

CPSC 304 Project Cover Page

Milestone #: 4

Date: 2021/Nov/28

Group Number: 52

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By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

Short Description of The Final Project

[Group 52]

Important Files included in submission:

1.Milestone2.sql (The SQL script to create all the tables and data in the database)

2 README.md (The readme file)

Repository Link:

https://github.students.cs.ubc.ca/CPSC304-2021W-T1/project_e5v2m_m3j3b_x1k3b.git

Link to the main page:

<https://www.students.cs.ubc.ca/~qliu20/LoginPage.php>

a: A short description of our final project, and what it accomplished.

In our final project, we finished a video-sharing system called “UBC VIDEO BRAIN”. The system is composed of various components including users, accounts, channels, recorded videos, administrators, help centres, live streams, forums and sponsor companies. It allows users to fetch the data from our created database.

There will be two different classes of operators of the system: the users and the administrators. More specifically,

Users are allowed to get the information of:

1. Display the tag and average timelong in the LiveStream Filter, for each Tag with at least 2 such videos
2. Display the tag with timelong of livestream compared with the average of period length of each kind of tag
3. Display the tag, LivestreamID, PeriodLength and BeginTime with the given Tag
4. Display the row from reContain table given the status of the video
5. Display the column of ID and length of video from the reContain table
6. Insert and delete a request for help in help center page

The administrators will be able to access:

1. Get access to all the accounts, users, videos and channels information and modify their status and information
2. Display all the sponsorships
3. Analyse each channel's sponsorship
4. Display the channels which has sponsorship with all sponsor companies
5. Monitor channels and videos

We used html, css, php to accomplish it and load the data from the Oracle database system provided by UBC Department of Computer Science.

Finally, we believe our final project will benefit the company that wants to develop a video-sharing service by providing an operational and integrated structure that makes a proper connection within all components in the company.

b: A description of how our final schema differed from the schema you turned in.

In our final schema, we changed two things. One is that we add a tag to each livestream on the LiveStreamMain table. And the main reason for this change is that we can fetch information by giving different tags. Another one is that we update the Administrator schema by getting the idea from our milestone3. It shows as below:

Administrator(AdminID: string, WorkStatus: integer, Name: string)

Primary keys: AdminID

Candidate keys: AdminID, Name

Foreign keys: N/A

FDs:

2NF

AdminID -> WorkStatus, Name

Name -> WorkStatus

The main reason for this change is exactly as what our TA pointed out before, we only want to let “Name” determine “WorkStatus” instead of determining both “WorkStatus” and “adminID”. In that case, “Name” is not supposed to be regarded as a candidate key.

- A list of all SQL queries we used
 - with screenshots of the sample output of our queries using the GUI
- (All graded Queries are highlighted in this way)

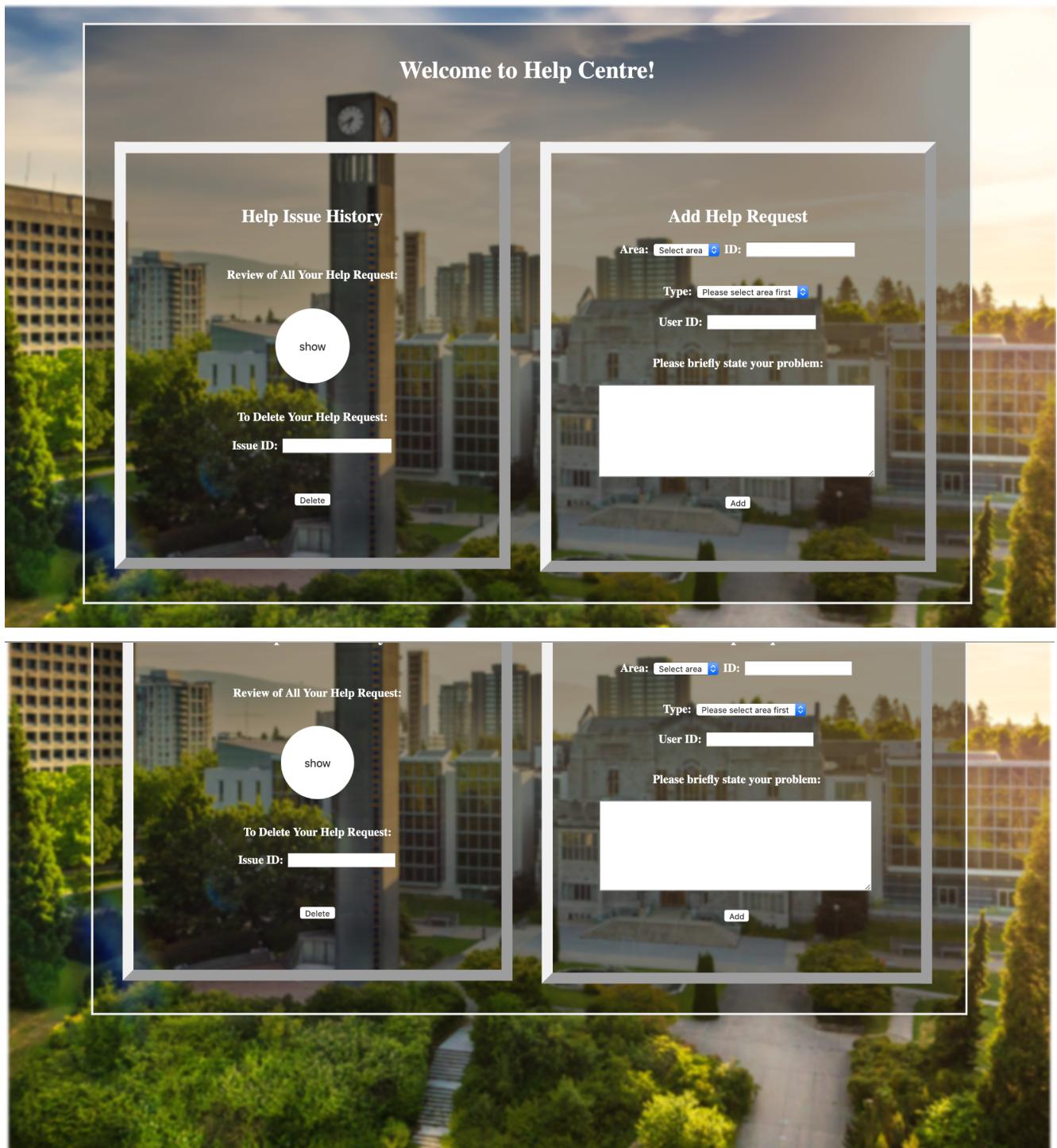
INSERT Operation

HelpCentre.php

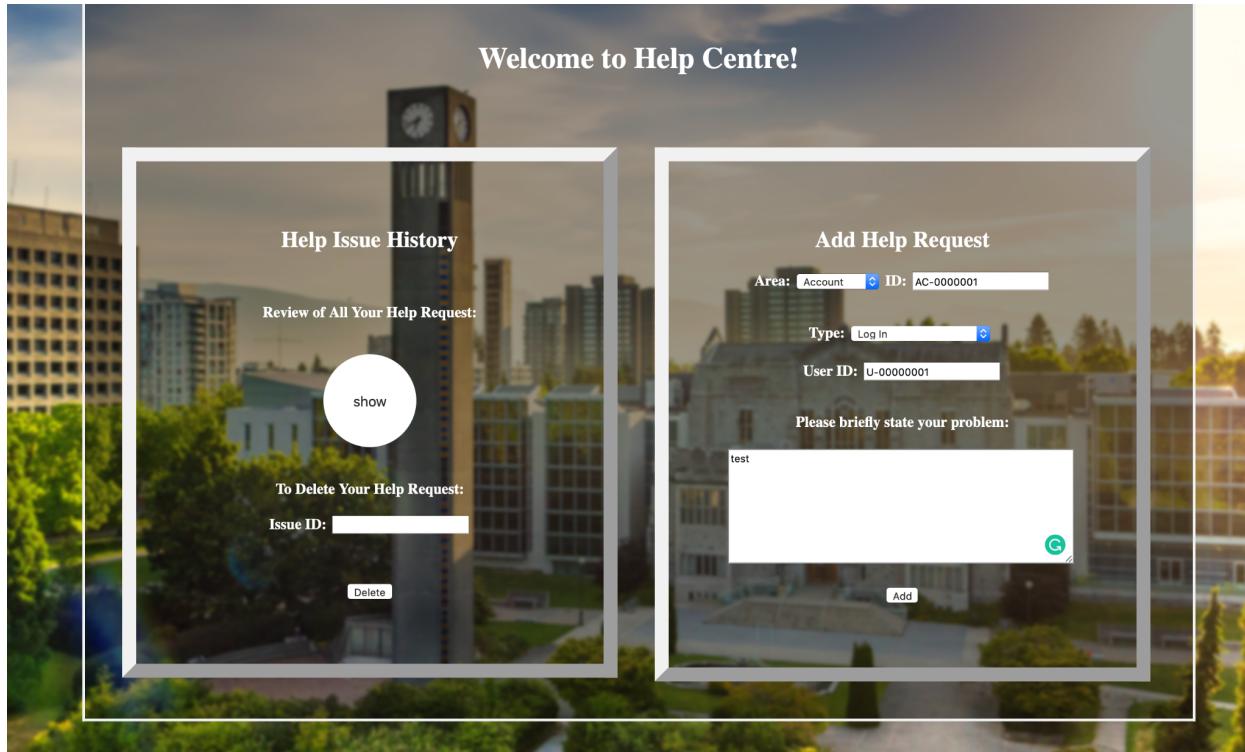
```
// INSERT Operation Query: insert an help issue  
// Starts from line 199 (function handleInsertRequest())
```

```
INSERT INTO helpcenter  
    VALUES  
(:HelpIssueID,:ChannelID,:UserID,:VideoID,:AccountID,:PostID,:LiveStreamID,:Process  
Status,:IssueContent,:IssueType)
```

INSERT Screenshots



HelpIssueID	Type	Content	Status
H-00000002	ubcr-Account	Can not create multiple accounts	1
H-00000003	Video-Permission	Video are blocked	0
H-00000004	Account-LogIn	Log in failed	1
H-00000005	posted-AggressContent	racially discriminatory posted	1
H-00000006	Livestream-Record	Livestream cannot be recorded	0



HelpIssueID	Type	Content	Status
H-97747216	Log In	test	0
H-00000002	ubcer-Account	Can not create mutiple accounts	1
H-00000003	Video-Permission	Video are blocked	0
H-00000004	Account-LogIn	Log in failed	1
H-00000005	posted-AgressContent	racially discriminatory posted	1
H-00000006	Livestream-Record	Livestream cannot be recorded	0

DELETE OPERATION

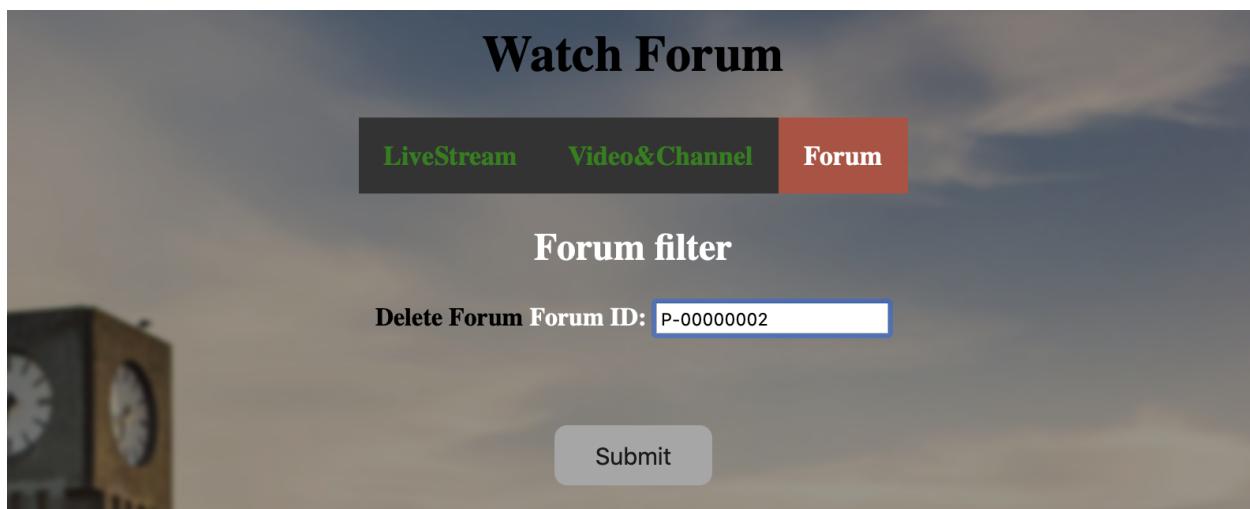
WatchForum.php

```
// DELETE Operation Query: delete an forum cascade  
//Starts from line 159(function handleDeleteIssueRequest())  
DELETE FROM forum WHERE PostID ='" . $id_to_delete . "'
```

Delete Screenshots

ForumID	ForumTag	Author	Title
P-00000002	TV	Chace Gonzalez	Talent Show
P-00000003	meal	Gorden Ramsay	Wonderful Steak
P-00000004	learning	Joma Tech	Leetcode Solution
P-00000005	sport	Joel Levy	Swimming technique
P-00000006	sport	Missi Ivy	Soccer technique

HelpIssueID	ForumID	Type	Content	Status
H-00000002	P-00000002	ubcer-Account	Can not create mutiple accounts	1
H-00000003	P-00000003	Video-Permission	Video are blocked	0
H-00000004	P-00000004	Account-LogIn	Log in failed	1
H-00000005	P-00000004	posted-AgressContent	racially discriminatory posted	1
H-00000006	P-00000006	Livestream-Record	Livestream cannot be recorded	0



ForumID	ForumTag	Author	Title
P-00000003	meal	Gorden Ramsay	Wonderful Steak
P-00000004	learnning	Joma Tech	Leetcode Solution
P-00000005	sport	Joel Levy	Swimming technique
P-00000006	sport	Missi Ivy	Soccer technique

HelpIssueID	ForumID	Type	Content	Status
H-00000003	P-00000003	Video-Permission	Video are blocked	0
H-00000004	P-00000004	Account-LogIn	Log in failed	1
H-00000005	P-00000004	posted-AgressContent	racially discriminatory posted	1
H-00000006	P-00000006	Livestream-Record	Livestream cannot be recorded	0

UPDATE Operation

AdminContent.php

```
// Update Query: Update the status of account from 1(active) to 0(blocked)  
//Starts from line 318(function handleUpdateRequest())
```

```
UPDATE accountOwn SET AccountStatus = 0 WHERE AccountID="" . $account_a_id .  
" AND UserID="" . $user_a_id . "
```

```
// Update Query: Update the status of video from 1(active) to 0(blocked)
```

```
UPDATE rvContain SET VideoStatus = 0 WHERE VideoID="" . $video_a_id . " AND  
ChannelID="" . $channel_a_id . "
```

```
// Update Query: Update the status of channel from 1(active) to 0(blocked)
```

```
UPDATE channel SET ChannelStatus = 0 WHERE ChannelID="" . $channel_a_id . "
```

```
// Update Query: Update the birth date
```

```
UPDATE accountOwn SET BirthDate = "" . $n_bd . " WHERE AccountID="" .  
$account_a_id . " AND UserID="" . $user_a_id . "
```

```
// Update Query: Update the password
```

```
UPDATE accountOwn SET AccountPassword = "" . $n_password . " WHERE  
AccountID="" . $account_a_id . " AND UserID="" . $user_a_id . "
```

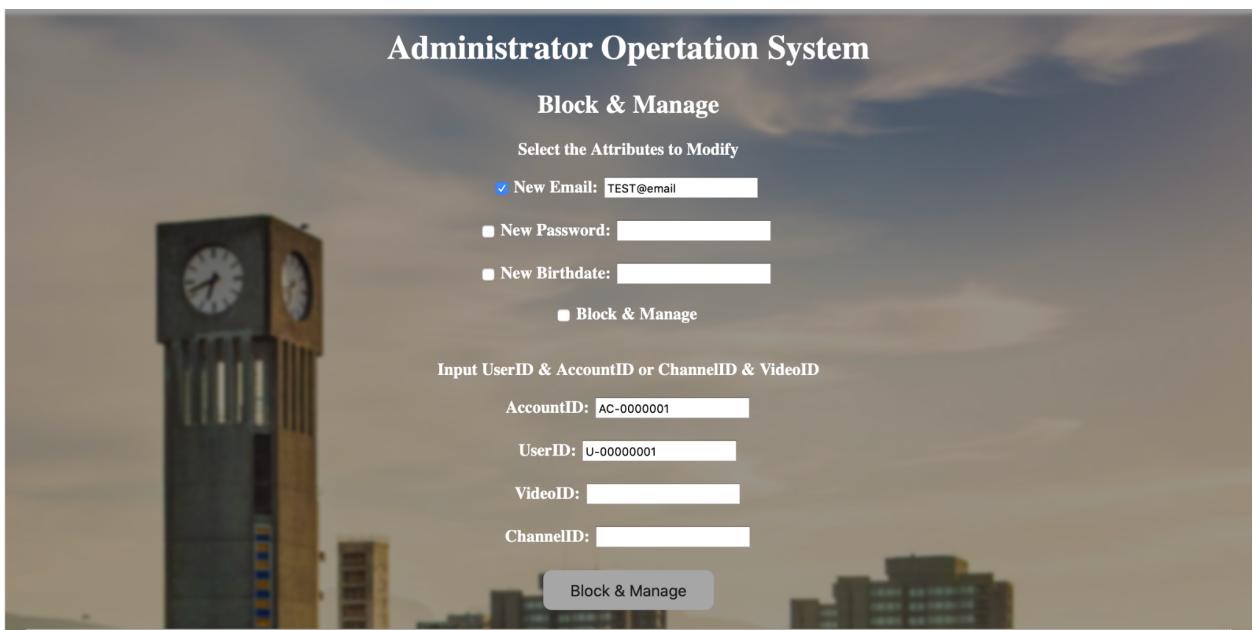
```
// Update Query: Update the email
```

```
UPDATE accountOwn SET Email = "" . $n_email . " WHERE AccountID="" .  
$account_a_id . " AND UserID="" . $user_a_id . "
```

UPDATE Screenshots



AccountID	UserID	AccountStatus	Email	Password	BirthDate
AC-00000001	U-00000001 0		test@email	322	31-AUG-02
AC-00000002	U-00000002 0		yufeicaimail1@gmail.com	1234567	30-SEP-01
AC-00000003	U-00000003 0		yufeicaimail2@gmail.com	123456	31-OCT-01
AC-00000004	U-00000004 0		yufeicaimail3@gmail.com	12345	30-NOV-01
AC-00000005	U-00000005 0		yufeicaimail4@gmail.com	1234	31-DEC-01
AC-00000006	U-00000005 0		yufeicaimail5@gmail.com	123	31-JAN-00



AccountID	UserID	AccountStatus	Email	Password	BirthDate
AC-00000001	U-00000001 0		TEST@email	322	31-AUG-02
AC-00000002	U-00000002 0		yufeicaimail1@gmail.com	1234567	30-SEP-01
AC-00000003	U-00000003 0		yufeicaimail2@gmail.com	123456	31-OCT-01
AC-00000004	U-00000004 0		yufeicaimail3@gmail.com	12345	30-NOV-01
AC-00000005	U-00000005 0		yufeicaimail4@gmail.com	1234	31-DEC-01
AC-00000006	U-00000005 0		yufeicaimail5@gmail.com	123	31-JAN-00

Administrator Operation System

Block & Manage

Select the Attributes to Modify

New Email:

New Password:

New Birthdate:

Block & Manage

Input UserID & AccountID or ChannelID & VideoID

AccountID:

UserID:

VideoID:

ChannelID:

AccountID	UserID	AccountStatus	Email	Password	BirthDate
AC-0000001	U-000000001	0	TEST@email	999	31-AUG-02
AC-0000002	U-000000002	0	yufeicaimail1@gmail.com	1234567	30-SEP-01
AC-0000003	U-000000003	0	yufeicaimail2@gmail.com	123456	31-OCT-01
AC-0000004	U-000000004	0	yufeicaimail3@gmail.com	12345	30-NOV-01
AC-0000005	U-000000005	0	yufeicaimail4@gmail.com	1234	31-DEC-01
AC-0000006	U-000000005	0	yufeicaimail5@gmail.com	123	31-JAN-00

Administrator Operation System

Block & Manage

Select the Attributes to Modify

New Email:

New Password:

New Birthdate:

Block & Manage

Input UserID & AccountID or ChannelID & VideoID

AccountID:

UserID:

VideoID:

ChannelID:

AccountID	UserID	AccountStatus	Email	Password	BirthDate
AC-0000001	U-00000001	0	TEST@email	999	31-AUG-04
AC-0000002	U-00000002	1	yufeicaimail1@gmail.com	1234567	30-SEP-01
AC-0000003	U-00000003	0	yufeicaimail2@gmail.com	123456	31-OCT-01
AC-0000004	U-00000004	0	yufeicaimail3@gmail.com	12345	30-NOV-01
AC-0000005	U-00000005	0	yufeicaimail4@gmail.com	1234	31-DEC-01
AC-0000006	U-00000005	0	yufeicaimail5@gmail.com	123	31-JAN-00

Administrator Operation System

Block & Manage

Select the Attributes to Modify

New Email:

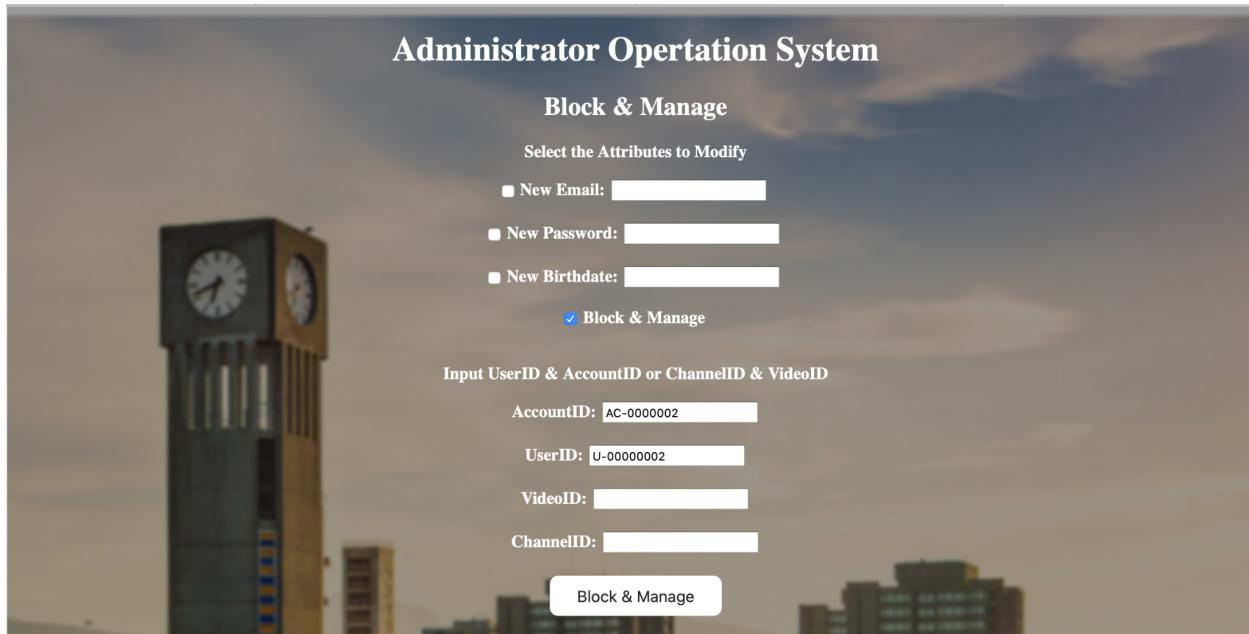
 New Password:

 New Birthdate:

Block & Manage

Input UserID & AccountID or ChannelID & VideoID

AccountID:
 UserID:
 VideoID:
 ChannelID:



AccountID	UserID	AccountStatus	Email	Password	BirthDate
AC-0000001	U-00000001	0	TEST@email	999	31-AUG-04
AC-0000002	U-00000002	0	yufeicaimail1@gmail.com	1234567	30-SEP-01
AC-0000003	U-00000003	0	yufeicaimail2@gmail.com	123456	31-OCT-01
AC-0000004	U-00000004	0	yufeicaimail3@gmail.com	12345	30-NOV-01
AC-0000005	U-00000005	0	yufeicaimail4@gmail.com	1234	31-DEC-01
AC-0000006	U-00000005	0	yufeicaimail5@gmail.com	123	31-JAN-00

SELECTION Operation

AdminContent.php

```
//Selection Query: Monitor channel and video by selecting and displaying desired
attributes
//Starts from line 411(function handleSelection())

// Display all relevant information relevant to given channelID
SELECT *
FROM channel
WHERE channelID = "'.$id .'" 

// Display all relevant information relevant to given channelStatus
SELECT *
FROM channel
WHERE channelStatus = "'.$status .'" 

// Display all relevant information relevant to given channelID and channelStatus
SELECT *
FROM channel
WHERE channelID = "'.$id .'" AND channelStatus = "'.$status .'" 

// Display all relevant information relevant to given VideoStatus
SELECT *
FROM rvContain
WHERE VideoStatus = "'.$v_status .'" 
// Display all relevant information relevant to given Tag
SELECT *
FROM rvContain
WHERE Tag = "'.$tag .'" 

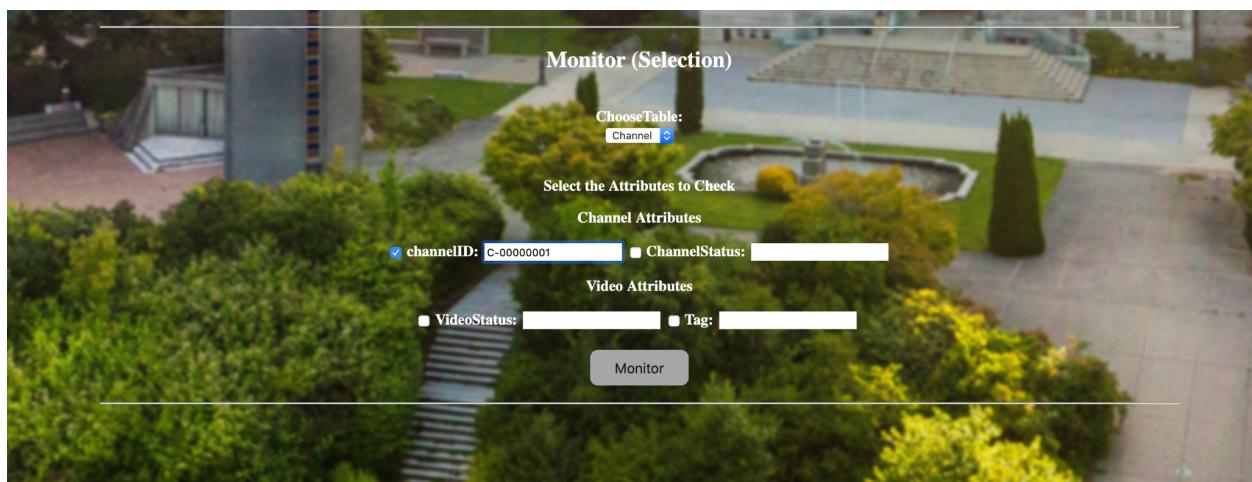
// Display all relevant information relevant to given VideoStatus and Tag
SELECT *
FROM rvContain
WHERE VideoStatus = "'.$v_status .'" AND Tag = "'.$tag .'" 
```

Selection Screenshots

VideoID	ChannelID	VideoStatus	Tag	CreateTime	VideoStatus
V-00000001	C-00000001	00:10:00	music	2021-10-23 14:00:00	0
V-00000002	C-00000002	00:10:00	TV	2021-10-23 15:00:00	0
V-00000004	C-00000004	00:10:00	learnning	2021-10-23 17:00:00	0
V-00000005	C-00000005	00:10:00	sport	2021-10-23 18:00:00	0



VideoID	ChannelID	VideoStatus	Tag	CreateTime	VideoStatus
V-00000005	C-00000005	00:10:00	sport	2021-10-23 18:00:00	0



ChannelID	ChannelStatus	Showlist
C-00000001	1	V-00000001, V-00000002, V-00000003, V-00000004, V-00000005

**ChannelID ChannelStatus**

C-00000002 0

C-00000003 0

Showlist

V-00000001, V-00000002, V-00000003, V-00000004

V-00000001, V-00000002, V-00000003

PROJECTION OPERATION

WatchVideo.php

// An example of Selection Query: return the row from reContain table given the status of the video

```
SELECT * FROM rvContain WHERE VideoStatus = 0
```

```
SELECT * FROM rvContain WHERE VideoStatus = 1
```

// Projection Query: return the columns selected by user from rvContain table

//Starts from line 313(function handleDisplayRequestProjection())

```
SELECT VideoID FROM rvContain
```

```
SELECT VideoLength FROM rvContain
```

```
SELECT Tag FROM rvContain
```

```
SELECT VideoStatus FROM rvContain
```

```
SELECT VideoID, VideoLength FROM rvContain
```

```
SELECT VideoID, Tag FROM rvContain
```

```
SELECT VideoID, VideoStatus FROM rvContain
```

```
SELECT VideoLength, VideoStatus FROM rvContain
```

```
SELECT VideoLength, Tag FROM rvContain
```

```
SELECT Tag, VideoStatus FROM rvContain
```

```
SELECT VideoID, VideoLength, Tag FROM rvContain
```

```
SELECT VideoID, VideoLength, VideoStatus FROM rvContain
```

```
SELECT VideoID, Tag, VideoStatus FROM rvContain
```

```
SELECT VideoLength, Tag, VideoStatus FROM rvContain
```

```
SELECT VideoID, VideoLength, Tag, VideoStatus FROM rvContain
```

Projection Screenshots

Watch Video

LiveStream Video Forum

Filter Video by Columns (Projection)

VideoID Length VideoStatus Tag

Check all video from desired perspectives

Filter Video by Rows (Selection)

Video Status:

blocked

Find Video

Sign Out! Back to -> Home Page :)

VideoLength **VideoTag** **VideoStatus**

00:10:00	music	0
00:10:00	TV	0
00:10:00	meal	1
00:10:00	learnning	0
00:10:00	sport	0
00:10:00	game	1

Watch Video

LiveStream **Video** **Forum**

Filter Video by Columns (Projection)

VideoID **Length** **VideoStatus** **Tag**

Check all video from desired perspectives

Filter Video by Rows (Selection)

Video Status:

blocked 

Find Video

Sign Out! Back to -> [Home Page](#) :)

VideoID **VideoLength** **VideoTag** **VideoStatus**

V-00000001	00:10:00	music	0
V-00000002	00:10:00	TV	0
V-00000003	00:10:00	meal	1
V-00000004	00:10:00	learnning	0
V-00000005	00:10:00	sport	0
V-00000006	00:10:00	game	1

JOIN Operation

AdminContent.php

// Join Query: For all videos, find the corresponding SponsorID, sponsor company's name and budget with their own videos' attributes (such as videoID, channelID and videoStatus) under user requirements
//Starts from line 363(function handleDisplayRequest())

```
SELECT srv.SponsorID, srv.VideoID, srv.ChannelID, sc.CompanyName, sc.Budget,  
rvc.VideoStatus  
FROM rvContain rvc, scSponsorRV srv, sponsorCompany sc  
WHERE rvc.VideoID = srv.VideoID AND rvc.ChannelID = srv.ChannelID AND  
srv.SponsorID = sc.SponsorID AND sc.Budget >= ". $min ." AND sc.Budget <= ". $max  
. "
```

// Join Query: For all channels, find the corresponding SponsorID, sponsor company's name and budget with their own videos' attributes (such as channelID and channelStatus) under user requirements
//Starts from line 363(function handleDisplayRequest())

```
SELECT spc.SponsorID, spc.ChannelID, sc.CompanyName, sc.Budget,  
c.ChannelStatus  
FROM channel c, SCSponsorChannel spc, sponsorCompany sc  
WHERE c.ChannelID = spc.ChannelID AND spc.SponsorID = sc.SponsorID  
AND sc.Budget >= ". $min ." AND sc.Budget <= ". $max ."
```

JOIN Screenshots



SponsorID	ChannelID	CompanyName	Budget	ChannelStatus
S-00000005	C-00000001	Pop Mart	1	1
S-00000004	C-00000002	Puma	2000	0
S-00000006	C-00000003	Pop Mart	100	0
S-00000001	C-00000004	Addidas	10000	1
S-00000002	C-00000004	Nike	10000	1
S-00000004	C-00000004	Puma	2000	1
S-00000005	C-00000004	Pop Mart	1	1
S-00000006	C-00000004	Pop Mart	100	1



SponsorID	VideoID	ChannelID	CompanyName	Budget	VideoStatus
S-00000005	V-00000001	C-00000001	Pop Mart	1	1
S-00000005	V-00000003	C-00000003	Pop Mart	1	1
S-00000005	V-00000004	C-00000004	Pop Mart	1	0

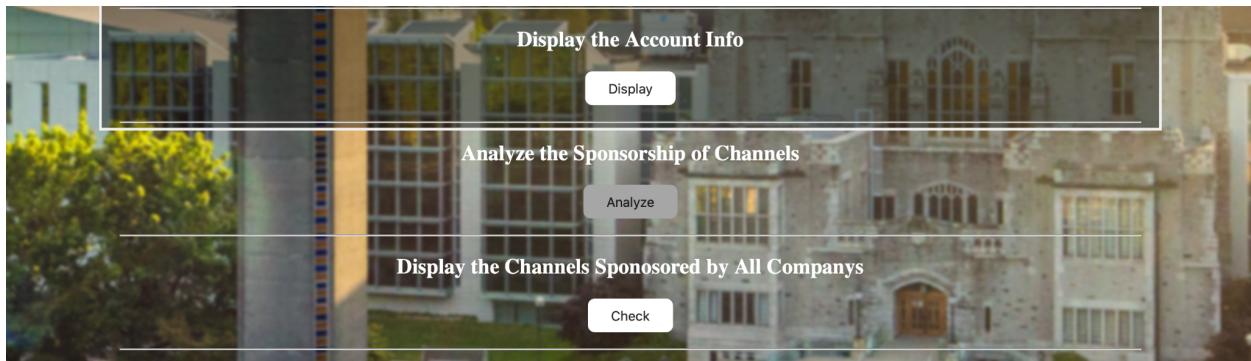
Aggregation with Group By Operation

AdminContent.php

```
// Aggregation with GROUP BY Query: for each sponsor company, analyze how many channels it sponsors, what is the max budget and what is the min budget.  
//Starts from line 400(function handleCountRequest())
```

```
SELECT CompanyName, Count(CompanyName), MAX(Budget), Min(Budget)  
FROM SCSponsorChannel spc, sponsorCompany sc  
WHERE spc.SponsorID = sc.SponsorID  
GROUP BY CompanyName
```

Aggregation with Group By Screenshots



CompanyName	Total Number	Max Budget	Min Budget
Pop Mart	4	100	1
Blue Navy	1		
Puma	2	2000	2000
Addidas	1	10000	10000
Nike	1	10000	10000

Aggregation with Having Operation

WatchPage.php

```
// Aggregation with Having Query: Display the tag and average timelong of all qualified  
videos (whose timelong is between the maxinput and mininput) with that tag in the  
LiveStream Filter, besides, for the qualified Tag must contain at least 2 such videos.  
// Starts from line 208 (function handleMaxRequest())
```

```
SELECT Tag, AVG(periodLength)  
FROM LivestreamMain  
WHERE PeriodLength < $maxinput  
GROUP BY tag  
HAVING COUNT(*) >1
```

```
SELECT Tag, AVG(periodLength)  
FROM LivestreamMain  
WHERE PeriodLength > $mininput  
GROUP BY tag  
HAVING COUNT(*) >1
```

```
SELECT Tag, AVG(periodLength)  
FROM LivestreamMain  
WHERE PeriodLength > $mininput AND PeriodLength < $maxinput  
GROUP BY tag  
HAVING COUNT(*) >1
```

Aggregation with Having Screenshots

The screenshot shows a web application interface titled "Watch LiveStream". At the top, there is a navigation bar with three items: "LiveStream" (highlighted in red), "Video & Channel", and "Forum". Below the navigation bar, a large banner displays a cityscape with a prominent clock tower. Overlaid on the banner is a form for displaying a live stream list with a specific tag. The form includes a dropdown menu set to "Jam", a "Display" button, and a section for filtering by average timelength. The filter section contains two checkboxes: "Longer Than:" with a value of 10 and "Shorter Than:" with a value of 69. A "Submit" button is located below these filters. Below the form, there is descriptive text about displaying tags based on average timelength and a "Display" button. At the bottom of the page, there is a "Sign Out! Back to -> Home Page:" link.

Watch LiveStream

LiveStream Video & Channel Forum

Display Livestream List with Given Tag

Jam

Display

Display the Tag and Average Timelong
contains at Least Two Qualified Livestreams

Longer Than: 10

Shorter Than: 69

Submit

Display

Display the tag with corresponding timelong of livestream
which is shorter than the average of period length of each kind of tag
(short filter)

Sign Out! Back to -> Home Page:

This screenshot shows the same web application interface as the previous one, but it appears to be displaying results or a different configuration. The main content area is identical to the first screenshot, featuring the cityscape banner, the "Display Livestream List with Given Tag" form, and the descriptive text about displaying tags based on average timelength. The "Display" button is visible. At the bottom of the page, there is a "Sign Out! Back to -> Home Page:" link.

Display

Display the Tag and Average Timelong
contains at Least Two Qualified Livestreams

Longer Than: []

Shorter Than: []

Submit

Display

Display the tag with corresponding timelong of livestream
which is shorter than the average of period length of each kind of tag
(short filter)

Sign Out! Back to -> Home Page:

Tag Average PeriodLength
jam 61

Watch LiveStream

LiveStream Video&Channel Forum

Display Livestream List with Given Tag

Jam ▾

Display

Display the Tag and Average Timelong
contains at Least Two Qualified Livestreams

Longer Than: 10 ▾
 Shorter Than: 80 ▾

Submit

Display the tag with corresponding timelong of livestream
which is shorter than the average of period length of each kind of tag
(short filter)

Display

Sign Out! Back to -> [Home Page](#))

Jam ▾

Display

Display the Tag and Average Timelong
contains at Least Two Qualified Livestreams

Longer Than: ▾
 Shorter Than: ▾

Submit

Display the tag with corresponding timelong of livestream
which is shorter than the average of period length of each kind of tag
(short filter)

Display

Sign Out! Back to -> [Home Page](#))

Tag Average PeriodLength
jam 64

NESTED AGGREGATION with GROUP BY Operation

WatchPage.php

```
// NESTED AGGREGATION with GROUP BY: Display the tag with corresponding  
timelong of the livestream which is shorter than the average of period length of each  
kind of tag  
// Starts from line 281 (function handleMINtimelongRequest())
```

```
SELECT Ism.tag, Ism.PeriodLength
```

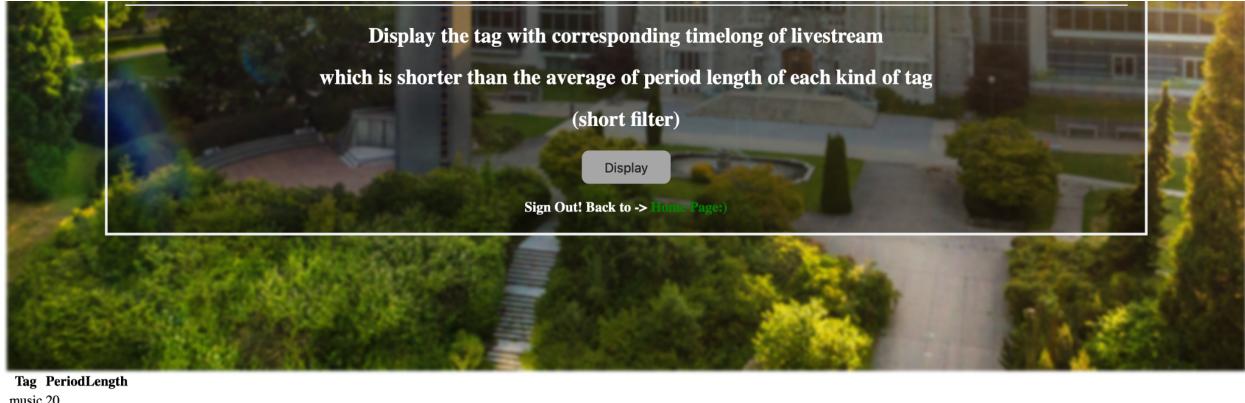
```
FROM LivestreamMain Ism
```

```
WHERE Ism.PeriodLength <= ALL(
```

```
    SELECT AVG(Ism2.PeriodLength)
```

```
    FROM LivestreamMain Ism2
```

```
    GROUP BY tag)
```



//An example of selection: return the Tag, LivestreamID, PeriodLength and BeginTime with the given Tag.

```
SELECT Tag, LiveStreamID, PeriodLength, BeginTime
```

```
FROM LivestreamMain
```

```
WHERE Tag = $tag
```

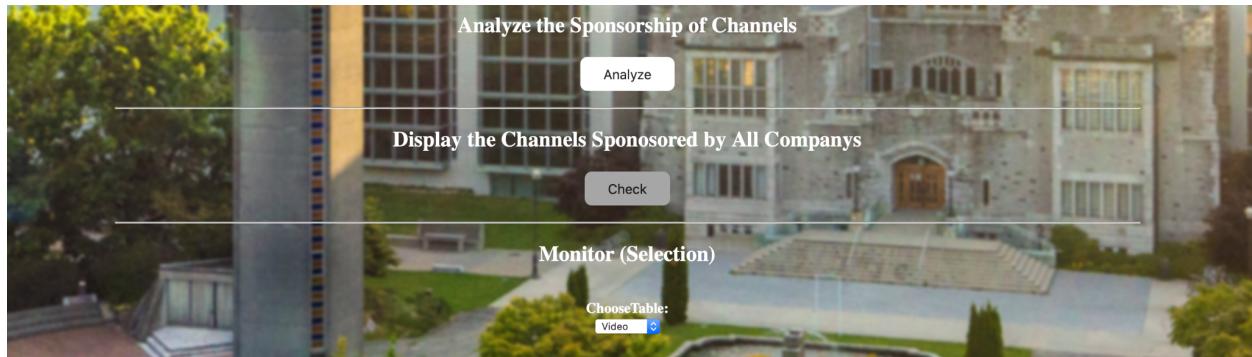
DIVISION Operation

AdminContent.php

// Division Query: find the channels sponsored by all sponsor companies
//Starts from line 386(function handleDisplaySponsor())

```
SELECT *
FROM channel c
WHERE NOT EXISTS
((SELECT sc.SponsorID
FROM sponsorCompany sc)
MINUS
(SELECT spc.SponsorID
FROM SCSponsorChannel spc
WHERE spc.ChannelID = c.ChannelID))
```

DIVISION Screenshots



Display the Channels Sponsored by All Companies

ChannelID **ChannelStatus** **Showlist**

ChannelID	ChannelStatus	Showlist
C-00000004	1	V-00000001, V-00000002

Other Operation

LoginPage.php

//An example of aggregation with count: return the result whether the input user email and password match the saved data in database

```
SELECT Count(1)
FROM accountOwn
=WHERE Email = "" . $user_email . "" AND AccountPassword = "" . $user_password . ""
```

//An example of aggregation with count: to return the result whether the input administrator ID matches the saved data in database

```
SELECT Count(1)
FROM adminiMain
WHERE AdminID = $admin_id
```

//An example of selection: return the name of administrator given the administrator ID

```
SELECT AdminstratorName
FROM adminiMain
WHERE AdminID = $admin_id
```

//An example of update: Update the workStatus of that administrator to 1

```
UPDATE adminiStatus SET WorkStatus = 1
WHERE AdminName = $name
```

HelpCentre.php

// An example of DELETE Operation Query: delete an help issue
DELETE FROM helpcenter WHERE HelpIssueID ="" . \$id_to_delete

WatchForum.php

// An example of selection: Display all the information of the given forum post and helpcenter
SELECT * FROM forum
SELECT * FROM helpcenter