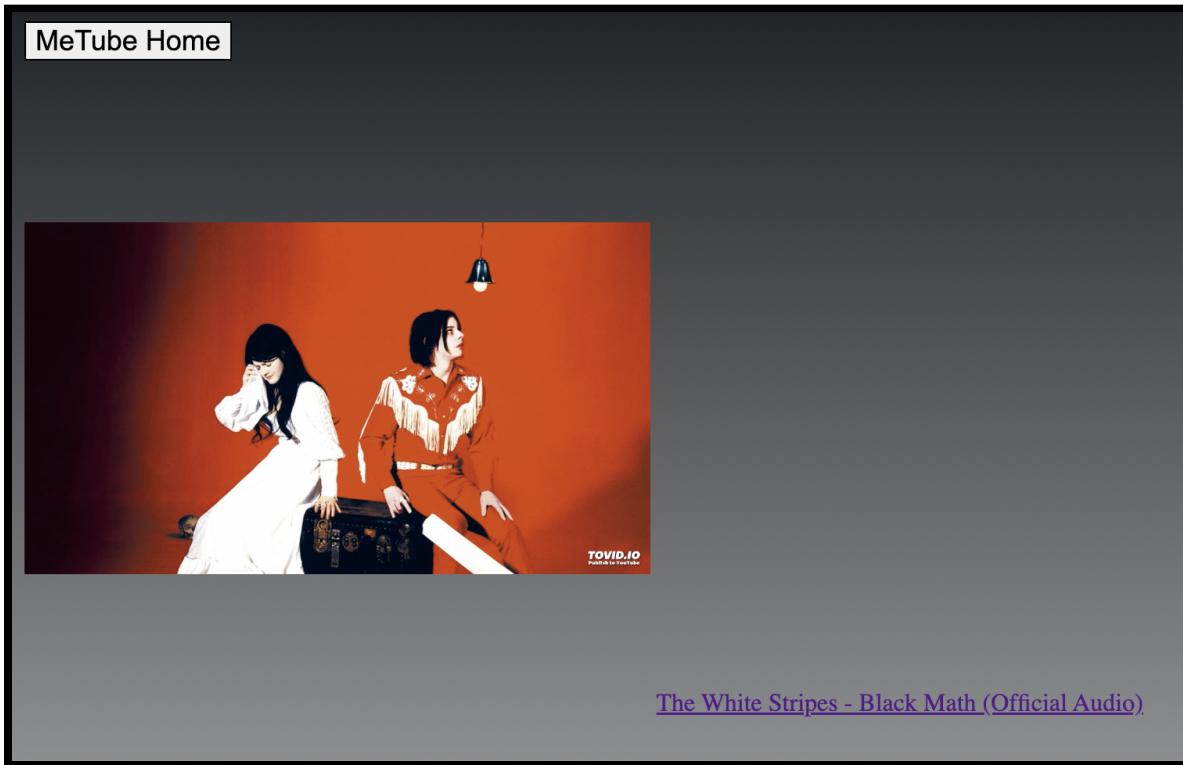
After creating our playlist, we can go to a specific video on the website and add it.



Now that we are viewing a specific video, we can use the “Add to a Playlist” button to add this to our favorite songs list.



After adding our video, we can go back to our profile and see that it has been successfully placed into the specified playlist.



The profile section also allows users to message others in their contact list. Clicking the “Messages” button will take the user to their own inbox, where they can view messages they’ve received and send out their own.

The screenshot shows the MeTube Home interface. At the top left is a "MeTube Home" button. Below it are two main sections: "Inbox" on the left and "Sent Messages" on the right. The "Inbox" section contains three messages:

- From: rpm
Sent: 2022-04-16 17:11:41
Sending a test message to jcreyes
- From: jcreyes
Sent: 2022-04-16 18:33:29
sending to this account
- From: jcreyes
Sent: 2022-04-16 18:33:37
again

The "Sent Messages" section contains four messages:

- To: rpm
Sent: 2022-04-16 17:23:26
Sending a test message to rpm
- To: cpulistic1
Sent: 2022-04-16 18:28:37
test - sending a message to cpulistic1
- To: cpulistic1
Sent: 2022-04-16 18:29:21
test - sending a message to cpulistic1
- To: rpm
Sent: 2022-04-16 18:30:00
seeing what happens if I send enough messages to overflow the div the shows the sent messages

At the bottom left is a "Send a Message" button. Below it are fields for "Send To:" (containing "McLovin") and "Message:" (containing "Hey isn't this website amazing???"). A "Send Message" button is at the bottom.

We can test this by trying to send a message to another user. After specifying the user we wish to send a message to, the text will be received inside the user’s inbox, and can be seen inside of the “sent messages” section as well.

The screenshot shows the "Send a Message" interface. At the top left is a "Send a Message" button. Below it are fields for "Send To:" (containing "McLovin") and "Message:" (containing "Hey isn't this website amazing???"). A "Send Message" button is at the bottom.

User Manual

As a MeTube visitor

- 1.) You may bypass the log in screen by clicking the browse now option
- 2.) You have full access to viewing all media on the homepage
- 3.) You have full access to the keyword search
- 4.) You are NOT able to comment/favorite/add to playlist, for any videos
- 5.) You are NOT able to subscribe or unsubscribe to any user
- 6.) Clicking on the Profile/Messages/Subs/log in /out, buttons will bring you to the Log In page

As a MeTube user

- 1.) You may access all media
- 2.) You may comment/favorite/add to playlist, on all videos
- 3.) You may subscribe and unsubscribe to any user
- 4.) You may use the keyword search
- 5.) You have access to a profile page where you can,
 - a.) Update your account info (bio, password)
 - b.) Send messages
 - c.) Add or remove contacts
 - d.) View videos you have uploaded
 - e.) View playlists
 - f.) View favorited videos