# **CS353 Term Project**

CS353-7-MSDMS

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# Design Report

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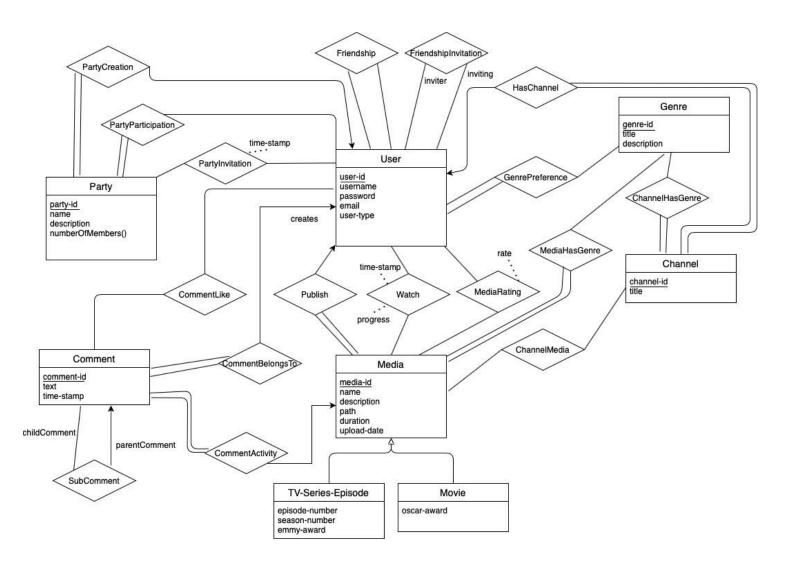
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# 1. Database Design

# 1.1. Revised E/R Diagram



#### 1.2. Table Schemas

Party(<u>party-id</u>, creator-id, name, description, numberOfMembers) creator-id is foreign key referencing User(user-id)

User(<u>user-id</u>, password, email, username, user-type)

Genre(genre-id, title, description)

Comment(comment-id, user-id, media-id text, time-stamp)
user-id is foreign key referencing User(user-id)
media-id is foreign key referencing Media(media-id)

Media(<u>media-id</u>, publish-user-id, name, description, path, duration, upload-date) publish-user-id is foreign key referencing User(user-id)

TV-Series-Episode(<u>media-id</u>, episode-number, season-number, emmy-award) media-id is foreign key referencing Media(media-id)

Movie(<u>media-id</u>, oscar-award) media-id is foreign key referencing Media(media-id)

Channel(<u>channel-id</u>, user-id, title)
user-id is foreign key referencing User(user-id)

# CommentLike(<u>user-id</u>, <u>comment-id</u>)

user-id is foreign key referencing User(user-id) comment-id is foreign key referencing Comment(comment-id)

# SubComment(child-id, parent-id)

parent-id is foreign key referencing Comment(comment-id) child-id is foreign key referencing Comment(comment-id)

#### GenrePreference(user-id, genre-id)

user-id is foreign key referencing User(user-id) genre-id is foreign key referencing Genre(genre-id)

#### MediaHasGenre(media-id, genre-id)

media-id is foreign key referencing Media(media-id) genre-id is foreign key referencing Genre(genre-id)

# ChannelHasGenre(channel-id, genre-id)

channel-id foreign key referencing Channel(channel-id) genre-id is foreign key referencing Genre(genre-id)

# ChannelMedia(<u>media-id</u>, <u>channel-id</u>)

media-id is foreign key referencing Media(media-id) channel-id foreign key referencing Channel(channel-id)

#### Watch(<u>user-id</u>, <u>media-id</u>, progress, time-stamp)

user-id is foreign key referencing User(user-id) media-id is foreign key referencing Media(media-id)

#### MediaRating(<u>user-id</u>, <u>media-id</u>, rate)

user-id is foreign key referencing User(user-id) media-id is foreign key referencing Media(media-id)

#### PartyParticipation(party-id, user-id)

party-id is foreign key referencing Party(party-id) user-id is foreign key referencing User(user-id)

# PartyInvitation(<u>party-id</u>, <u>user-id</u>, time-stamp)

party-id is foreign key referencing Party(party-id) user-id is foreign key referencing User(user-id)

#### Friendship(<u>friend1-id</u>, <u>friend2-id</u>)

friend1-id is foreign key referencing User(user-id) friend2-id is foreign key referencing User(user-id)

#### FriendshipInvitation(<u>inviter-id</u>, <u>invited-id</u>)

inviter-id is foreign key referencing User(user-id) invited-id is foreign key referencing User(user-id)

#### 1.3. Table Schemas SQL

```
CREATE TABLE Party (
      party-id VARCHAR(32) NOT NULL,
      creator-id VARCHAR (32) NOT NULL,
      name VARCHAR(64) NOT NULL,
      description VARCHAR(256),
      numberOfMembers INT(10),
      PRIMARY KEY(party-id)
      FOREIGN KEY(creator-id) REFERENCES User( user-id) on delete cascade )
ENGINE=INNODB;
CREATE TABLE User (
      user-id VARCHAR(32) NOT NULL,
      full-name VARCHAR (64),
      password VARCHAR (64) NOT NULL,
      email VARCHAR(128) NOT NULL,
      username VARCHAR(50) NOT NULL,
      user-type VARCHAR(20) NOT NULL,
      PRIMARY KEY(user-id))
ENGINE=INNODB;
CREATE TABLE Genre (
      genre-id VARCHAR(32) NOT NULL,
      title VARCHAR(64) NOT NULL,
      description VARCHAR(128),
      PRIMARY KEY(genre-id) )
ENGINE=INNODB;
CREATE TABLE Comment (
      comment-id VARCHAR(32) NOT NULL,
      user-id VARCHAR(32) NOT NULL,
      Media-id VARCHAR(32) NOT NULL,
      time-stamp TIMESTAMP,
      PRIMARY KEY(comment-id)
      FOREIGN KEY(user-id) REFERENCES User(user-id)
      FOREIGN KEY(media-id) REFERENCES Media(media-id) )
ENGINE=INNODB;
CREATE TABLE Media (
      media-id VARCHAR(32) NOT NULL,
```

```
publish-user-id VARCHAR(32) NOT NULL,
      name VARCHAR(64) NOT NULL,
      description VARCHAR(256),
      path VARCHAR(256) NOT NULL,
      duration INT(10) NOT NULL,
      upload-date DATE NOT NULL,
      PRIMARY KEY(media-id)
      FOREIGN KEY(publish-user-id) REFERENCES User(user-id) on delete cascade)
      ENGINE=INNODB;
CREATE TABLE TV-Series-Episode (
      media-id VARCHAR(32) NOT NULL,
      episode-number INT NOT NULL,
      season-number INT NOT NULL,
      emmy-award DATE,
      PRIMARY KEY(media-id)
      FOREIGN KEY(media-id) REFERENCES Media(media-id) on delete cascade )
ENGINE=INNODB;
CREATE TABLE Movie (
      media-id VARCHAR(32) NOT NULL,
      Oscar-award DATE,
      PRIMARY KEY(media-id)
      FOREIGN KEY(media-id) REFERENCES Media(media-id) on delete cascade )
ENGINE=INNODB;
CREATE TABLE Channel(
      channel-id VARCHAR(32) NOT NULL,
      user-id VARCHAR(32) NOT NULL,
      title VARCHAR(64),
      PRIMARY KEY(channel-id)
      FOREIGN KEY(user-id) REFERENCES User(user-id) )
ENGINE=INNODB;
CREATE TABLE CommentLike (
      user-id VARCHAR(32) NOT NULL,
      comment-id VARCHAR (32) NOT NULL,
      PRIMARY KEY( user-id, comment-id)
      FOREIGN KEY(user-id) REFERENCES User(user-id)
      FOREIGN KEY(comment-id) REFERENCES Comment(comment-id)
) ENGINE=INNODB;
```

# CREATE TABLE SubComment( parent-id VARCHAR(32) NOT NULL, child-id VARCHAR(32) NOT NULL,

PRIMARY KEY(parent-id, current-id)

FOREIGN KEY(parent-id) REFERENCES Comment(comment-id)

FOREIGN KEY(child-id) REFERENCES Comment(comment-id)

) ENGINE=INNODB;

#### CREATE TABLE GenrePreference(

user-id VARCHAR(32) NOT NULL,

genre-id VARCHAR(32) NOT NULL,

PRIMARY KEY(user-id, genre-id)

FOREIGN KEY(user-id) REFERENCES User(user-id)

FOREIGN KEY(genre-id) REFERENCES Genre(genre-id)

) ENGINE=INNODB;

# CREATE TABLE MediaHasGenre(

media-id VARCHAR(32) NOT NULL,

genre-id VARCHAR(32) NOT NULL,

PRIMARY KEY(media-id, genre-id)

FOREIGN KEY(media-id) REFERENCES Media(media-id)

FOREIGN KEY(genre-id) REFERENCES Genre(genre-id)

) ENGINE=INNODB;

#### CREATE TABLE ChannelHasGenre(

channel-id VARCHAR(32) NOT NULL,

genre-id VARCHAR(32) NOT NULL,

PRIMARY KEY(channel-id, genre-id)

FOREIGN KEY(channel-id) REFERENCES Channel(channel-id)

FOREIGN KEY(genre-id) REFERENCES Genre(genre-id)

) ENGINE=INNODB;

#### CREATE TABLE ChannelMedia(

media-id VARCHAR(32) NOT NULL,

channel-id VARCHAR(32) NOT NULL,

PRIMARY KEY(media-id, channel-id)

FOREIGN KEY(media-id) REFERENCES Media(media-id)

FOREIGN KEY(channel-id) REFERENCES Channel(channel-id)

) ENGINE=INNODB;

# CREATE TABLE Watch( user-id VARCHAR(32) NOT NULL, media-id VARCHAR(32) NOT NULL, Progress INT NOT NULL, time-stamp TIMESTAMP NOT NULL, PRIMARY KEY(user-id, media-id) FOREIGN KEY(user-id) REFERENCES User(user-id) FOREIGN KEY(media-id) REFERENCES Media(media-id) ) ENGINE=INNODB; CREATE TABLE MediaRating( user-id VARCHAR(32) NOT NULL, media-id VARCHAR(32) NOT NULL, rate INT NOT NULL, PRIMARY KEY(user-id, media-id) FOREIGN KEY(user-id) REFERENCES User(user-id) FOREIGN KEY(media-id) REFERENCES Media(media-id) ) ENGINE=INNODB; CREATE TABLE PartyParticipation( party-id VARCHAR(32) NOT NULL, user-id VARCHAR(32) NOT NULL, PRIMARY KEY(party-id, user-id) FOREIGN KEY(party-id) REFERENCES Party(party-id) FOREIGN KEY(user-id) REFERENCES User(user-id) ) ENGINE=INNODB; CREATE TABLE PartyInvitation( party-id VARCHAR(32) NOT NULL, user-id VARCHAR(32) NOT NULL, time-stamp TIMESTAMP NOT NULL, PRIMARY KEY(party-id, user-id) FOREIGN KEY(party-id) REFERENCES Party(party-id) FOREIGN KEY(user-id) REFERENCES User(user-id) ) ENGINE=INNODB; CREATE TABLE Friendship( friend1-id VARCHAR(32) NOT NULL, Friend2-id VARCHAR(32) NOT NULL, PRIMARY KEY(friend1-id, friend2-id)

FOREIGN KEY(friend1-id) REFERENCES User( user-id) FOREIGN KEY(friend2-id) REFERENCES User( user-id)

) ENGINE=INNODB;

#### 8

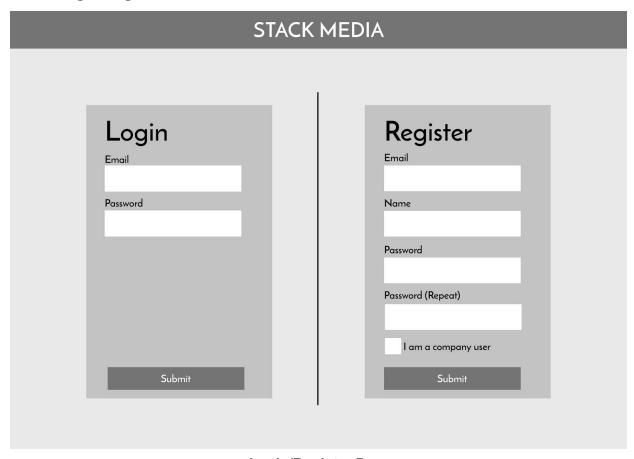
# CREATE TABLE FriendshipInvitation(

Inviter-id VARCHAR(32) NOT NULL,
Invited-id VARCHAR(32) NOT NULL,
PRIMARY KEY(Inviter-id, Invited-id)
FOREIGN KEY(Inviter-id) REFERENCES User( user-id)
FOREIGN KEY(invited-id) REFERENCES User( user-id)
) ENGINE=INNODB;

# 2. UI Design and Corresponding SQL Statements

Our general UI design was inspired by Youtube, Spotify and Netflix.

# 2.1 Login Page UI



# Login/Register Page

In this page, the user can login to the system or he/she can register by specifying his/her information along with the user type.

# 2.2 Login Page UI Corresponding SQL Statements

Login
 SELECT
 \*
 FROM
 User
 WHERE
 email = emailUIText AND password = passwordUIText

# • Register

First check if the user already exists in the system

**SELECT** 

\*

**FROM** 

User

WHERE

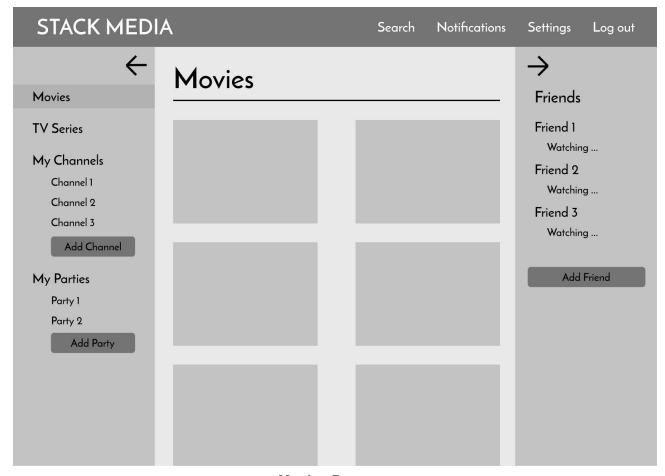
email = emailUIText OR name = nameUIText

if the query is empty

**INSERT INTO User** 

VALUES (getNextUserID(), nameUIText, passwordUIText, isCompanyUserRadioInput) getNextUserID() is server function, returns unique id.

# 2.3 Movies Page UI



**Movies Page** 

In this page, movies are presented to the user according to his/her genre preferences. The user can choose a movie and start watching.

# 2.4 Movies Page UI Corresponding SQL Statements

```
• Finding channels of the client
SELECT
      title AS channelName
      channel-id
FROM
      User INNER JOIN Channel ON Channel.user-id = User.user-id
   • Displaying all movies based on genre preference
SELECT
      M.*
FROM
      Media M INNER JOIN MediaHasGenre MHG ON M.media-id = MHG.media-id
WHERE
      MHG.genre-id in (
      SELECT
             genre-id
      FROM
             GenrePreference
      WHERE
             user-id = clientID
)

    Adding new party

INSERT INTO
      Party
VALUES
      (party-id, main-user-id, desired-name, desired-description, 0)
   • Sending friend request
INSERT INTO
      FriendshipInvitation
VALUES
      (main-user-id, wanted-friend-id)
   • Friend activities
SELECT
      F.friend2-id, M.name
FROM
```

Friendship F, Watch W, Media M

#### WHERE

F.friend1-id = main-user-id and Watch.user-id = F.friend2-id and W.media-id = M.media-id

# Deleting a party

DELETE FROM

Party

WHERE

creator-id = main-user-id and party-id = deleted-party-id

#### Removing a friend

**DELETE FROM** 

Friendship

WHERE

friend1-id = main-user-id and friend2-id = deleted-friend-id

#### • Accepting friend request through notifications

**DELETE FROM** 

FriendshipInvitation

WHERE

invited-id = main-user-id and inviter-id = rejected-friend-id

**INSERT INTO** 

Friendship

**VALUES** 

(main-user-id, accepted-friend-id)

#### • Rejecting friend request through notifications

**DELETE FROM** 

FriendshipInvitation

WHERE

invited-id = main-user-id and inviter-id = rejected-friend-id

# • Accepting party invitation through notifications

DELETE FROM

PartyInvitation

WHERE

user-id = user-id-variable and party-id = party-id-variable

**INSERT INTO** 

PartyParticipation

**VALUES** 

(party-id-variable, user-id, variable)

# • Rejecting party invitation through notifications

**DELETE FROM** 

PartyInvitation

WHERE

user-id = user-id-variable and party-id = party-id-variable

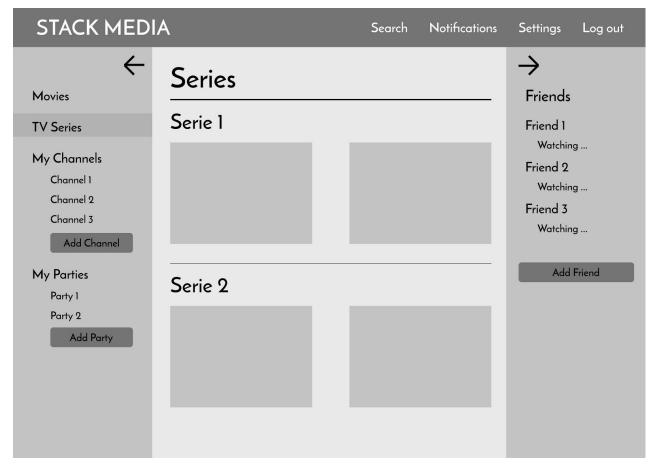
# • Removing a channel

**DELETE FROM Channel** 

WHERE

Channel.channel-id = selectedChannelID AND Channel.user-id = clientUserID

# 2.5 Series Page UI



**Series Page** 

In this page, series are presented to the user according to his/her genre preferences. The user can choose a movie and start watching.

# 2.6 Series Page UI Corresponding SQL Statements

```
• Finding channels of the client
SELECT
      title AS channelName
      channel-id
FROM
      User INNER JOIN Channel ON Channel.user-id = User.user-id
   • Displaying all the tv-shows based on genre
SELECT
      M.*
FROM
      Media M INNER JOIN MediaHasGenre MHG ON M.media-id = MHG.media-id
WHERE
      MHG.genre-id in (
      SELECT
             genre-id
      FROM
             GenrePreference
      WHERE
             user-id = clientID
)
   • Creating a new party
INSERT INTO
      Party
VALUES
      (party-id, main-user-id, desired-name, desired-description, 0)
   • Sending a friend request
INSERT INTO
      FriendshipInvitation
VALUES
      (main-user-id, wanted-friend-id)
   • Friend activities
SELECT
      F.friend2-id, M.name
FROM
      Friendship F, Watch W, Media M
```

#### WHERE

F.friend1-id = clientID and Watch.user-id = F.friend2-id and W.media-id = M.media-id

# Removing a party

DELETE FROM

Party

WHERE

creator-id = main-user-id and party-id = deleted-party-id

#### Removing a friend

**DELETE FROM** 

Friendship

WHERE

friend1-id = main-user-id and friend2-id = deleted-friend-id

#### Accepting a friend request through notifications

**DELETE FROM** 

FriendshipInvitation

WHERE

invited-id = main-user-id and inviter-id = rejected-friend-id

**INSERT INTO** 

Friendship

**VALUES** 

(main-user-id, accepted-friend-id)

#### • Rejecting a friend request through notifications

**DELETE FROM** 

FriendshipInvitation

WHERE

invited-id = main-user-id and inviter-id = rejected-friend-id

# • Accepting a party invitation through notifications

DELETE FROM

PartyInvitation

WHERE

user-id = user-id-variable and party-id = party-id-variable

**INSERT INTO** 

PartyParticipation

**VALUES** 

(party-id-variable, user-id, variable)

# • Rejecting a party invitation through notifications

**DELETE FROM** 

PartyInvitation

WHERE

user-id = user-id-variable and party-id = party-id-variable

# • Removing a channel

**DELETE FROM Channel** 

WHERE

Channel.channel-id = selectedChannelID AND Channel.user-id = clientUserID

# 2.7 Channel Page UI



# **Channel Page**

In this page, the user can pick add/delete genres for the channel, and add movies to the channel. Also he/she can see/watch added/suggested movies. Suggestions are handled by the system according to the selected genres.

# 2.8 Channel Page UI Corresponding SQL Statements

# • Finding channels of the client

**SELECT** 

title AS channelName

channel-id

FROM

User INNER JOIN Channel ON Channel.user-id = User.user-id

# • Finding every movie of a channel that belongs to the client

**SELECT** 

Media.\*

FROM

Media INNER JOIN ChannelMedia ON Media.media-id = ChannelMedia.media-id

WHERE

ChannelMedia.channel-id = curChannelID

(curChannelID is the channel selected on the menu)

#### Creating a new party

**INSERT INTO** 

Party

VALUES

(party-id, main-user-id, desired-name, desired-description, 0)

# Sending a friend request

**INSERT INTO** 

FriendshipInvitation

**VALUES** 

(main-user-id, wanted-friend-id)

#### Friend activities

**SELECT** 

F.friend2-id, M.name

**FROM** 

Friendship F, Watch W, Media M

WHERE

F.friend1-id = main-user-id and Watch.user-id = F.friend2-id and

W.media-id = M.media-id

#### Removing a party

**DELETE FROM** 

Party

WHERE

creator-id = main-user-id and party-id = deleted-party-id

# • Removing a friend

**DELETE FROM** 

Friendship

WHERE

friend1-id = main-user-id and friend2-id = deleted-friend-id

#### Accepting a friend request through notifications

**DELETE FROM** 

FriendshipInvitation

WHERE

invited-id = main-user-id and inviter-id = rejected-friend-id

**INSERT INTO** 

Friendship

VALUES

(main-user-id, accepted-friend-id)

# • Rejecting a friend request through notifications

**DELETE FROM** 

FriendshipInvitation

WHERE

invited-id = main-user-id and inviter-id = rejected-friend-id

#### Accepting a party invitation through notifications

**DELETE FROM** 

PartyInvitation

WHERE

user-id = user-id-variable and party-id = party-id-variable

**INSERT INTO** 

PartyParticipation

VALUES

(party-id-variable, user-id, variable)

#### • Rejecting a party invitation through notifications

DELETE FROM

PartyInvitation

WHERE

user-id = user-id-variable and party-id = party-id-variable

#### • Removing a channel

**DELETE FROM Channel** 

WHERE

Channel.channel-id = selectedChannelID AND Channel.user-id = clientUserID

#### • Finding suggested media based on channel genre

```
SELECT
M.*

FROM
Media M INNER JOIN MediaHasGenre MHG ON MHG.media-id = M.media-id
WHERE
MHG.genre-id in (
SELECT
genre-id
FROM
ChannelHasGenre
WHERE
channel-id = clientCurChannelID
)
```

#### • Editing genre of a channel

//deletion

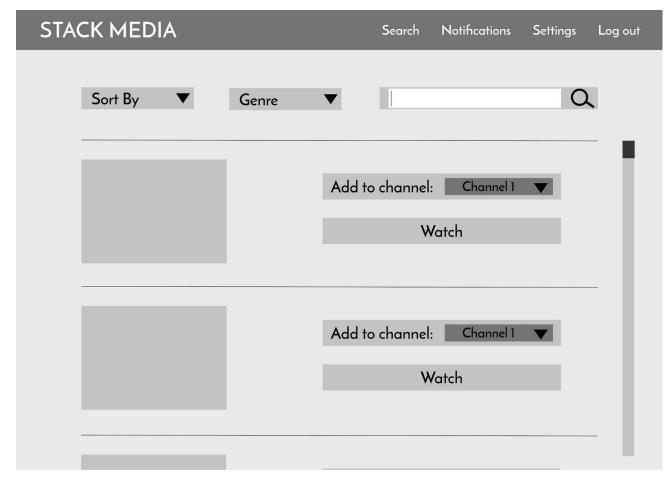
DELETE FROM ChannelHasGenre

**WHERE** 

channel-id = curChannelID AND genre-id = genreIDToDelete

// to insert new genre
INSERT INTO ChannelHasGenre
VALUES( curChannelID, genreIDToAdd)

# 2.9 Search Page UI



Search Page - Standard User

In this page, the user can search for movies by specifying genre and a media name. Also he/she can sort the results. Next, he/she can add the media to channels or directly watch.

# 2.10 Search Page UI Corresponding SQL Statements

#### • Searching media

```
FROM
Media M
WHERE
DIFFERENCE( name, movieNameUIText) = 4 AND genreUISELECTION in (
SELECT
Genre.title
```

```
FROM
                    HasGenre INNER JOIN Genre ON HasGenre.genre-id = Genre.genre-id
             WHERE
                    M.media-id = HasGenre.media-id
      )
ORDER BY
      sortUISelection DESC
   • Adding media to a channel after searching
INSERT INTO ChannelMedia
VALUES
      ( media-id,
      channel-id);
   • Getting every available genre
SELECT
      genre-id,
      title
FROM
      Genre

    Accepting a friend request through notifications

DELETE FROM
      FriendshipInvitation
WHERE
      invited-id = main-user-id and inviter-id = rejected-friend-id
INSERT INTO
      Friendship
VALUES
      (main-user-id, accepted-friend-id)
   • Rejecting a friend request through notifications
DELETE FROM
      FriendshipInvitation
WHERE
      invited-id = main-user-id and inviter-id = rejected-friend-id

    Accepting a party invitation through notifications

DELETE FROM
      PartyInvitation
WHERE
      user-id = user-id-variable and party-id = party-id-variable
```

**INSERT INTO** 

PartyParticipation

**VALUES** 

(party-id-variable, user-id, variable)

# • Rejecting a party invitation through notifications

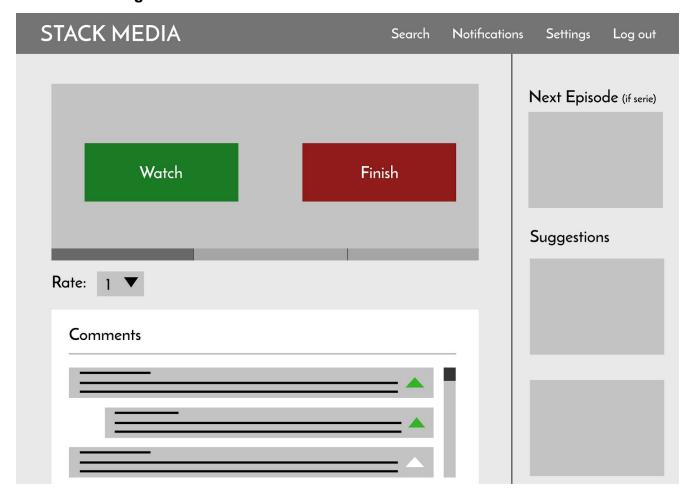
**DELETE FROM** 

PartyInvitation

WHERE

user-id = user-id-variable and party-id = party-id-variable

# 2.11 Watch Page UI



#### **Watch Page**

In this page, the user can watch a media by using the watch and finish buttons, also he/she can rate the media and leave a comment. At the right side, the system suggests the user to watch similar media and presents the next episode if this is a series.

# 2.12 Watch Page UI Corresponding SQL Statements

# • Accepting a friend request through notifications

DELETE FROM

FriendshipInvitation

WHERE

invited-id = main-user-id and inviter-id = rejected-friend-id

**INSERT INTO** 

Friendship

**VALUES** 

(main-user-id, accepted-friend-id)

# • Rejecting a friend request through notifications

**DELETE FROM** 

FriendshipInvitation

WHERE

invited-id = main-user-id and inviter-id = rejected-friend-id

# • Accepting a party invitation through notifications

**DELETE FROM** 

PartyInvitation

WHERE

user-id = user-id-variable and party-id = party-id-variable

**INSERT INTO** 

PartyParticipation

**VALUES** 

(party-id-variable, user-id, variable)

# • Rejecting a party invitation through notifications

**DELETE FROM** 

PartyInvitation

WHERE

user-id = user-id-variable and party-id = party-id-variable

#### • Rating of the media in display

**SELECT** 

M.media-id

AVG(rate)

**FROM** 

```
Media M INNER JOIN MediaRating ON M.media-id = MediaRating.media-id
GROUP BY
      M.media-id
   • Comments belonging to the media in display
SELECT
      C.*
FROM
      Comment C
WHERE
      media-id = curMediaID
ORDER BY
      time-stamp DESC
   • Comments of a comment
(by DB design, we only allow a comment to have only a single parent as of in Youtube. This is a
design limitation we have made. We do think that a Reddit style of comment threads are
unreadable and messy.)
SELECT
      C.*
FROM
      Comment C
WHERE
      comment-id in (
```

### Media suggestions based on media genre that is in display

**SELECT** 

)

M.name

SELECT

**FROM** 

WHERE

child-id

SubComment

FROM

GenrePreference GP, HasGenre HG, Media M

parent-id = selectedCommentID

WHERE

GP.user-id = main-user-id and GP.genre-id = HG.genre-id and HG.media-id = M.media-id

```
• Leaving a rating to the media in display
```

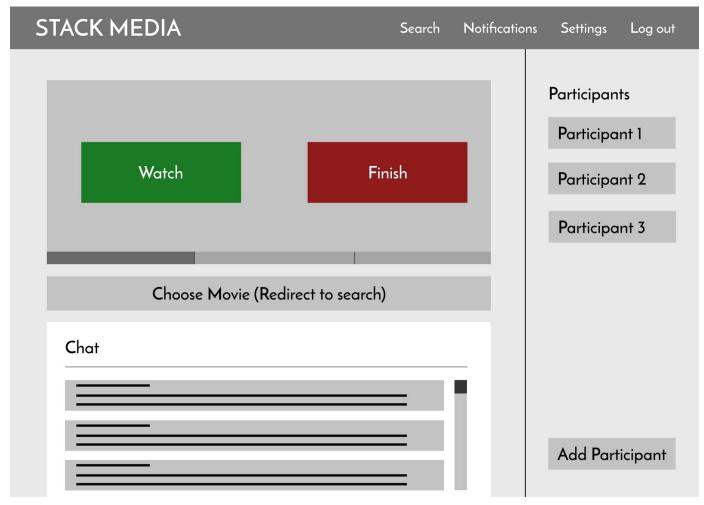
Check if user has rating

WHERE

```
SELECT
FROM
      MediaRating
WHERE
      Media-id = curMediaID AND user-id = clientID
If there is not a rating by the user before
INSERT INTO MediaRating
VALUES
      ( clientUserID,
      curMovieID,
      selectedRating);
If there is a rating by the client
UPDATE MediaRating
SET rating = selectedRating
WHERE
      media-id = curMediaID AND user-id = clientID
   • Getting watch progress of a client for the media in display
SELECT
      progress
FROM
      Watch
WHERE
      media-id = curMediaID AND user-id = clientUserID
   • Watch button press to simulate watch action
UPDATE Watch
SET progress = cachedProgress + 1, time-stamp = TIMESTAMP()
WHERE
      Media-id = curMediaID AND user-id = clientUserID
   • Finish button press to simulate finish action
UPDATE Watch
SET progress = cachedProgress + 1, time-stamp = TIMESTAMP()
```

Media-id = curMediaID AND user-id = clientUserID

# 2.13 Party Page UI



**Party Page** 

In this page, the creator of the party can select a movie and make the participants watch by using watch and finish buttons. The creator can also add/delete participants to the party. At the bottom, there is a chat for all participants.

# 2.14 Party Page UI Corresponding SQL Statements

# • Adding a participant to the party

**INSERT INTO** 

PartyParticipation

**VALUES** 

(party-id-variable, user-id, variable)

# • Removing a participant from the party

#### DELETE FROM

PartyParticipation

WHERE

user-id = user-id-variable and party-id = party-id-variable

# • Accepting a friend request through notifications

**DELETE FROM** 

FriendshipInvitation

WHERE

invited-id = main-user-id and inviter-id = rejected-friend-id

**INSERT INTO** 

Friendship

**VALUES** 

(main-user-id, accepted-friend-id)

# • Rejecting a friend request through notifications

DELETE FROM

FriendshipInvitation

WHERE

invited-id = main-user-id and inviter-id = rejected-friend-id

#### Accepting a party invitation through notifications

DELETE FROM

PartyInvitation

WHERE

user-id == user-id-variable and party-id == party-id-variable

**INSERT INTO** 

PartyParticipation

**VALUES** 

(party-id-variable, user-id, variable)

#### Rejecting a party invitation through notifications

**DELETE FROM** 

PartyInvitation

WHERE

user-id == user-id-variable and party-id == party-id-variable

#### • Getting watch progress for the current client

SELECT

progress

**FROM** 

Watch

WHERE

media-id = curMediaID AND user-id = clientUserID

# • Watch button press to simulate watch action

**UPDATE Watch** 

SET progress = cachedProgress + 1, time-stamp = TIMESTAMP() WHERE

Media-id = curMediaID AND user-id = clientUserID

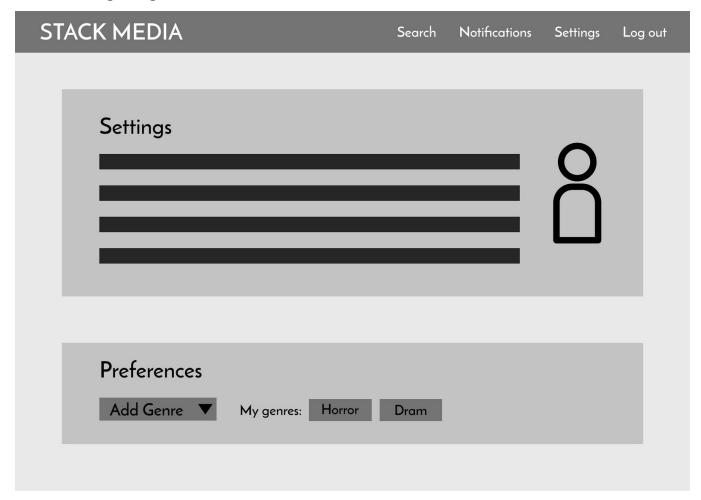
# • Finish button press to simulate finish action

**UPDATE Watch** 

SET progress = cachedProgress + 1, time-stamp = TIMESTAMP() WHERE

Media-id = curMediaID AND user-id = clientUserID

# 2.15 Settings Page UI



**Settings Page** 

In this page, the user can see/change his/her settings, and also add/delete genres for specialized suggestions.

# 2.16 Settings Page UI Corresponding SQL Statements

# • Accepting a friend request through notifications

**DELETE FROM** 

FriendshipInvitation

WHERE

invited-id = main-user-id and inviter-id = rejected-friend-id

**INSERT INTO** 

Friendship

#### **VALUES**

(main-user-id, accepted-friend-id)

# Refusing a friend request through notifications

#### **DELETE FROM**

FriendshipInvitation

WHERE

invited-id = main-user-id and inviter-id = rejected-friend-id

#### Accepting a party invitation through notifications

**DELETE FROM** 

PartyInvitation

WHERE

user-id = user-id-variable and party-id = party-id-variable

**INSERT INTO** 

PartyParticipation

VALUES

(party-id-variable, user-id, variable)

#### • Refusing a party invitation through notifications

**DELETE FROM** 

PartyInvitation

WHERE

user-id = user-id-variable and party-id = party-id-variable

#### • Adding genre preference for suggestions

INSERT INTO GenrePreference

**VALUES** 

( curUserID, genreID );

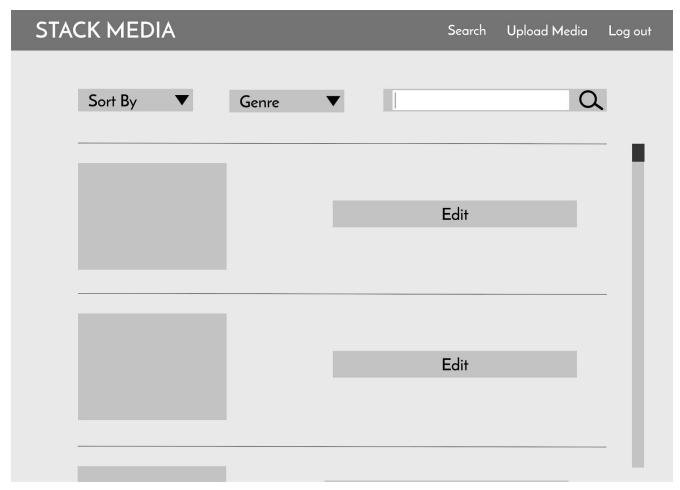
# • Removing a genre preference for suggestions

**DELETE FROM GenrePreference** 

WHERE

user-id = clientUserID AND genre-id = selectedGenreID

# 2.17 Search Page Company UI



Search Page - Company User

In this page, the user can search for movies by specifying genre and a movie name. Also he/she can sort the results. Next, he/she can edit the media (the button redirects to Upload/Edit Media Page).

# 2.18 Search Page Company UI Corresponding SQL Statements

# • Searching media

```
SELECT

*

FROM

Media M

WHERE

DIFFERENCE( name, movieNameUIText) = 4 AND genreUISELECTION in (

SELECT
```

```
Genre.title
            FROM
                   HasGenre INNER JOIN Genre ON HasGenre.genre-id = Genre.genre-id
            WHERE
                   M.media-id = HasGenre.media-id
ORDER BY
      sortUISelection DESC
   • Editing an existing media
// updating
UPDATE Media
SET
      name = nameArg,
      description =descArg,
      path = mediaLinkArg,
      duration = durationArg
WHERE
      Media.media-id = selectedMediaID
// deleting
DELETE FROM Media
WHERE
      Media.media-id = selectedMediaID
```

# 2.19 Upload/Edit Media Company Page UI

STACK MEDIA		Search	Upload Media	Log out
Name	L			
Genre	Genre		▼	
Description	I			
Series Name (left blank if not serie)	1			
Season (left blank if not serie)	I			
Episode (left blank if not serie)	I			
Added genres:	Horror	Dro	ım	
Submit				

# **Upload/Edit Media Page**

The company user can upload a new media by specifying its attributes, and also he/she can edit the attributes of a selected media (the edit button in the search page redirects here for edit).

# 2.20 Upload/Edit Media Company Page UI Corresponding SQL Statements

# • Uploading a media

# 

```
durationUIText,
      TIMESTAMP());
INSERT INTO Movie
VALUES
      ( movieID, NULL );
movieID is cached on the server.
tv-show
INSERT INTO Media
VALUES
      ( getUniqueMediaID(),
      curUserID,
      seriesUINameText,
      mediaNameUIText,
      descriptionUIText,
      pathUIText,
      durationUIText,
      TIMESTAMP());
INSERT INTO TV-Series-Episode
VALUES
      ( mediaID,
      episodeUIText,
      seasonUIText,
      NULL);
```