

Metube System Report

Team G13

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1. Introduction of Metube System

1.1 Overview

Metube Project is to build a database-driven media-file sharing website similar to Youtube. But unlike YouTube system in which video is the only media type hosted, the content of MeTube system includes graphics objects, video, audio, images, and animation clips.

1.2 Requirement

1.2.1 User Account

Basic functions:

1. A user can register for an account to use the Metube system.
2. Password needs to be confirmed during registration. If you use email to register, the email format needs to be checked during the registration.
3. A user can sign-in and update his/her personal profile, such as changing the password and other personal information.
4. After logging in, a user can log out at any time.

Advance functions:

5. A user has a contact list. A friend list and can manage these lists.
6. A contact list is a list of users who you can contact with. You can add users to your contact list or remove users from this list.
7. A friend list is a part of the contact list. Some users might be in your contact list, but these users are not in your friends list because they are not your friends. You can add users to your friends list or remove users from your friends list.
8. You can block some users so as to prevent them from adding you to their friends/contact lists. You can also remove the block.

1.2.2 Data Sharing

Basic functions:

1. A signed-in user should be able to upload multimedia files into the Metube system. During uploading, the user should be able to input the meta-information about the multimedia file, including the title and description of the media file, and keywords used for searching the media file.
2. Any Internet user should be able to download and view media files available in Metube system through a media player embedded in the web interface.

Advance functions:

3. Sharing media files: a user can specify how to share the media file with others (for instance, share with everybody or just friends, allow discussion or not, allow rating or not, etc.)
4. Blocking user: a user can block other users from viewing/downloading the media files he/she uploaded. A user can also remove the block.

1.2.3 Media Organization

Basic functions:

1. All users should be able to browse the media files by categories. Signed-in users should be able to organize their uploaded media files and their interested media files in different ways, including channel, playlists, favorite lists.

2. All media files uploaded by a user are organized into a broadcasting channel that other users can subscribe to. A user can subscribe to any channel created by another user or cancel a subscription.
3. Users can also organize media files they viewed into playlists. A user can create many playlists. He can add medias to the playlist and remove medias from the playlists.
4. A user can create a favorite list of media files. He/she can add his/her favorite medias to the favorite lists and remove medias from the favorite lists.

Advance functions:

5. Show the most-viewed media files: ranking the medias by the number of times viewed by users.
6. Show the most-recently uploaded files: ranking the medias by the upload date.

1.2.4 User Interaction

Basic functions:

1. Send message: a registered user can send messages to other users and receive messages from others users.
2. Comment: a user can comment a media file if the user who uploaded the media file enabled the discussion option for the media file. He/she can also remove the comment he/she made before.

Advance functions:

3. Media rating: a user can rate the media file he/she viewed by giving a score.
4. Group discussion: a user can build a group and join in a group for making discussions. Once a user joins a group, he/she can start a discussion topic or post comments on a discussion topic.

1.2.5 Search

Basic function:

1. Keyword-based search: a user can search the media file by keyword.

Advanced functions:

2. Word cloud: there is a word cloud to show the keywords of the media files in the system.
3. Media recommendation: when a user selects a media file to view, links to other related media files should be provided.
4. Feature-based media search: a user can search the media through other features, such as media category, file size, upload date, etc.

1.3 Introduction of Database

Database Schema and ER Diagram are shown in Appendix I.

1.4 Introduction of Functions

Media files that are supported by Metube System include video, audio and image.

Video Type: ‘mp4’, ‘ogg’, ‘webm’.

Audio Type: ‘mp3’.

Image Type: ‘jpg’, ‘gif’, ‘png’, ‘jpeg’.

Using the Metube System, all users that are not blocked by the upload user are able to search and view the multimedia files online through the web interface. They are also allowed to browse media files by categories. But only the logged-in users who are not blocked are able to upload, download mediums. All logged-in users can view a list of media files that they uploaded, their favorite list playlist, mediums that are shared to them, subscribed channels, and their own channels. They also can create many playlists/favorite-lists and add media files into their playlists/favorite-lists. All sign-in users are able to subscribe other users' channels. After the users view a video, they are allowed to rate the media files based on their viewing experience, and comment medial file if they are sign into the system. Sign-in users can manage their profile in the profile page. They are allowed to update their account information except for their username and email address. They also can access to their channel page through the account page. Users who are not blocked can view other user's page, which includes this user's upload, favorite list and playlists. But they are not able to modify them. What is more, logged-in users can access to the messaging system through the panel on the left navigator. And they are able to create discuss groups and join groups for discussions.

In conclusion, Metube System is a medium and user interaction system.

1.5 Development Environment

- HTML 5
- CSS 3
- PHP 5
- MySQL Server
- Apache Server
- XAMP
- MAMP
- Windows 8
- OS X Yosemite

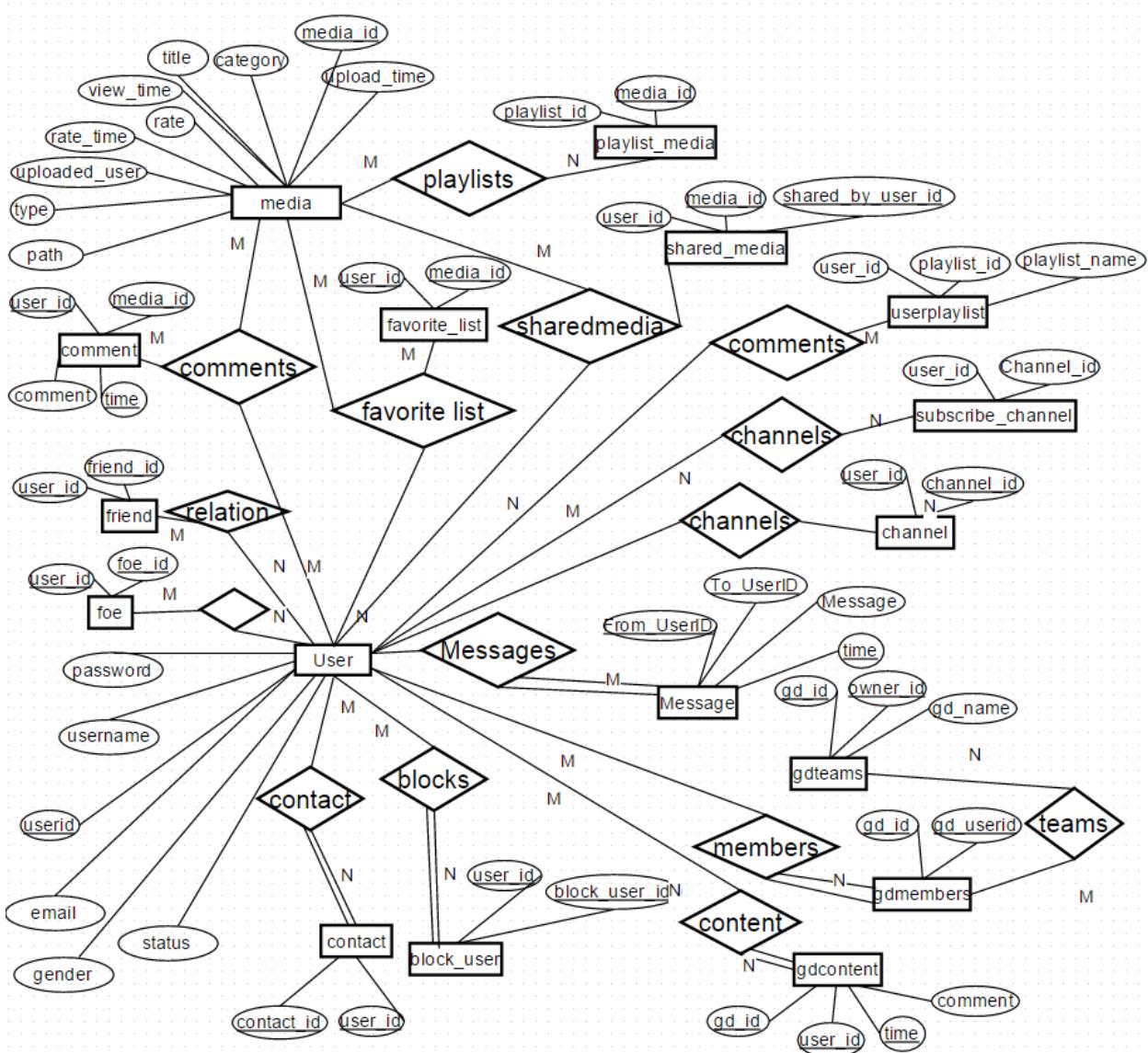
2. Metube System Design

2.1 Database Design

2.1.1 Database Schema

Database Schema is shown in Appendix I.

2.1.2 ER Diagram



2.2 Webpage Design

2.2.1 Overview

The whole website uses the main colors orange and purple to match the colors of Clemson University. The index page, which is the main page, uses a frame with a purple head title, an orange navigator on the left and an orange log in window on the right. This frame basically won't change in the whole website. In the middle lies a white background main frame. When an operation is made, the page it directs would be shown in the middle frame.

Main Page

Main Page is the 'index.php' page. CSS is used to define the components below.

'header': The purple part with the title 'Welcome to Metube!'

'nav': The orange navigator on the left

'aside': The orange log in window on the right. Here a frame is used.

'section': The main window in the middle which includes a frame.

Welcome to Metube!

Home

Most Viewed

Most Recent

Music

Movies

Sport

News

Images

Education

TV

Entertain


[sunset](#)
Upload User:[dummy](#)
Upload Time:
2015-04-15 04:00:42
Viewed Times:21
[Add to Favorite](#)
[Add to Playlist](#)
Channel:CC
[Subscribe](#)
[Share](#)

[Om Mani Padme Hum](#)
Upload User:[dummy](#)
Upload Time:
2015-04-15 04:33:24
Viewed Times:8
[Add to Favorite](#)
[Add to Playlist](#)
Channel:CC
[Subscribe](#)
[Share](#)

[finger shapes](#)
Upload User:[dummy](#)
Upload Time:
2015-04-15 22:53:47
Viewed Times:3
[Add to Favorite](#)
[Add to Playlist](#)
Channel:CC
[Subscribe](#)
[Share](#)


[butterfly](#)
Upload User:[dummy](#)
Upload Time:
2015-04-15 22:58:19
Viewed Times:8
[Add to Favorite](#)
[Add to Playlist](#)
Channel:CC
[Subscribe](#)
[Share](#)

[121106202358](#)
Upload User:[siqui](#)
Upload Time:
2015-04-16 01:43:56
Viewed Times:1
[Add to Favorite](#)
[Add to Playlist](#)
Channel:new channel
[Subscribe](#)
[Share](#)

[2.gif](#)
Upload User:[siqui](#)
Upload Time:
2015-04-16 19:04:15
Viewed Times:1
[Add to Favorite](#)
[Add to Playlist](#)
Channel:new
[Subscribe](#)
[Share](#)


[Eagle.mp4](#)
Upload User:[dummy](#)
Upload Time:
2015-04-16 23:18:55
Viewed Times:4

[Eagle.mp4](#)
Upload User:[dummy](#)
Upload Time:
2015-04-17 21:17:33
Viewed Times:1

[3.gif](#)
Upload User:[siqui](#)
Upload Time:
2015-04-17 21:30:07
Viewed Times:0

Email:

Password:

New here? [REGISTER](#)

After log in, the log in window on the right would disappear. User name and Log out Link would display on the right corner of the purple head title. And 'My Contact', 'My Page', 'Messages' would display on the left navigator. Other parts basically remain the same.

6

Welcome to Metube!

Welcome Sigi ! Log Out

		SEARCH		
Home				
Most Viewed		sunset	Om Mani Padme Hum	finger shapes
		Upload User:dummy Upload Time: 2015-04-15 04:00:42 Viewed Times:21 Add to Favorite Add to Playlist Channel:CC Subscribe Share	Upload User:dummy Upload Time: 2015-04-15 04:33:24 Viewed Times:8 Add to Favorite Add to Playlist Channel:CC Subscribe Share	Upload User:dummy Upload Time: 2015-04-15 22:53:47 Viewed Times:3 Add to Favorite Add to Playlist Channel:CC Subscribe Share
Most Recent				
Music				
Movies		butterfly	121106202358	2.gif
Sport				
News				
Images		Eagle.mp4	Eagle.mp4	3.gif
Education				
TV				
Entertain		Upload User:dummy Upload Time: 2015-04-16 23:18:55 Viewed Times:4 Add to Favorite Add to Playlist Channel: Subscribe Share	Upload User:dummy Upload Time: 2015-04-17 21:17:33 Viewed Times:1 Add to Favorite Add to Playlist Channel:new channel Subscribe Share	Upload User:sigi Upload Time: 2015-04-16 19:04:15 Viewed Times:1 Add to Favorite Add to Playlist Channel:new Subscribe Share
My Contacts				
Messages				
My Page				

2.3 Function Design

2.3.1 User Account

1) Register

- Get Username, Email, Password, repeat Password from user input.
- Check if any blank is empty.
- Check if Email is valid.
- Check if Passwords match.
- Check if Passwords is less than 6 characters.
- Check if user already exists.

2) Log In

- Check if user exists.
 - Check if user and password matches.
- 3) User Profile
- [1] Show user's profile in database.
 - [2] Update profile:
 - Get information from posted variables from the page.
 - Update it in the database
 - Get information from the database, show on the same page
 - [3] Change Password:
 - Require old password.
 - Check from database if password matches.
 - Get new password and repeat password.
 - Check if any empty blanks.
 - Check if new password is less than 6 characters.
 - Check if new passwords match.
 - Update password
- 4) Contact & User Blocking
- [1] Show user's contact
 - Select user's contact from database and show on one table. For each contact, generate a remove button and a block button.
 - Check if remove button or block button from any contact is clicked, use alert and respond to the same page
 - [2] Add contact
 - Search user based on email.
 - Check if valid.
 - Add contact. Insert to contact list in database.
- 5) Friend/Foe
- [1] Show user's contact
 - Select user's friends from database and show on one table. For each friend, generate a remove button.
 - Check if remove button from any friend is clicked, use alert and respond to the same page.
 - [2] Add friend
 - Search user based on email.
 - Check if valid.
 - Add friend. Insert to contact list in database
 - [3] Foe
 - Same as friends

2.3.2 Data Sharing

- 1) Upload:
- This I implemented to able to upload audio, video and audio files of only certain types. If the user tries to upload some different files types it will give an appropriate message to the user. This checks if the file already exists or not and its size and other details. During the upload the user needs to provide Meta data required for the file.

- See if the same name file is taken or not.
 - Check if you can upload an empty file.
 - See if the file type is matching or not.
 - See if you can upload without selecting the category.
 - See if you can upload without entering the keywords.
 - See if your uploaded file is present after you uploaded.
- 2) Download/View
- Download
- Check if the download is working.
 - Check if the downloaded media is correct.
 - Check if the downloaded media is playing correctly.
- View
- Check the media can be viewed or it is having problem in playing.
- 3) Metadata input:
- As I briefly introduced about this is in the previous point, the Meta data will be collected during the upload time. The user needs to input the keywords, whether to allow comments for it. The category into which it should be placed and other details are recorded into the database at this point.

2.3.3 Media Organization

- 1) Browse by category
- Get media files in categories movie, music, sport, news, images, education, TV, Entertain.
 - Get all the information and display under the media file.
 - For some information such as file name, share, upload user, add to favorite and add to Playlist, use links.
 - Check if the media file is image or video or audio
 - Display image and video using different tags in HTML through different pages.
 - Only videos are allowed to add to playlist.
- 2) Channel
- [1] Choose channel when uploading the file
- When uploads a file, user is required to choose a channel or create a channel first.
 - If create a channel, check if empty or valid. Then go back to choose a channel.
- [2] Show channel in user's page
- Select all channels for this user from the database.
 - For each channel name, generate a link to this channel that shows all the media files in this channel.
- [3] Subscribe to Channels
- Get logged-in user id and channel id.
 - Insert to database to subscribe to this channel.
- [4] Show Subscribe Channels

- Select all channels that are subscribed by this user from the database.
- For each channel name, generate a link to this channel that shows all the media files in this channel.
- For each channel name, create a remove button.
- Check if remove button from channel is clicked, use alert and respond to the same page.

3) Play Lists

[1] Show Playlists

- Get information from playlists for this user
- For each playlist generate a 'Play this list button'.
- Get all the media files in each list and display as a table to that list.
- For each media file, generate a link to play this single file and a remove button for this file.
- Check if remove button from media is clicked, use alert and respond to the same page.
- Check if playlist is empty after removing the media.

[2] Play Playlist

- Get playlist id and then get all the media files in this list.
- Get the total media files number in this list.
- Use an array to store the media ids in this list.
- For each media, play media in another page and check if it ends.
- When media ends, jump to the next media automatically and decrease media number by 1.
- Check if all the media files in this list are played.
- If done, alert and go back.

4) Favorite List

[1] Show Favorite Lists

- Get all the media files in the list and display as a table.
- For each media file, generate a link to play this single file and a remove button for this file.
- Check if remove button from media is clicked, use alert and respond to the same page

5) Most Viewed

- Get all the media files ordered by viewed times.
- Show all the media files the same way as that in 'Browse by category'.

6) Most recent

- Get all the media files ordered by upload times.
- Show all the media files the same way as that in 'Browse by category'.

2.3.4 User interaction

1) Comments:

If the uploaded user has blocked the media from commenting no one will be able to comment this media. If not then the comments corresponding

each media will be displayed below the media and a logged in user can share his comments.

- Check if the comments are displayed if the owner doesn't want them to display.
- Check if the old comments are being displayed for that media.
- Post the comment and submit and come back and see if you posted comment is present.

2) Media Sharing/Blocking

Logged in user can share it with his friend by clicking on the button present next to the media display. He will be able to choose a friend from his friends list for sharing a media. If a user wants to block the media that he uploaded then he can add his foe to his foe list. Then the foe will be blocked from viewing that media.

3) Media rating:

After watching the media, a logged in user will be able to rate a media. This he can do by clicking the rate button below the media. Then the media rating will be updated accordingly.

- Rate the media and see if the rating has been successful.
- Try submitting without selecting the rating options

4) Group Discussion:

A logged in user only can use this feature. For using this he needs to go to the G Discussion section. After this he can select to start a new discussion or participate in an existing one. He can even check his group discussions and will be able to post into them.

5) Messaging

Only a logged in user can message. Then the user can go to message section to use this feature. For messaging he needs to select to whom he needs to send and enter the content in the space provided and submit it. If user wants to check his inbox, he will be able to select the check messages button.

- Check this option is present if the user is not logged in.
- Try to create a new group without giving a name to it.
- Join a new group and check if you are present in it.
- Post a new message in one of your groups and see that is updated.

2.3.5 Search

1) Keyword search:

If a user wants to search the website he can do it by pressing the search button, then he will be able to see a textbox for him to search and he can enter the text and will be able to see the results if any of them exists for the text he entered.

- Try searching without any text.

2) Word cloud:

This feature is present a part of the search option. If the user wants to use this feature, need to press the search button. Then he will be able to see a cloud of words, which upon clicking will fetch the results associated with it.

- Click and see if the word give any results or through any errors.

3) Media Recommendation:

Whenever a media is being displayed, the corresponding recommended media will be displayed based on the keywords of the media and the title of the media. Now if the user wants to see the media from this list, he needs to click in the appropriate place indicated by the button.

- See if the recommended list is displayed.
- Check by clicking the links in the displayed list.

4) Feature based search:

There are three of the features that are implemented. First one being the category based, second one being the size based. In both the cases the user will be displayed appropriate options based on which he can select to obtain the results. The last one is based on the most viewed search. Based on the total view count of that media.

- Check if you can click the submit button without selecting size or category.
- Check if the category search is working correctly.

3. Test of Metube System

3.1 Test Case for User Account

Test Scenario	Test Case	Test Data	Expected Result	Actually Result
Log In and Register				
Check Register Functionality	Check leave any blank empty	Empty	Display Error	One or more blank is missing. Please try again.
	Check Entering invalid Register Email	Email: jack Email: siqi@gmail.com	Display Email invalid Display Error	Please include '@' in the email address. 'jack' is missing an '@' This Email has already registered.

				Please login or try another one. Return.
	Email: jack@gmail.com	Display Email invalid	Email invalid Try again.	
	Check Entering password less than 6 characters	Password:123	Display Error	Password must be at least 6 characters
	Check Entering password that does not match the repeat password	Password: 1234567 Repeat Password: 12345678	Display Error	Passwords don't match
	Check Entering Everything valid	Username: Jackey Email: jacky@gmail.com Password: 1234567 Repeat Password: 1234567	Register Successful	Register succeeded! Return to login.
Check Log In Functionality	Check leave any blank empty	Empty	Display Error	One or more blank is missing. Please try again.
	Check Email that doesn't exist in the database	Email: 123@gmail.com Password: 123456	Display Error	User doesn't exist. Return
	Check Email and Password that doesn't match	Email: siqi@gmail.com Password: 123456	Display Error	Password is not correct! Please try again. Return
	Check Everything valid	Email: siqi@gmail.com Password: 1234567	Log in successfully	Login
User Profile				
Check Change Password Functionality	Check Input an incorrect former password	(For Siqi) Password: 123456	Display Error	Password not match.
	Check Input a correct former password	(For Siqi) Password: 1234567	Jump successfully	Jump to 'changepw1.php'
	Check Entering new password less than 6	123	Display Error	Password must be at least 6 characters.

	characters			
	Check Entering password that does not match the repeat password	Password: 1234567 Repeat Password: 12345678	Display Error	Passwords don't match.
	Check Everything valid	Password: 12345678 Repeat Password: 12345678	Successfully Change Password	Alert: Password changed successfully.
Check Update Profile Functionality	Check Update Status	I'm ok	Change Successfully	I'm ok
	Check Update Gender	Female	Change Successfully	Female
		Male	Change Successfully	Male
Contact				
Check Add Contact Functionality	Check Email that doesn't exist in the database	Email: 123@gmail.com	Display Error	User doesn't exist.
	Check Email that exist in the block table in database	Email: jackey@gmail.com	Display Error	Sorry. You cannot add this user as your contact
	Check Email that exist in the foe table in database	Email: billgates@gmail.com	Display Error	Sorry you cannot add this user as your contact. This user is your foe.
	Check valid Email	Email: jinchel@gmail.com	Add successfully	Contact successfully added
Check Remove Contact Functionality	Check click on the remove button after one user		Remove successfully	Remove successfully
User Blocking				
Check Block Contact Functionality	Check click on the block button after one user		User Blocked. Button changes to Unblock	User Blocked. Button changes to Unblock
Friends and Foes				

Check Add foes Functionality	Check Email that exist in the friend table in database	Email: stella@gmail.com	Display Error	Sorry you cannot add this user as your foe. This user is your friend. You have to remove it from your friend list first.
	Check Email that exist in the foe table in database	Email: josh@gmail.com	Display Error	Foe already exists.
	Check Email that that is the user itself	Email: siqui@gmail.com	Display Error	You cannot add yourself as a foe
	Check Email that doesn't exist in the database	Email: john@gmail.com	Display Error	User doesn't exist.
	Check valid Email	Email: kate@qq.com	Add successfully	Foe added.
Check Add friends Functionality	Check Email that exist in the foe table in database	Email: stella@gmail.com	Display Error	Sorry you cannot add this user as your friend. This user is your foe. You have to remove it from your foe list first.
	Check Email that exist in the friend table in database	Email: joe@gmail.com	Display Error	Friend already exists.
	Check Email that exist in the block table in database	Email: jackey@gmail.com	Display Error	Sorry. You are blocked by this user.
	Check Email that that is the user itself	Email: siqui@gmail.com	Display Error	You cannot add yourself as a friend
	Check Email that doesn't exist in the database	Email: john@gmail.com	Display Error	User doesn't exist.
	Check valid Email	Email: billgates@gmail.com	Add successfully	Friend added.

Check Remove Friend Functionality	Check click on the remove button after one user		Remove successfully	Remove successfully
Check Remove Foe Functionality	Check click on the remove button after one user		Remove successfully	Remove successfully

3.2 Test Case for Data Sharing

Upload:

1. See if the same name file is taken or not.
2. Check if you can upload an empty file.
3. See if the file type is matching or not.
4. See if you can upload without selecting the category.
5. See if you can upload without entering the keywords.
6. See if your uploaded file is present after you uploaded.
7. Check if the file with that name is already present in the target location.

Download:

1. Check if the download is working.
2. Check if the downloaded media is correct.
3. Check if the downloaded media is playing correctly.

Metadata input:

1. This is part of the upload process.

View:

1. Check the media can be viewed or it is having problem in playing.

3.3 Test Case for Media Organization

Test Scenario	Test Case	Test Data	Expected Result	Actually Result
Browse by Category				
Check Music Functionality	Click on Music		Show result from music	Show result from music
Check Movies Functionality	Click on Movies		Show result from movies	Show result from movies
Check Sport Functionality	Click on Sport		Show result from sport	Show result from sport
Check News Functionality	Click on News		Show result from news	Show result from news
Check Images	Click on Images		Show result	Show result

Functionality			from images	from images
Check Education Functionality	Click on Education		Show result from education	Show result from education
Check TV Functionality	Click on TV		Show result from TV	Show result from TV
Check Entertain Functionality	Click on Entertain		Show result from Entertain	Show result from Entertain
Channel				
Check Channel Functionality	Check Subscribe	Click on the 'Subscribe' link after a channel name as a logged in user	Subscribe to this channel	Subscribe to this channel
		Click on the 'Subscribe' link after a channel name as a unlogged in user	Display Error	Sorry. You have to log in first.
		Click on the 'Subscribe' link after a channel that is already subscribed	Display Error	You have already subscribed to this channel
	Check Unsubscribe	Click on the 'Unsubscribe' link after a channel name	Unsubscribe to this channel	Unsubscribe to this channel
	Check Channel Media	Click on the link of a channel name	Show medias in this channel	Show medias in this channel
Playlists				
Check Playlist Functionality	Check Add to Playlist	Click on the 'Add to Playlist' link after a channel name as a logged in user	Jump to 'addplpro.php'	Jump to 'addplpro.php'
		Click on the 'Add to Playlist' link after a channel name as a unlogged in user	Display Error	Sorry. You have to log in first.
	Check create a new playlist	Input playlist name that already exist	Display Error	This playlist name already exists. Try another one.
		Input empty playlist name	Display Error	Play list name cannot be empty.
		Input a valid playlist name	Add media to this new list	Add media to this new list
	Check add to a	Add to a list that	Display Error	This media is

	existing list	already include this media		already in this play list.
		Add to a valid list	Add successfully	Add successfully

Favorite List

Check Favorite List Functionality	Check add to favorite	Click on the 'Add to Favorite' link after a channel name as a unlogged in user	Display Error	Sorry. You have to log in first.
		Click on the 'Add to Playlist' link after a media name that already exists in the list	Display Error	This media is already in your favorite list
		Click on the 'Add to Playlist' link after a channel name as a logged in user	Add successfully	Add successfully
	Check remove from favorite	Click on the 'Remove' button after the media name in the list	Remove successfully	Remove successfully
	Check play media in the favorite list	Click on the 'Play' button after the media name that is uploaded by foe	Display Error	You are not allowed to watch this video
		Click on the 'Play' button after the media name that is not uploaded by foe	Play successfully	Play successfully

Most Viewed

Check Most Viewed Functionality	Click on Most Viewed		Show result ordered by view times	Show result ordered by view times
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Most Recent

Check Most Recent Functionality	Click on Most Recent		Show result ordered by upload times	Show result ordered by upload times
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3.4 Test Case for User Interaction

Comments:

1. Check if the comments are displayed if the owner doesn't want them to display.
2. Check if the old comments are being displayed for that media.
3. Post the comment and submit and come back and see if you posted comment is present.

Media rating:

1. Rate the media and see if the rating has been successful.
2. Try submitting without selecting the rating options.

Group Discussion:

1. Check this option is present if the user is not logged in.
2. Try to create a new group without giving a name to it.
3. Join a new group and check if you are present in it.
4. Post a new message in one of your group and see that is updated.

3.5 Search

Keyword search:

1. Try searching without any text.

Word cloud:

1. Click and see if the word give any results or through any errors.

Media Recommendation:

1. See if the recommended list is displayed.
2. Check by clicking the links in the displayed list.

Feature based search:

1. Check if you can click the submit button without selecting size or category.
2. Check if the category search is working correctly.

4. Implementation Details

1. Upload: For this feature I will be providing the user to select the file he wants to upload then, the files name size and the type are extracted using the specific functions. Then the target location is checked to see if the name of file to be uploaded is already present to any media of that type. If so any error message is shown to the user to upload another media. Then the actual file is move to the target location and the appropriate permissions are set to the file.
2. Metadata Input: While the user is uploading the file. The Meta data like category, keywords, whether to allow comments to this user media or not are made mandatory. By using the keyword required. Then the collected data is entered into the media table for feature use.

3. Download/View: The video tag with necessary information like the source and the type of the media being displayed is used to fill this tag. Then the media is displayed with the specific size and the controls are provided to the user.
4. Sharing and Blocking: For this I made use of the foes and the friends of the logged in user. For sharing the media I have given list of options which contains his friends. After the selection the media is shared to the person intended to. Similarly the foes of the owner of the media can't see the media.
5. Messaging: There are two options that I provide. One to check the messages. Once the user has any messages that are retrieved from the message table along with the other related information along with it like the user who sent this message, sent time and the actual message is displayed. Then the other option is that the user can send messages to any of the existing user in the database. For this a list of all the users are displayed to the user then he can compose the message and after submitting it. The message is taken and is written to the message table. So that if the receiver check his messages this can be displayed by reading from the message table.
6. Commenting: If the owner has allowed to comment on this media, only then they are shown. Then all the comments related to this media is obtained from the database and displayed below the media. A text area is provided so that the user can enter his comments on this media. Then the comment is updated in the comments table with this media id and the user id and the time of his comment are saved in the database. Then this comment is also updated.
7. Media Rating: For this if the user needs to select the options that are displayed to him. A range of 1-10 are given. If the user submits that rating the rating count for this media is increased and the new rating will be updated.
8. Group discussion: A user can create a new group, for this he needs to enter the group name and this is checked if this is already taken by someone already. The new group which he created is ready for anyone to join and he is the owner of this group and he is a default member of this new group. Second feature is to join an existing group. For this he is given a list of groups which he is not part of. Then he can join by submitting the name of the group he is intended to join. Third he can see his groups and comment in them. His comments are updated to the correct group.
9. Search: Keyword based, corresponding to the word entered by the user the database is searched for the keywords and the matching media is displayed. In the case of category based, the media is displayed based on the category that the user has selected. For the size based the size column is checked if the size matches the size the user is looking for and the results are displayed if the match is found. For the most viewed search it is based on the number of view we search the database and the descending order is displayed. For the most recent uploaded media, the database is searched based on the time it is uploaded and results are displayed accordingly. For the word cloud the all the keyword and the title of the media is displayed with the link option for each word and the display format is designed to give a good look and the colors vary for the words to get a different feel from all the other searches.

5. User Instruction

5.1 User Account

1. Log In and Register

The whole process of user register and log in is displayed in this orange window. After the whole process is done, if user successfully logged in, jump to the 'loginindex.php' page in which the log in and register window would disappear and 'My Contacts', 'Messages', and 'My Page' would display on the left navigator.

The image contains two side-by-side screenshots of a web form. The left screenshot shows a 'LOGIN' screen with fields for 'Email:' and 'Password:', and a 'LOGIN' button. Below these fields is a link 'New here?' followed by a 'REGISTER' button. The right screenshot shows a 'Please Register!' screen with fields for 'Username:', 'Email:', 'Password:', and 'Repeat Password:'. Below these fields is a note 'Password has to be at least 6 characters.' and two buttons: 'REGISTER' and 'BACK'.

Also, 'Log Out' Option would display on the right corner of the header in the 'loginindex.php' page. One user can log out anytime after he/she logged in.



2. User Profile

After user logged in, Username would display on the right corner of the header in the 'loginindex.php' page. Here username is a link to the user profile. For example, below is the user 'Siqi'.



When user clicks on the link, it jumps to the user profile page. User can view his/her own profile information and change some of the information, such as 'status' and gender. User Email and username cannot be changed. There is a link for the user to change the password. It directs to 'changepw1.php' where users can first verify their passwords and then change their passwords.

Welcome to Metube!

Welcome [Siqi](#) | [Log Out](#)

My Profile	
Home	Name: siqi
Most Viewed	E-mail: siqi@gmail.com
Most Recent	Password: Change my password
Music	Status: I am ok
Movies	Gender: <input type="radio"/> Female <input checked="" type="radio"/> Male
Sport	<input type="button" value="Submit"/> <input type="button" value="Reset"/>

Please input your former password:

[Return](#)

Please input your new password:

Please repeat your new password:

Password must be at least 6 characters.

[Return](#)

3. User Contacts
User Contacts appear only after a user has logged in. It shows on the left navigator as 'My Contacts'.

Entertain

My Contacts

The link directs to 'mycontact.php'. Here shows all the contacts of this user. A user can manage his/her contacts. There are two kinds of operations. One is block and another is remove contacts.

#	Username	Email	Status	Gender	Block/Unblock	Remove Contacts
1	Mike	mike@gmail.com	Ha ha ha	m	<input type="button" value="Unblock"/>	<input type="button" value="Remove"/>
2	Kate	kate@qq.com		f	<input type="button" value="Unblock"/>	<input type="button" value="Remove"/>
3	Bill	billgates@gmail.com	Goodbye	m	<input type="button" value="Block"/>	<input type="button" value="Remove"/>
4	Joe	joe@gmail.com	I am sad	f	<input type="button" value="Block"/>	<input type="button" value="Remove"/>
5	Jenny	jenny@gmail.com	Bla bla bla	f	<input type="button" value="Block"/>	<input type="button" value="Remove"/>
6	Josh	josh@gmail.com	Fighting	m	<input type="button" value="Block"/>	<input type="button" value="Remove"/>

In 'mycontact.php', there are an 'Add Contact' button and a 'My Friends and Foes' button. When click on the 'Add Contact' button, it jumps to 'addcontact.php' where user can add a contact to this list. There is also a link on this page that allows user to go back to 'mycontact.php'.

Please input the Email of the contact you want to add.

[My Contact](#)

4. Friends and Foes

When click on the 'My Friends and Foes' button, it directs to a page 'friendfoe.php' that shows all the friends and foes of this user.

#	User Name	Email	Status	Gender	Remove Friend
1	Joe	joe@gmail.com	I am sad	f	<input type="button" value="Remove"/>
2	stella	stella@gmail.com	stella	f	<input type="button" value="Remove"/>

#	User Name	Email	Gender	Remove Foe
1	Josh	josh@gmail.com	m	<input type="button" value="Remove"/>

User can also remove friends or foes through the button of this table. And there are buttons that allow user to add friends and foes. The two button direct to 'addfriend.php' and 'addfoe.php'.

Please input the Email of the friend you want to add.

Search

My Friends and Foes

Please input the Email of the foe you want to add.

Search

My Friends and Foes

5. User Blocking

In the 'mycontact.php' page, user can block their contact by clicking on the 'Block' button attached to this contact. And by clicking on the 'Unblock' button user can unblock this contact. The result appears on the same page with the same table.

MY CONTACTS						
#	Username	Email	Status	Gender	Block/Unblock	Remove Contacts
1	Mike	mike@gmail.com	Ha ha ha	m	<input type="button" value="Unblock"/>	<input type="button" value="Remove"/>
2	Kate	kate@qq.com		f	<input type="button" value="Unblock"/>	<input type="button" value="Remove"/>
3	Bill	billgates@gmail.com	Goodbye	m	<input type="button" value="Block"/>	<input type="button" value="Remove"/>
4	Joe	joe@gmail.com	I am sad	f	<input type="button" value="Block"/>	<input type="button" value="Remove"/>
5	Jenny	jenny@gmail.com	Bla bla bla	f	<input type="button" value="Block"/>	<input type="button" value="Remove"/>
6	Josh	josh@gmail.com	Fighting	m	<input type="button" value="Block"/>	<input type="button" value="Remove"/>

5.2 Media Organization

1. Browse by category

The 'index.php' and 'loginindex.php' both have a navigator on the left that shows the categories of the medias. These categories are 'Music', 'Movies', 'Sports', 'News', 'Images', 'Education', 'TV', 'Entertain'. On clicking each link, it directs to the according page that shows all the medias under this category. When nothing under this category, it shows 'No results'.



Musics Page

Musics



Om Mani Padme Hum
Upload User:[dummy](#)
Upload Time:
2015-04-15 04:33:24
Viewed Times:8
[Add to Favorite](#)
[Add to Playlist](#)
Channel:CC
[Subscribe](#)
[Share](#)

Movies Page

Movies



Bunny
Upload User:[siqi](#)
Upload Time:
2015-04-17 22:10:16
Viewed Times:28
[Add to Favorite](#)
[Add to Playlist](#)
Channel:new channel
[Subscribe](#)
[Share](#)

Sport Page

Sports

No result.

News Page

News

No result.

Images Page

Images



[sunset](#)
Upload User:[dummy](#)
Upload Time:
2015-04-15 04:00:42
Viewed Times:21
[Add to List](#)



[butterfly](#)
Upload User:[dummy](#)
Upload Time:
2015-04-15 22:58:19
Viewed Times:8
[Add to List](#)



[121106202358](#)
Upload User:[sisi](#)
Upload Time:
2015-04-16 01:43:56
Viewed Times:1
[Add to List](#)



[2.gif](#)
Upload User:[sisi](#)
Upload Time:
2015-04-16 19:04:15
Viewed Times:1
[Add to List](#)



[3.gif](#)
Upload User:[sisi](#)
Upload Time:
2015-04-17 21:30:07
Viewed Times:0
[Add to List](#)



[picture.jpg](#)
Upload User:[sisi](#)
Upload Time:
2015-04-17 21:54:59
Viewed Times:0
[Add to List](#)

Education Page

Education

No result.

TV Page

TV

No result.

Entertainment Page

Entertainment

SEARCH

	finger shapes	Upload User: dummy	Upload Time: 2015-04-15 22:53:47	Viewed Times:3	Add to Favorite	Add to Playlist	Channel: Subscribe	Share
	Eagle.mp4	Upload User: dummy	Upload Time: 2015-04-16 23:18:55	Viewed Times:4	Add to Favorite	Add to Playlist	Channel: Subscribe	Share
	Eagle.mp4	Upload User: dummy	Upload Time: 2015-04-17 21:17:33	Viewed Times:1	Add to Favorite	Add to Playlist	Channel: Subscribe	Share

2. Channel

Each media has a channel name and a 'Subscribe' link under it. Channel name shows which channel this media belongs to and the 'Subscribe' link allows a logged in user to subscribe to this channel.

There is also a 'My Page' link on the left navigator which links to 'channel.php'. Here is the 'channel.php' page.

[My Upload](#)

[My Favorite](#)

[My Play List](#)

[My Channel](#)

[My Subscribe](#)

In 'channel.php' page there is a 'My Channel' link and a 'My Subscribe' link. 'My Channel' links to the user's own channel.

Welcome Site

MY CHANNEL

#	Channel Name
1	Channel 1
2	My Channel
3	new channel
4	new

And 'My Subscribe' links to user's subscribe.

MY SUBSCRIBE

#	Channel Name	Unsubscribe
1	Channel 1	Unsubscribe
2	Another Channel	Unsubscribe

In the 'My Subscribe' table, user can unsubscribe this channel through the 'Unsubscribe' button. Both in the 'My channel' table and 'My Subscribe' table, user can browse the media in one channel by click on the link of this channel name. For example, when click on 'Channel 1', it jumps to 'chmedia.php' that shows all the medias in this channel.

[My Page](#)

Channel 1



[3.gif](#)
Upload User:[sigi](#)
Upload Time:
2015-04-17 21:30:07
Viewed Times:2
[Add to Favorite](#)
[Add to Playlist](#)
Channel:Channel 1
[Subscribe](#)
[Share](#)

3. Playlists

Under each video media lies an 'Add to Playlist' Link. Only video medias have this link. Because a playlist is able to play all the videos in this list one by one automatically and images cannot be played. When click on the 'Add to Playlist' link, it directs to 'newpl.php' where the logged in user can choose a existing playlist or add a new list for this media he/she wants to add.

Please select an existing Play List:

Add a new Play List

After successfully added this media, user can check out his/her playlist. For example, this user has two playlist, 'list' and 'new list'. 'list' contains 3 medias and 'new list' has one media.

MY PLAY LIST

list [PLAY THIS LIST](#)

#	Media Name	Remove Media
1	Bunny	<input type="button" value="Remove"/>
2	IMG_2381	<input type="button" value="Remove"/>
3	firstfriday	<input type="button" value="Remove"/>

new list [PLAY THIS LIST](#)

#	Media Name	Remove Media
1	Eagle	<input type="button" value="Remove"/>

Each playlist has a 'PLAY THIS LIST' link. When click on this link, it automatically plays all the videos in this list one by one. After finished this list, it jumps back to this 'MY PLAY LIST' page. Users are able to manage their own playlist. They can remove the media by click on the 'Remove' button and can watch each video individually by click on the name of this video.

4. Favorite Lists

On the 'My Page' list, there is a 'My Favorite' link. When click on this link it jumps to 'myfav.php' where shows user's favorite list.

WELCOME PAGE

MY FAVORITE LIST

#	Media Name	Remove Media
1	sunset	<input type="button" value="Remove"/>
2	Om Mani Padme Hum	<input type="button" value="Remove"/>
3	Eagle	<input type="button" value="Remove"/>

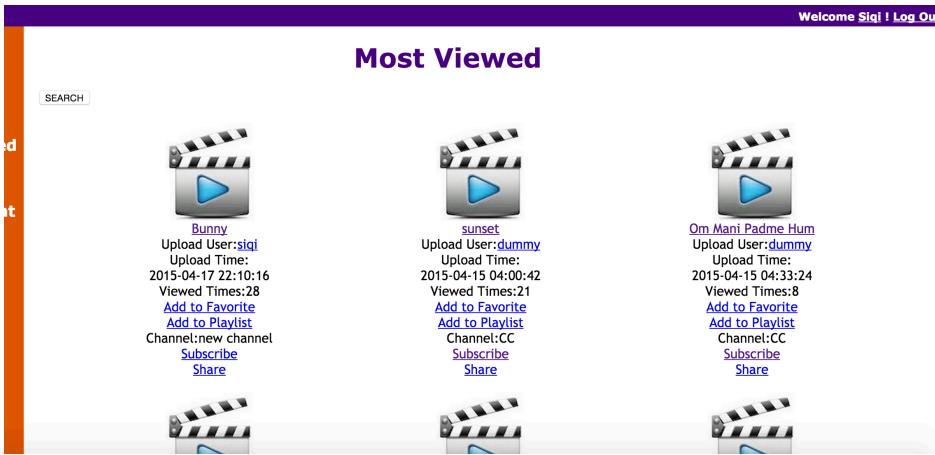
User is able to watch these medias by click on their names and remove them by click on the 'Remove' button. Both videos and images can be add to the favorite list.

5. Most Viewed

There is a 'Most Viewed' link on the left navigator. When click on this link, it jumps to 'mostviewed.php' which arranges the medias by 'viewed times'. Medias with a larger number of 'view times' come first.

Most Viewed

Most Recent



6. Most Recently Uploaded

There is a 'Most Recent' link on the left navigator. When click on this link, it jumps to 'mostrecent.php' which arranges the medias by 'upload time'. Medias with a later 'upload time' come first.

Most Viewed

Most Recent

Welcome Siqi ! Log Out

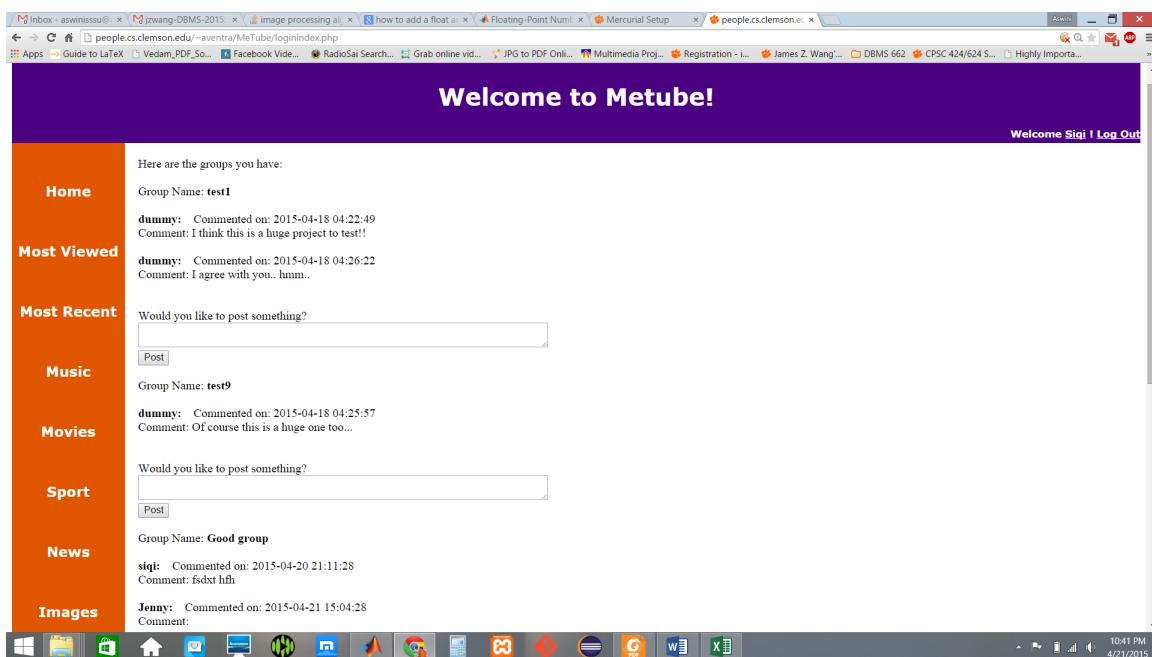
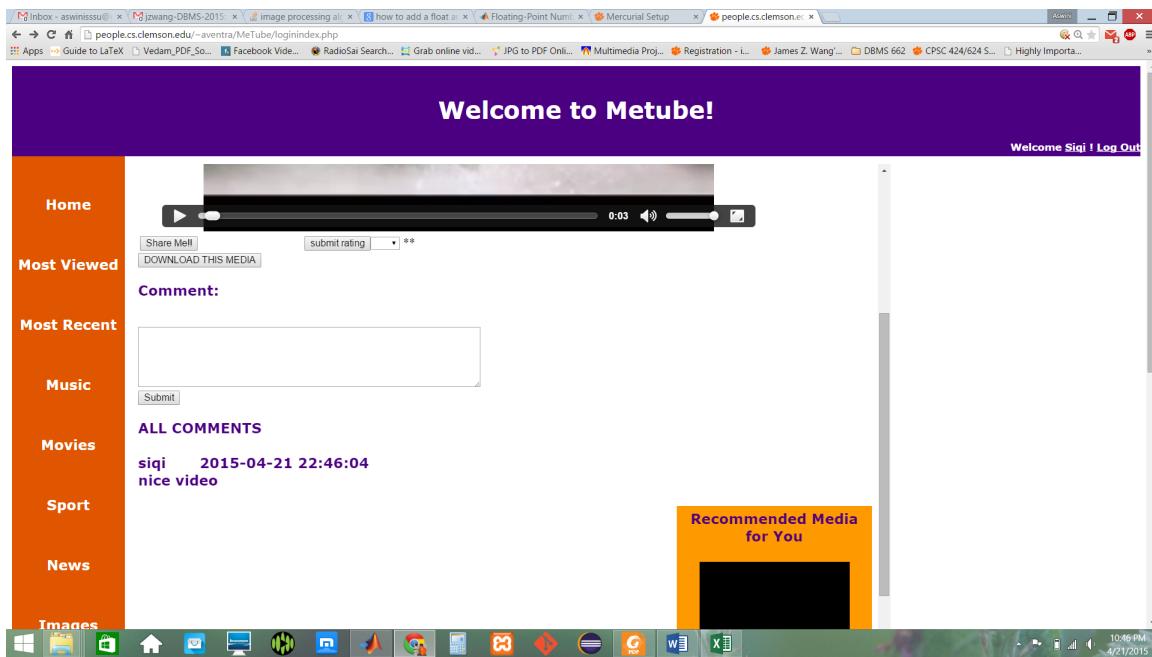
Most Recent

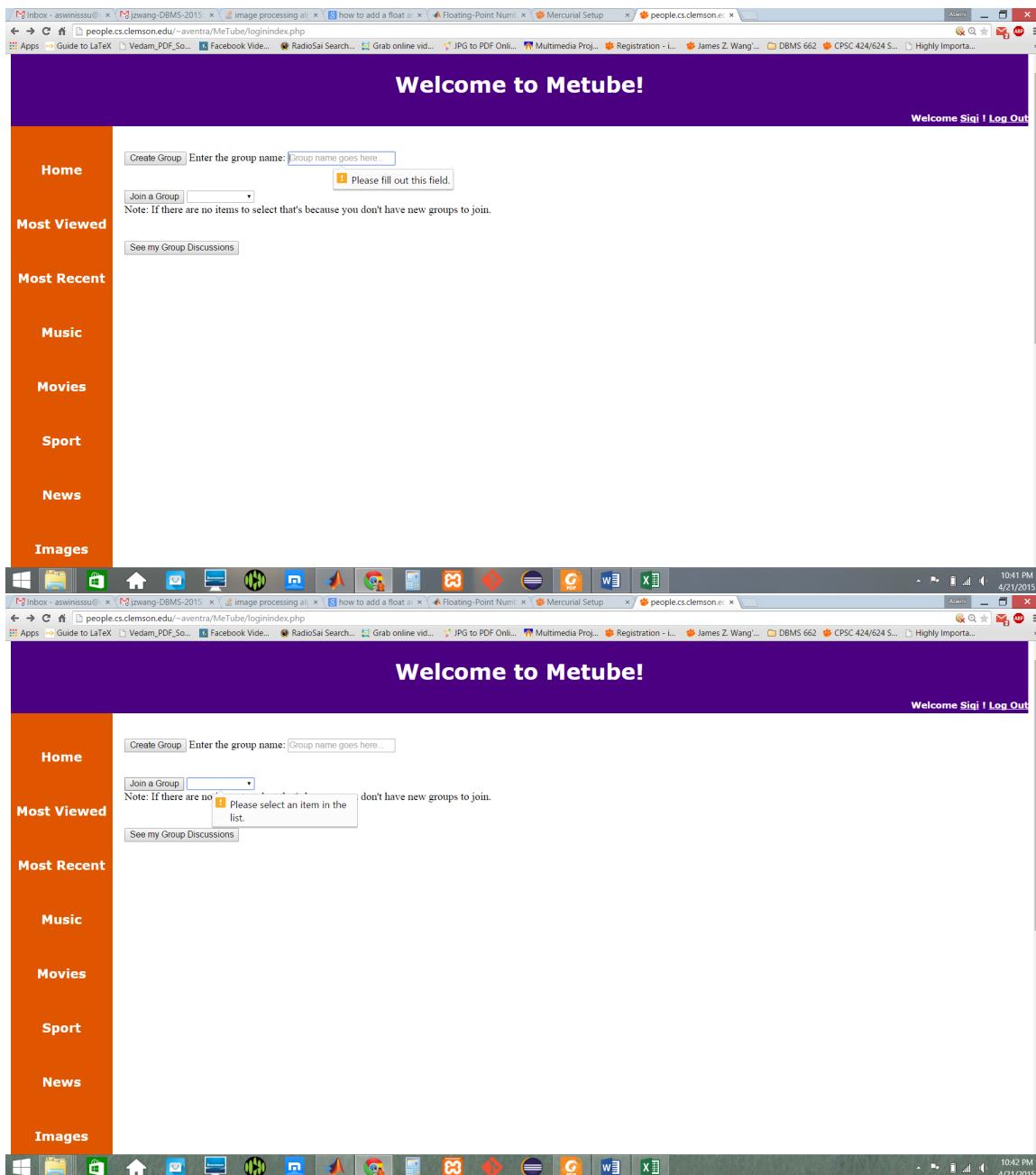
SEARCH

5.3 Data Sharing, User Interaction and Search

1. Upload: user should go to the 'Mypage' and then select uploads option and can upload the image or video or an audio. The fields category, keywords and file are mandatory.

2. Rating: User will be shown a rate button below the media for rating. He can select the rating options and select the submit button.
3. Share: user will be shown a share option below each media. Upon clicking it he will see the list of his friends he has and he can select one among them.
4. Message: A logged in user will be able to see this at the bottom left of the page. After clicking the message option. At the top of the page he can see his messages or he can send messages by selecting a destination user and type the message. When the user other logs in, first he has to go to the messages section in the left bottom select it. Then he can click on check messages, now he will find the messages that are send to him.
5. Group discussion: A logged in user will be able to see G_Discussion at the bottom left of the page. After clicking the button he can create a new group or see his group or join a new group.
6. Recommended media is present below each media, user can select one from that option.
7. Comments are shown below each media, using the textbox the user can comment and see other comment for that media. For some media the owner of that file has disabled the comments option.
8. For downloading a specific media a button is present below the media, just by clicking on that the file can be downloaded.
9. For blocking a user form see the media you uploaded, then add the user you intended to block in your foe table using my contacts section present in the bottom left of the page.
10. For searching, there is a search button present on most of the pages at the left top. Once that is clicked. It will take to a variety of search options. Keyword based search. For this there is space provided to enter the keywords and press submit to see the results if there are any of them. There is a category-based search provided. This is can be used by selecting the category of interest and click submit. Size based search is another option. User is provided with four different options to select from. 0-5 Mb, 5-10 Mb, 10-15 Mb and 15 to any size beyond this. The results are displayed according to the option selected by the user. There is a word cloud, which is formed based on the keywords and the title of the media present in the database. Just by clicking on this user can see the results corresponding to the word.





Welcome to Metube!

Welcome Sigi | Log Out

Message sent successfully!

[Go back](#)

Home

Most Viewed

Most Recent

Music

Movies

Sport

News

Images

Time: 2015-04-21 14:49:41
From: Jenny:
Message: 1

Time: 2015-04-21 14:44:56
From: Jenny:
Message: how are siqi? This is jenny...

Time: 2015-04-20 14:05:18
From: aswini:
Message: Hi, How are you.

Time: 2015-04-19 17:09:21
From: siqi:
Message: hello

Time: 2015-04-18 00:13:50
From: siqi:
Message: hello again

Time: 2015-04-18 00:12:15
From: siqi:
Message: hello

[Go back](#)

Inbox - aswinissu@... zwang-DBMS-2015 image processing how to add a float Floating-Point Num... Mercurial Setup people.cs.clemson.edu...

people.cs.clemson.edu/~aventra/MeTube/loginindex.php

Apps Guide to LaTeX Vedam_PDF_So... Facebook Video... RadioSai Search... Grab online vid... JPG to PDF Onli... Multimedia Proj... Registration - L... James Z. Wang... DBMS 662 CPSC 424/624 S... Highly Importa...

Welcome to Metube!

Welcome Sign In Log Out

Home

Select image to upload: Choose File No file chosen Upload Image
Category image ** Keywords: Allow Comments Yes **

Most Viewed

Select video to upload: Choose File No file chosen Upload Video
Category ** Keywords: Allow Comments Yes **

Most Recent

Select audio to upload: Choose File No file chosen Upload Video
Category ** Keywords: Allow Comments Yes **

Music

Movies

Sport

News

Images

10:43 PM 4/21/2015

The screenshot displays the Metube website's user interface. On the left, a vertical sidebar lists categories: Home, Most Viewed, Most Recent, Music, Movies, Sport, News, and Images. The main content area features three separate upload forms for images, videos, and audio. Each form includes fields for selecting files, entering keywords, and setting comment permissions. The top navigation bar shows the user is logged in with 'Welcome' and provides links for 'Sign In' and 'Log Out'. The taskbar at the bottom contains icons for various Windows applications.

Appendix I

Comments

Column	Type	Null	Default	Comments	MIME
<u>media_id</u>	bigint(18)	No			
<u>user_id</u>	bigint(18)	No			
comment	varchar(1024)	No			
time	datetime	No			

Favorite_List

Column	Type	Null	Default	Comments	MIME
User_ID	bigint(20)	No			
Media_ID	bigint(20)	No			

Message

Column	Type	Null	Default	Comments	MIME
<u>From UserID</u>	bigint(18)	No			
<u>To UserID</u>	bigint(18)	No			
Message	varchar(1024)	No			
time	datetime	No			
msg_read	tinyint(4)	No			

User

Column	Type	Null	Default	Comments	MIME
<u>user_id</u>	bigint(20)	No			
username	varchar(30)	No			
password	varchar(30)	No			
email	varchar(50)	No			
status	varchar(200)	No			
gender	varchar(1)	No			

block_user

Column	Type	Null	Default	Comments	MIME
<u>user_id</u>	bigint(50)	No			
<u>block_user_id</u>	bigint(50)	No			

channel

Column	Type	Null	Default	Comments	MIME
user_id	bigint(50)	No			
<u>channel_id</u>	bigint(50)	No			
title	varchar(100)	No			

contact

Column	Type	Null	Default	Comments	MIME
user_id	bigint(50)	No			
<u>contact_id</u>	bigint(50)	No			

foe

Column	Type	Null	Default	Comments	MIME
user_id	bigint(20)	No			
<u>foe_id</u>	bigint(20)	No			

friend

Column	Type	Null	Default	Comments	MIME
user_id	bigint(20)	No			
<u>friend_id</u>	bigint(20)	No			

gdcontent

Column	Type	Null	Default	Comments	MIME
<u>gd_id</u>	bigint(20)	No			
<u>user_id</u>	bigint(20)	No			
comment	longtext	No			
time	datetime	No			

gdmembers

Column	Type	Null	Default	Comments	MIME
gd_id	bigint(20)	No			
gd_userid	bigint(20)	No			

gdteams

Column	Type	Null	Default	Comments	MIME
gd_id	bigint(20)	No			
owner_id	bigint(20)	No			
gd_name	varchar(100)	No			

media

Column	Type	Null	Default	Comments	MIME
media_id	bigint(50)	No			
title	varchar(100)	No			
category	varchar(30)	No			
upload_time	datetime	No			
view_time	bigint(50)	No			
rate	decimal(3,0)	No			
rate_time	int(50)	No			
upload_user	int(50)	No			
type	varchar(10)	No			
size	bigint(10)	No			
path	varchar(100)	No			
keywords	longtext	No			
channel_id	bigint(20)	No			
allow_comments	tinyint(1)	No			

playlist_media

Column	Type	Null	Default	Comments	MIME
playlist_id	bigint(50)	No			
media_id	bigint(50)	No			

shared_media

Column	Type	Null	Default	Comments	MIME
user_id	bigint(20)	No			
media_id	bigint(20)	No			
shared_by_user_id	bigint(20)	No			

subscribe_channel

Column	Type	Null	Default	Comments	MIME
channel_id	bigint(50)	No			
user_id	bigint(50)	No			

user_playlist

Column	Type	Null	Default	Comments	MIME
playlist_id	bigint(50)	No			
user_id	bigint(50)	No			
playlist_name	varchar(150)	No			

