Tasnim Nehal (tn1078) Project Summary

Link: https://github.com/TasNehal/Finstagram

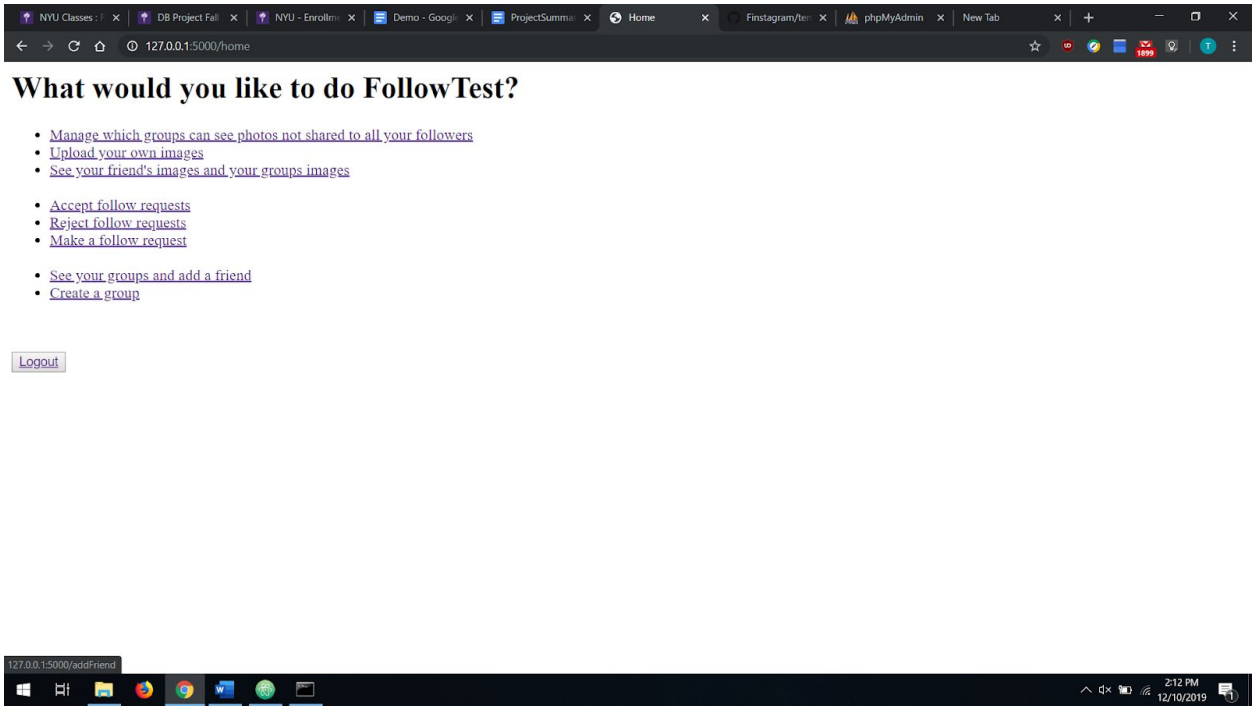
Date of last commit to repository: 12/10/19

Number of Team members: Solo project

Names and netIDs of Team members (one per line): tn1078

(skip to Feature 4-6 for the extra features, Features 1-3 focus on the core features)

Default home page:



Feature 1 + Feature 2:

1. View visible photos + View further photo info (implemented this in one page)

2. Had three queries for this, one to pick out all the relevant photo information for the current user (%s), a query to get all the tags and the relevant data gets picked out through if conditions in the jinja template of templates/gallery.html and a third query to get all the likes where the likes for an associated photo get picked apart by if conditions in the jinja template of the same html file.

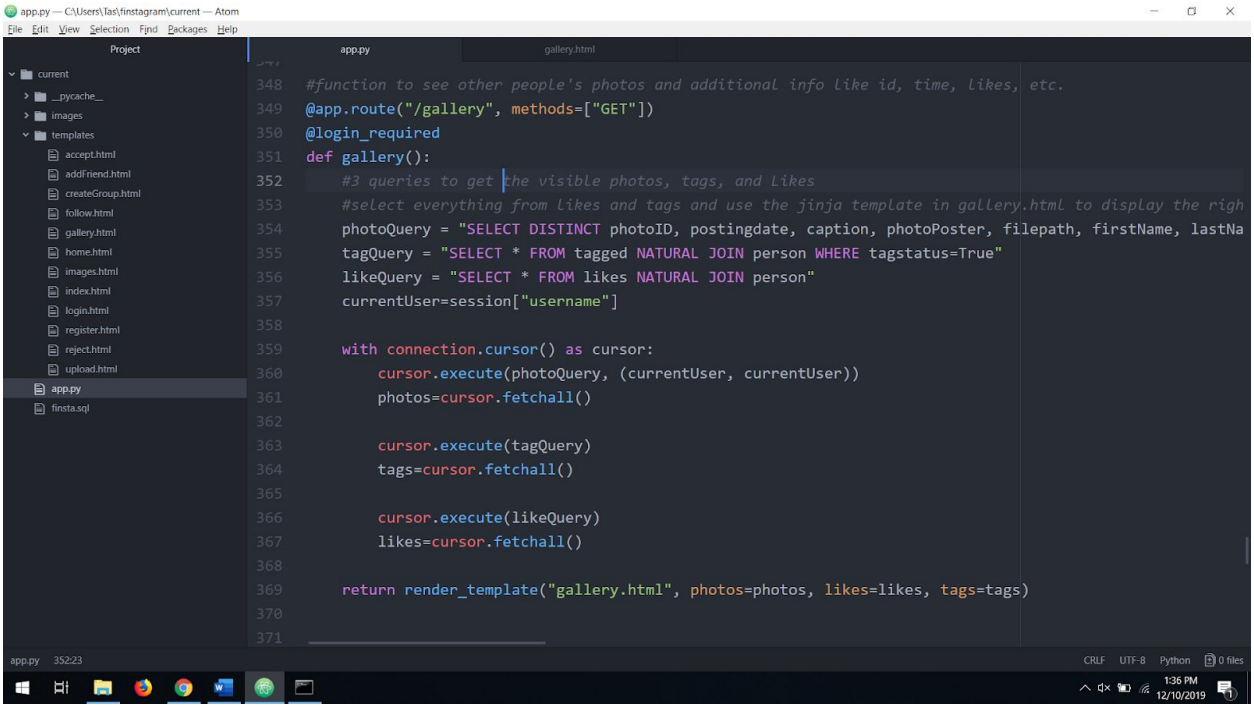
photoQuery = "SELECT DISTINCT photoID, postingdate, caption, photoPoster, filepath, firstName,

lastName FROM photo INNER JOIN person ON person.username = photo.photoPoster WHERE photoPoster IN (SELECT username_followed FROM follow WHERE followstatus = 1 AND username_follower=%s) OR photoID IN (SELECT photoID FROM sharedwith NATURAL JOIN belongto WHERE member_username=%s) ORDER BY postingdate DESC"

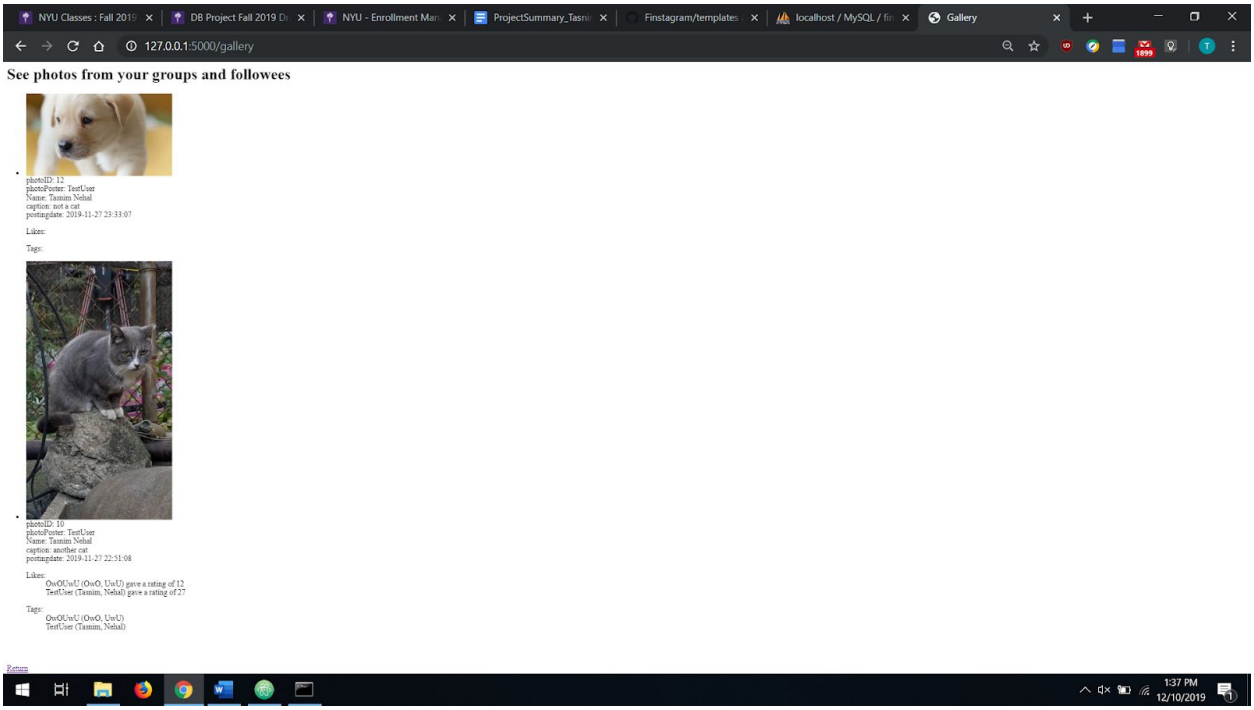
tagQuery = "SELECT * FROM tagged NATURAL JOIN person WHERE tagstatus=True"

likeQuery = "SELECT * FROM likes NATURAL JOIN person"

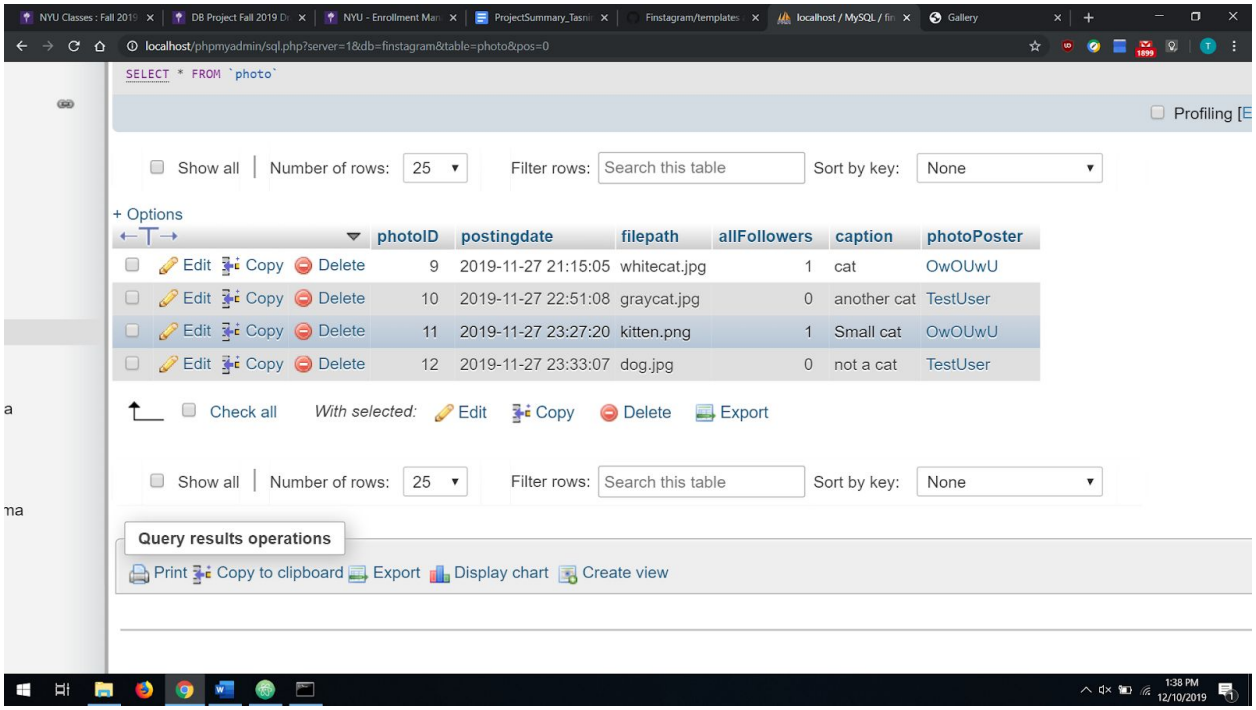
3. The html file for this page is found under templates/gallery.html and the relevant code is found under lines 348-369 of app.py:

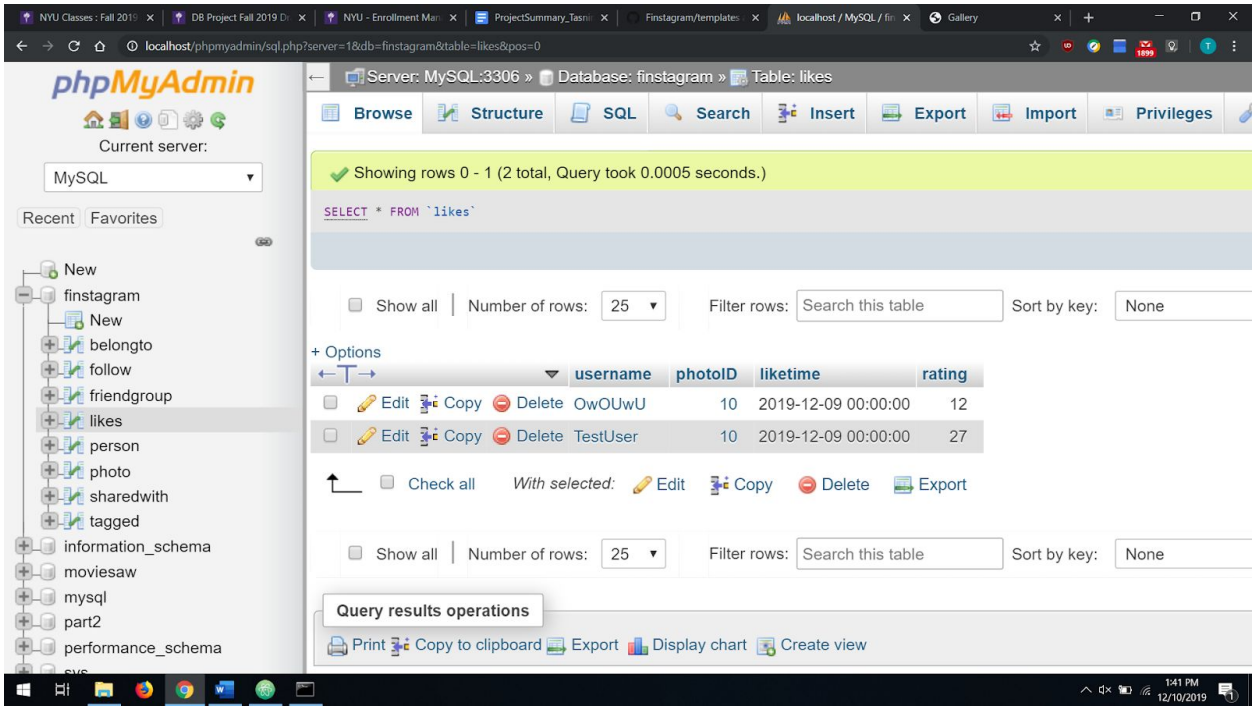


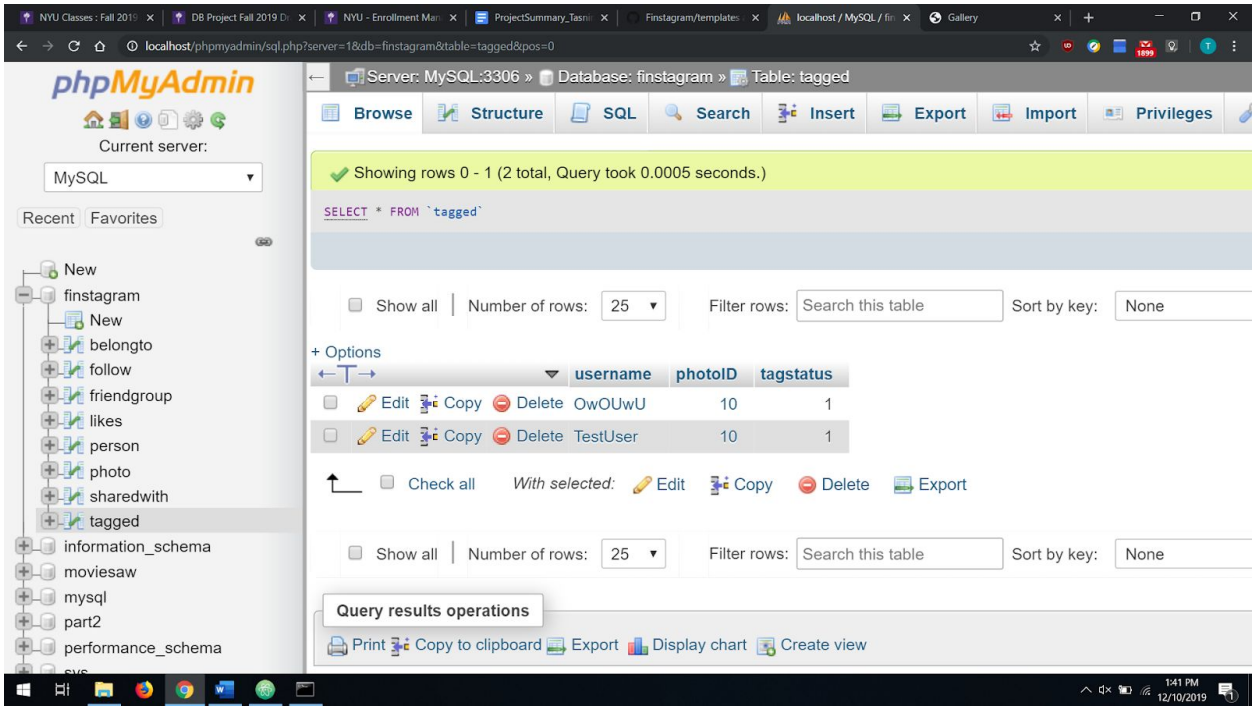
4. This is the gallery screen showing photos for user FollowTest with a photo with no likes and tags and a photo with 2 likes and 2 tags. This can be found by going through the link “See your friend’s images and your groups images” on the home page after logging in.



This is the relevant tables (Note my photoId's 1-8 are missing in the screenshots because I deleted those rows while testing beforehand. Deleting the database and starting over with the exact same data will fix this if that is an issue)


localhost/phpmyadmin/sql.php?server=1&db=finstagram&table=photo&pos=0
SELECT * FROM `photo`
Profiling
Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None
+ Options
photoID | postingdate | filepath | allFollowers | caption | photoPoster
Edit Copy Delete 9 2019-11-27 21:15:05 whitecat.jpg 1 cat OwOUwU
Edit Copy Delete 10 2019-11-27 22:51:08 graycat.jpg 0 another cat TestUser
Edit Copy Delete 11 2019-11-27 23:27:20 kitten.png 1 Small cat OwOUwU
Edit Copy Delete 12 2019-11-27 23:33:07 dog.jpg 0 not a cat TestUser
Check all With selected: Edit Copy Delete Export
Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None
Query results operations
Print Copy to clipboard Export Display chart Create view


localhost/phpmyadmin/sql.php?server=1&db=finstagram&table=likes&pos=0
phpMyAdmin
Current server:
MySQL
Recent Favorites
New
finstagram
New
belongto
follow
friendgroup
likes
person
photo
sharedwith
tagged
information_schema
moviesaw
mysql
part2
performance_schema
Server: MySQL:3306 » Database: finstagram » Table: likes
Browse Structure SQL Search Insert Export Import Privileges
Showing rows 0 - 1 (2 total, Query took 0.0005 seconds.)
SELECT * FROM `likes`
Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None
+ Options
username | photoID | liketime | rating
Edit Copy Delete OwOUwU 10 2019-12-09 00:00:00 12
Edit Copy Delete TestUser 10 2019-12-09 00:00:00 27
Check all With selected: Edit Copy Delete Export
Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None
Query results operations
Print Copy to clipboard Export Display chart Create view


phpMyAdmin
Current server:
MySQL
Recent
Favorites
New
finstagram
New
belongto
follow
friendgroup
likes
person
photo
sharedwith
tagged
information_schema
moviesaw
mysql
part2
performance_schema
Server: MySQL:3306 » Database: finstagram » Table: tagged
Browse
Structure
SQL
Search
Insert
Export
Import
Privileges
Showing rows 0 - 1 (2 total, Query took 0.0005 seconds.)
SELECT * FROM `tagged`
Show all
Number of rows: 25
Filter rows: Search this table
Sort by key: None
+ Options
username
photoID
tagstatus
Edit Copy Delete OwOUwU 10 1
Edit Copy Delete TestUser 10 1
Check all
With selected:
Edit
Copy
Delete
Export
Query results operations
Print
Copy to clipboard
Export
Display chart
Create view
1:41 PM
12/10/2019

Feature 3

1. Post a photo: Allows user to upload an image in “/upload” and choose whether or not to send to allFollowers. If allFollowers is chosen, the SharedWith table is updated with all the groups the user is in. If not, the user can choose what photo to share to what group in “/images”

2. Had a photo query to insert data into the photo table after the current user inserts data, a search query to find all the groups a user belongs to if that user chose to share with all followers, another query to find the max photoID (IE the last photo that was submitted which was submitted by this user), and one final query to insert into the sharedwith table for each group the user belongs to if all followers is chosen (this last query is repeated in a for loop for every such group)

photoQuery = "INSERT INTO photo (postingdate, filePath, allFollowers, caption, photoPoster) VALUES (%s, %s, %s, %s, %s)"

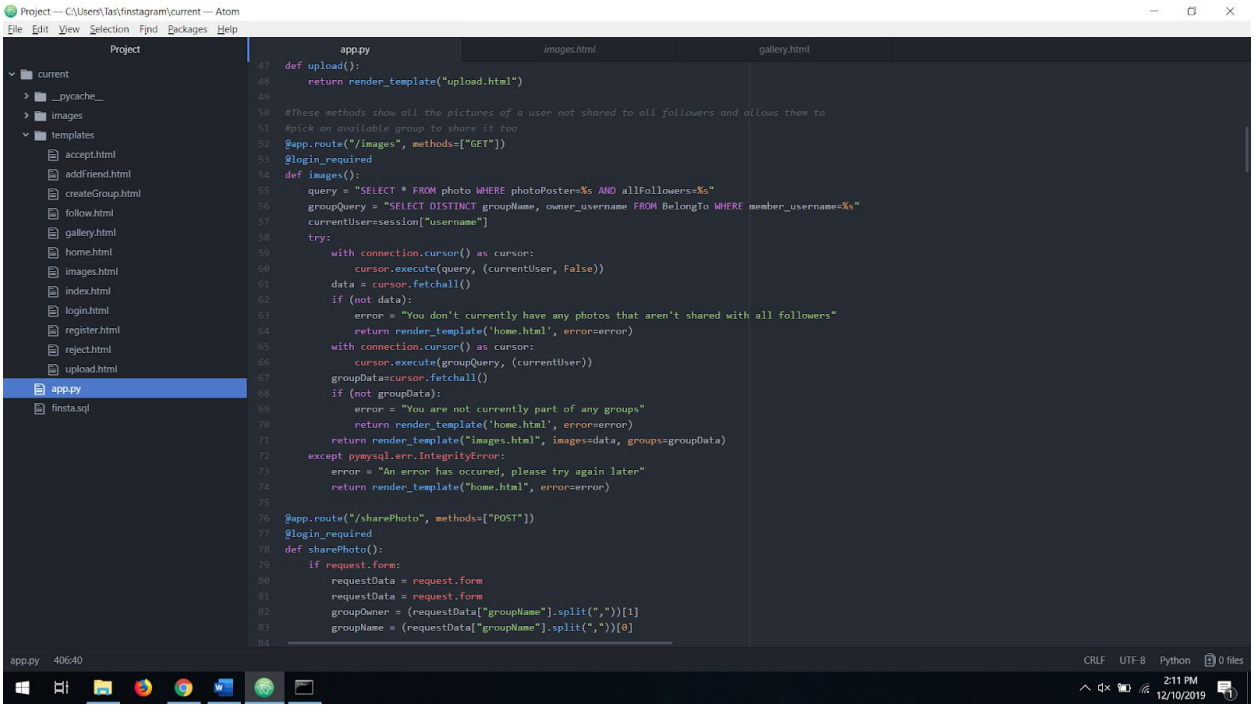
searchQuery = "SELECT DISTINCT groupName, owner_username FROM BelongTo WHERE member_username=%s"

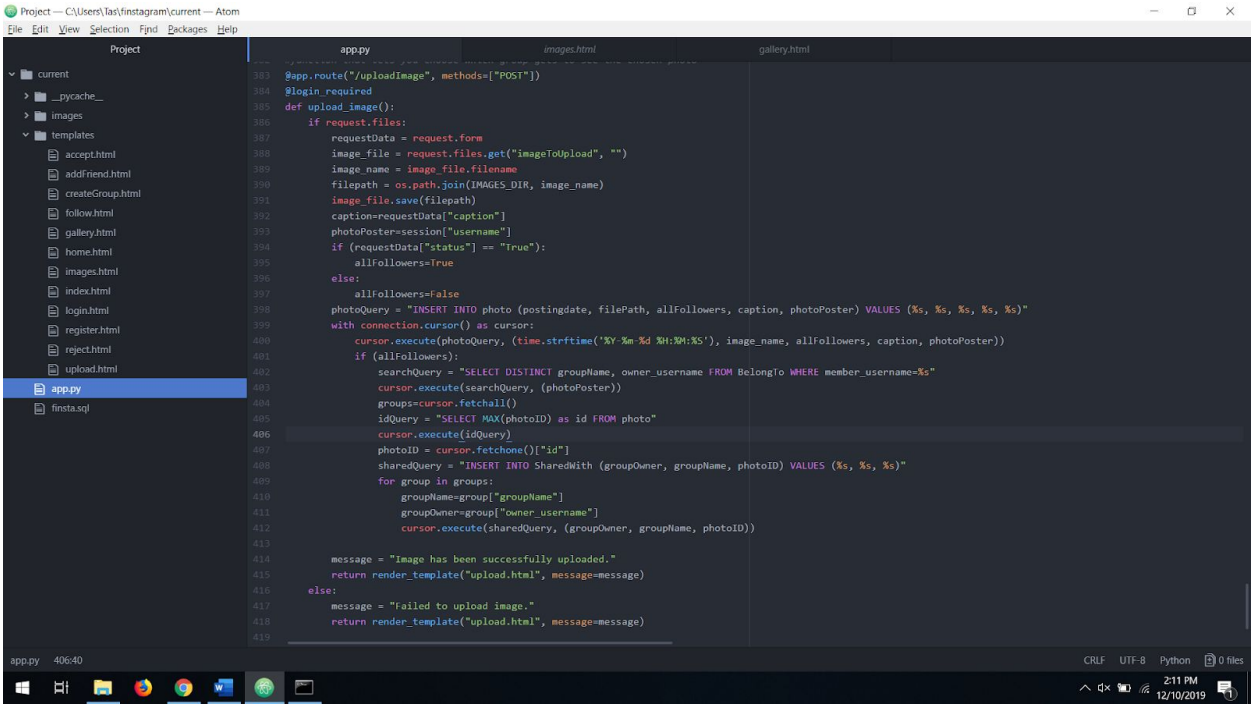
idQuery = "SELECT MAX(photoID) as id FROM photo"

sharedQuery = "INSERT INTO SharedWith (groupOwner, groupName, photoID) VALUES (%s, %s, %s)"

3. The user can upload images and choose allfollowers or not under templates/upload.html and if a user has photos that are not shared with allfollowers, that user can highlight the groups that the photo should be shared with under templates/images.html but this page can only be accessed if the user is part of a group and has existing photos where allFollowers=False. The code for uploading is found under lines 380-418 of app.py and the code for sharing photos with groups is found under lines 50-98

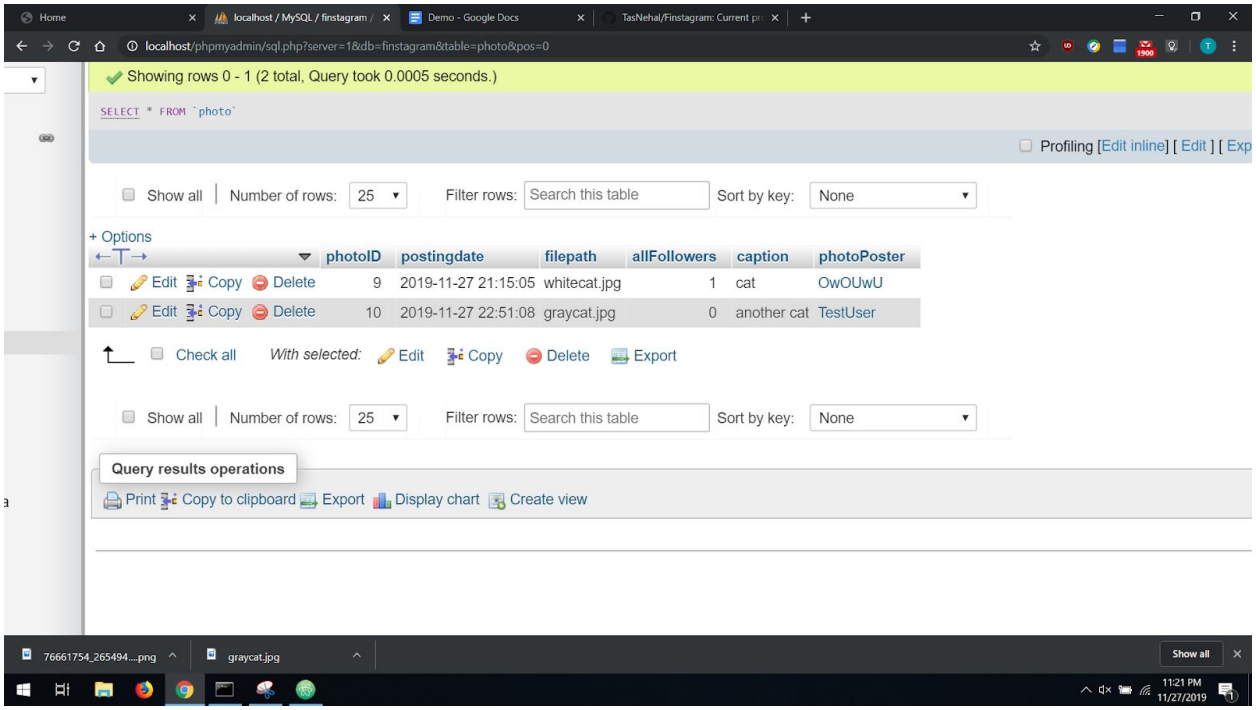
and I used two functions for rendering the forms and another for processing the forms and inserting values into the table..



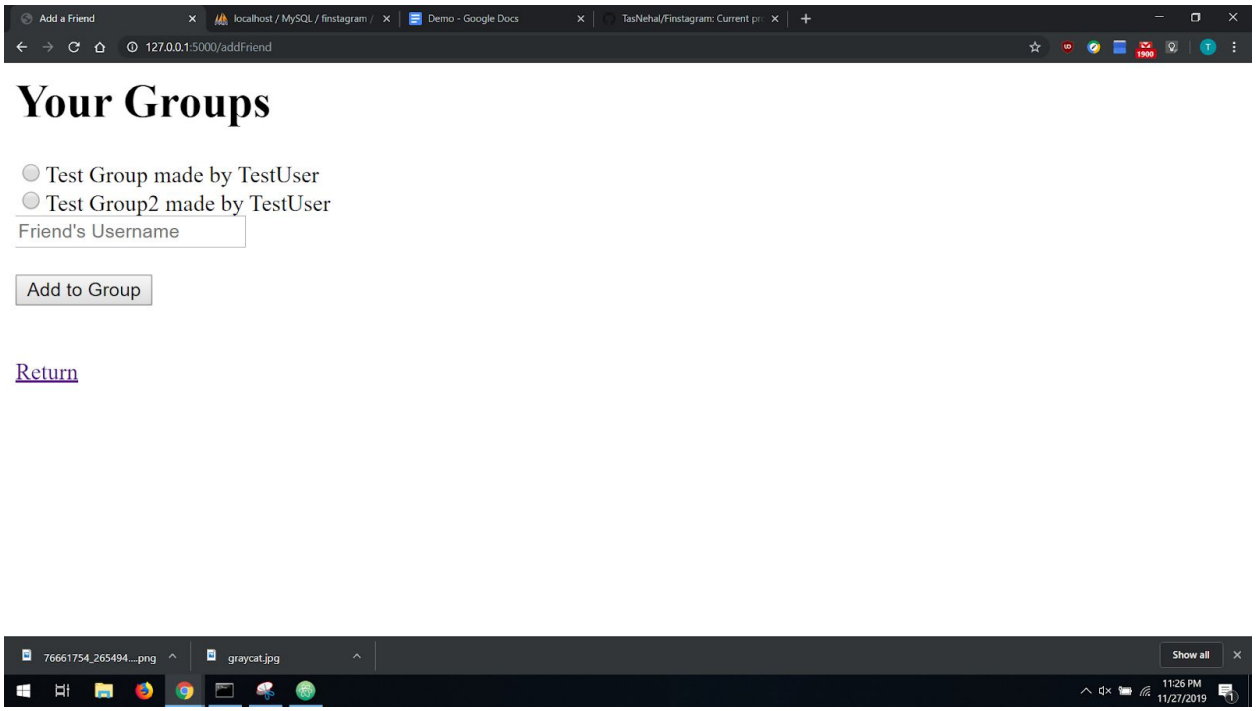


4. /upload is found by following the link called “Upload your own images” and /images is found under “Manage which groups can see photos not shared to all your followers”. Here is the demo:

Photos at the start of demo:



Current user OwOUwU is part of groups Test Group and Test Group2



User uploads photo of a kitten

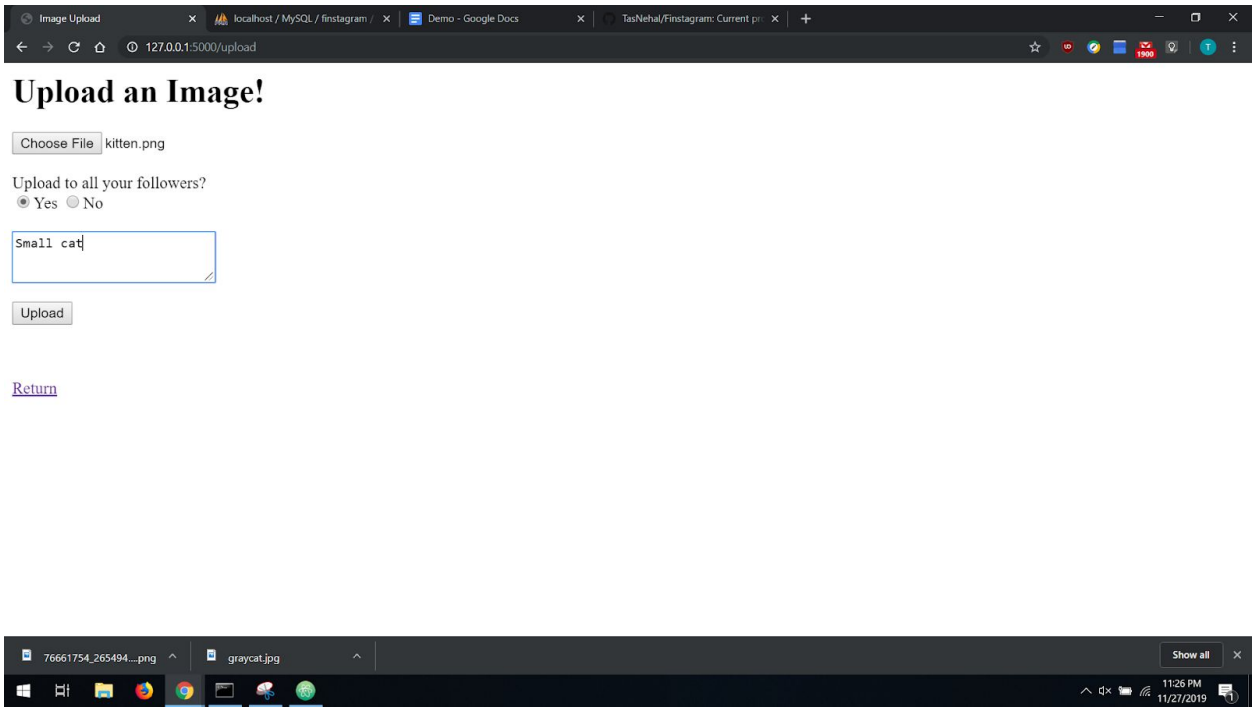
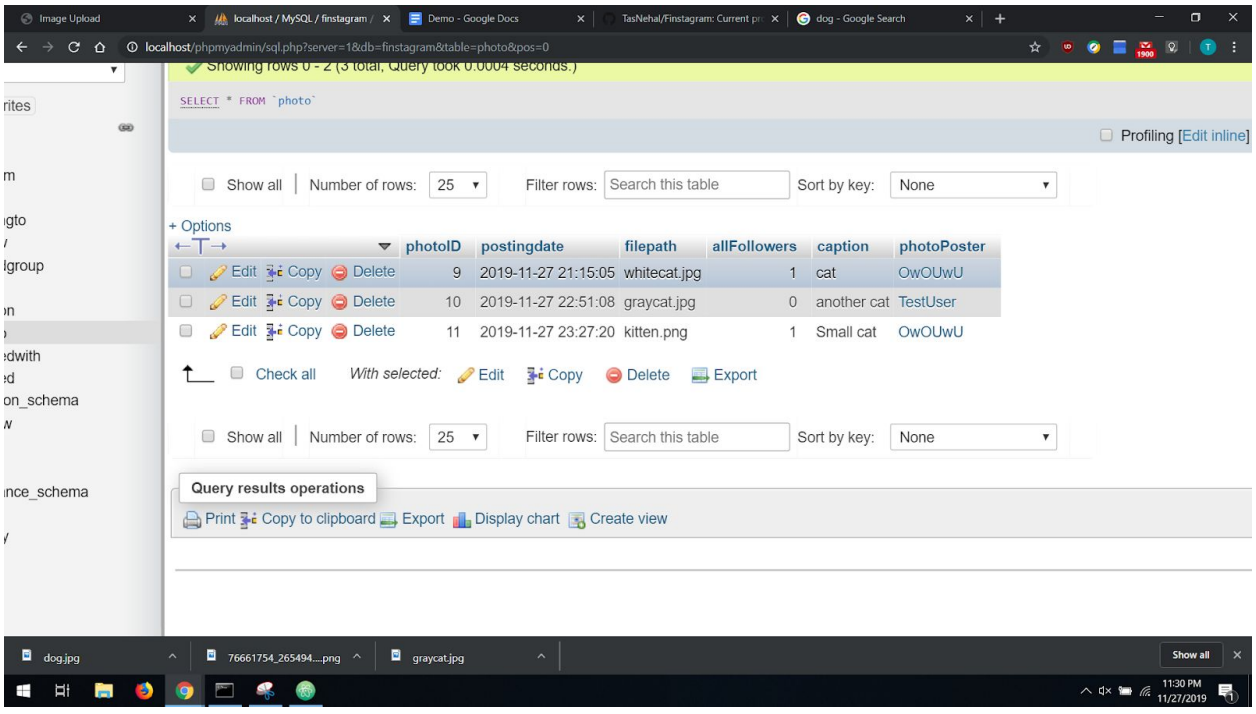


Photo table is updated and shared with table for two groups is updated accordingly



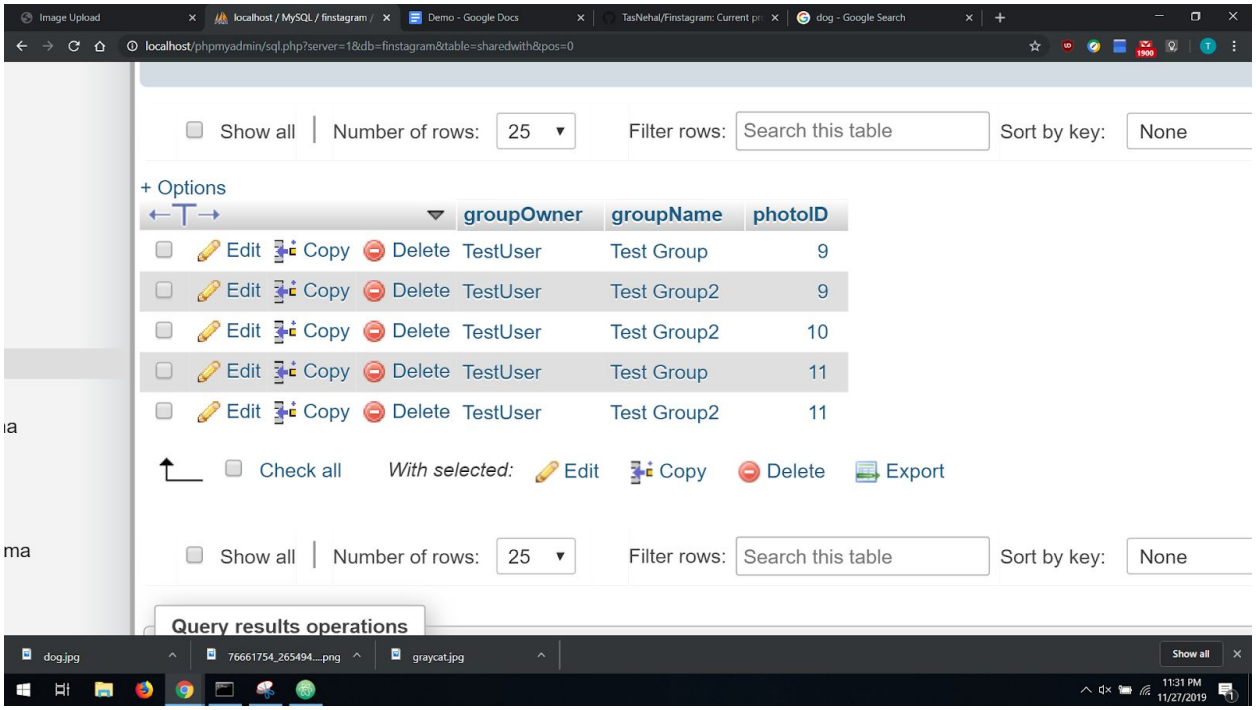


Image Upload
localhost / MySQL / finstagram /
Demo - Google Docs
TasNehal/Finstagram: Current pr
dog - Google Search
localhost/phpmyadmin/sql.php?server=1&db=finstagram&table=sharedwith&pos=0
Show all
Number of rows: 25
Filter rows: Search this table
Sort by key: None
+ Options
groupOwner
groupName
photoID
Edit Copy Delete TestUser Test Group 9
Edit Copy Delete TestUser Test Group2 9
Edit Copy Delete TestUser Test Group2 10
Edit Copy Delete TestUser Test Group 11
Edit Copy Delete TestUser Test Group2 11
Check all
With selected:
Edit
Copy
Delete
Export
Show all
Number of rows: 25
Filter rows: Search this table
Sort by key: None
Query results operations
dog.jpg
76661754_265494....png
graycat.jpg
Show all
11:31 PM
11/27/2019

Feature 4:

1. Manage follows

2. These are the queries for following someone. The first query checks if there is already an existing follow request between two users before allowing a user to create another follow request, the second query actually inserts a follow request into the follows table once it passes the check.

query = "SELECT * FROM Follow WHERE username_followed=%s AND username_follower=%s"

query = "INSERT INTO Follow (username_followed, username_follower, followstatus) VALUES (%s, %s, %s)"

This query displays all pending follow requests for the current user(follow status is false) and displays them.

query = "SELECT * FROM Follow WHERE username_followed=%s AND followstatus=False"

After a user chooses a request to accept, this query updates the associated row:

query = "UPDATE Follow SET followstatus=%s WHERE username_followed=%s AND

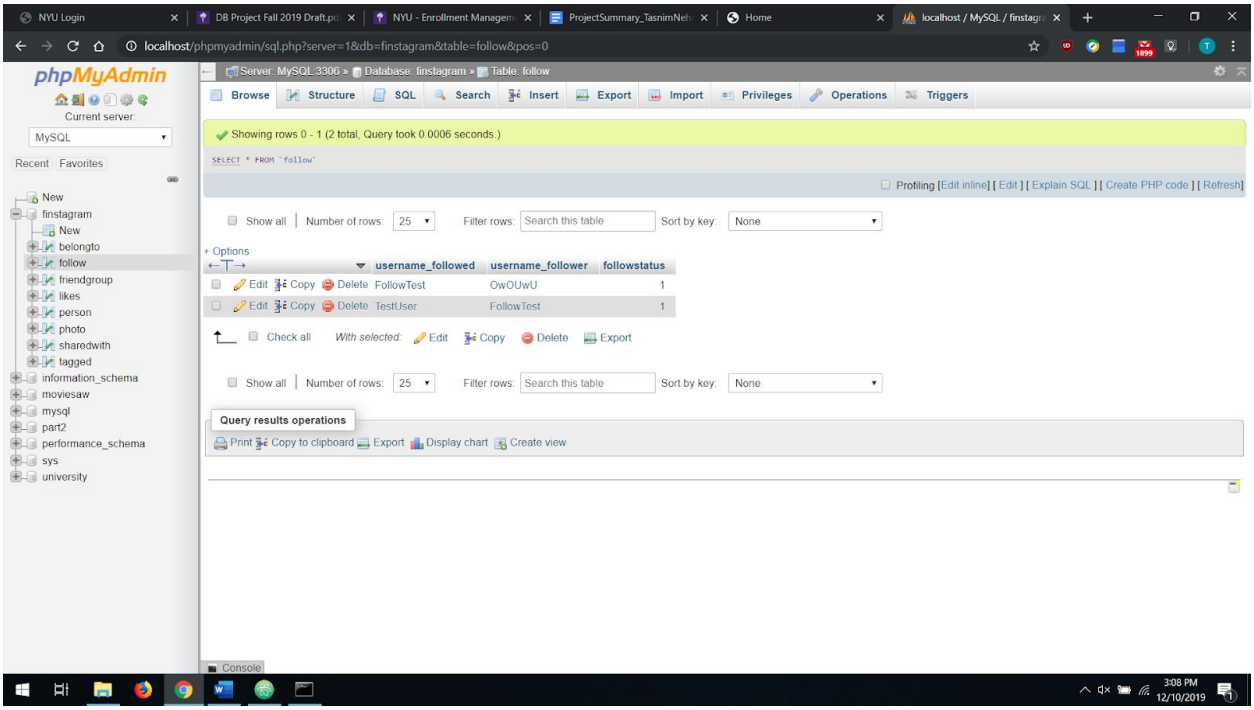
username_follower=%s"

If a user chooses to reject a request, the associated row is deleted with this query:

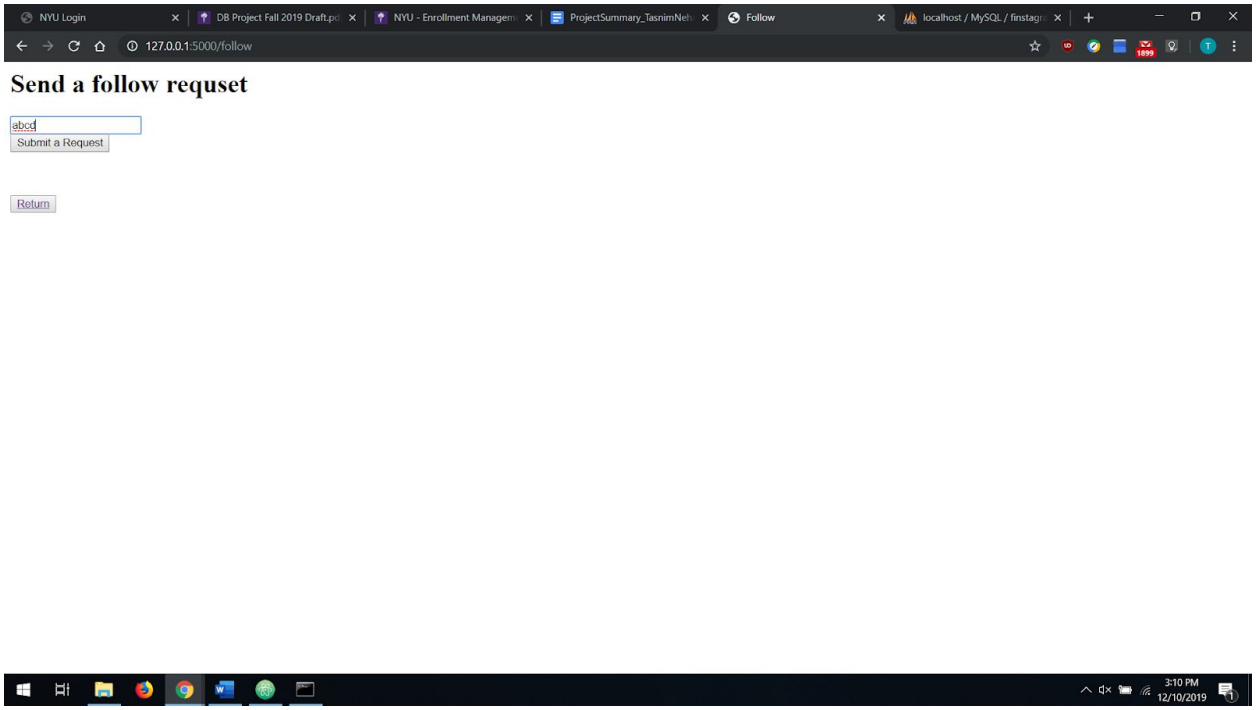
query = "DELETE FROM Follow WHERE username_follower=%s AND username_followed=%s"

3. Manage follows was incorporated over 3 different pages. The three links in home page are “Make a follow request” (template/follow), “Reject a follow request” (template/reject), “Accept a follow request” (/accept). The last two pages requires the user to have a pending follow request first before they can be accessed. Each page used two different functions each (6 total), one to generate the forms and one to process the forms and insert or remove data into the tables) The 6 functions occupy lines 240-343. Only one follow can be accepted or rejected at a time.

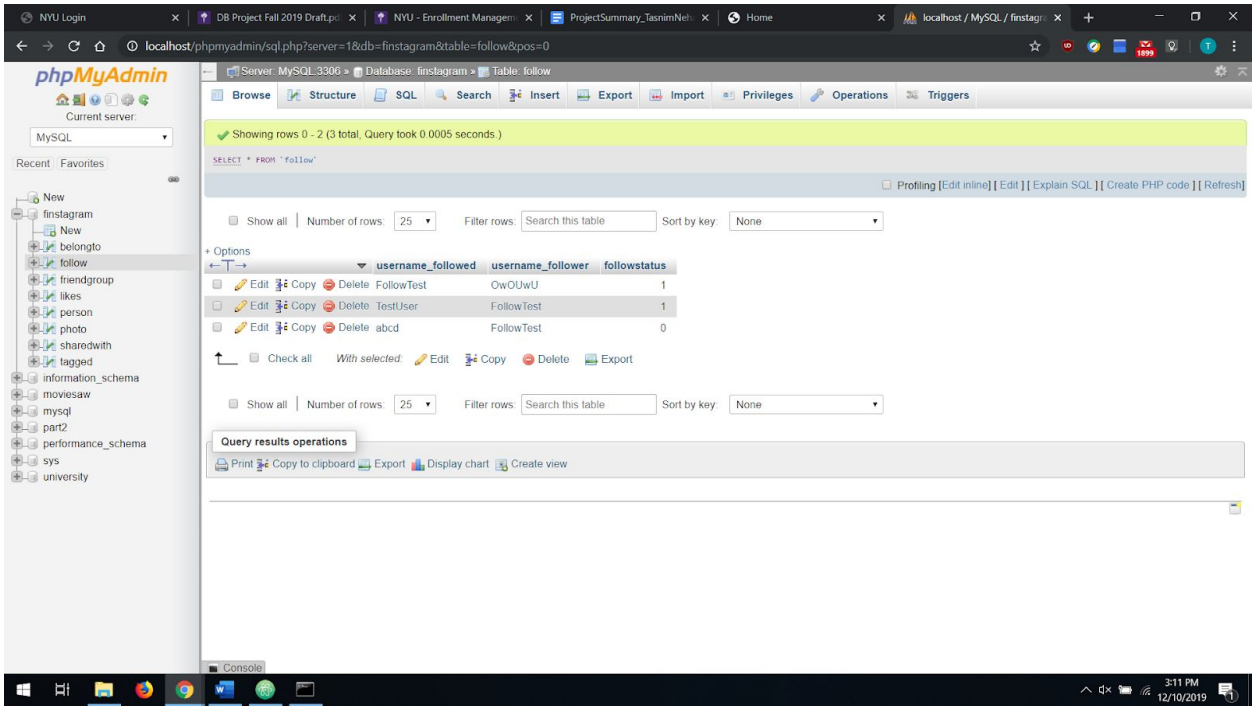
4. This is the current follow table:



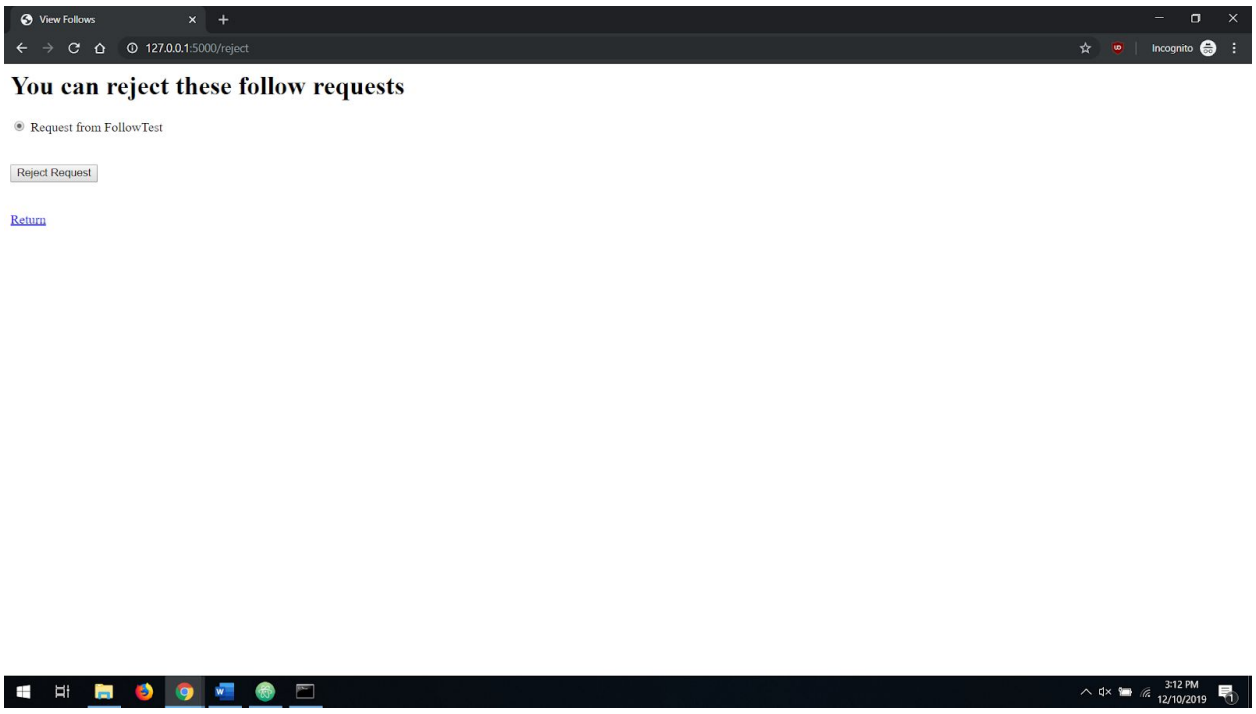
User FollowTest has to send a follow request to an existing user, in this case user abcd, or the request will not go through. Only the user on the receiving end can accept the request.

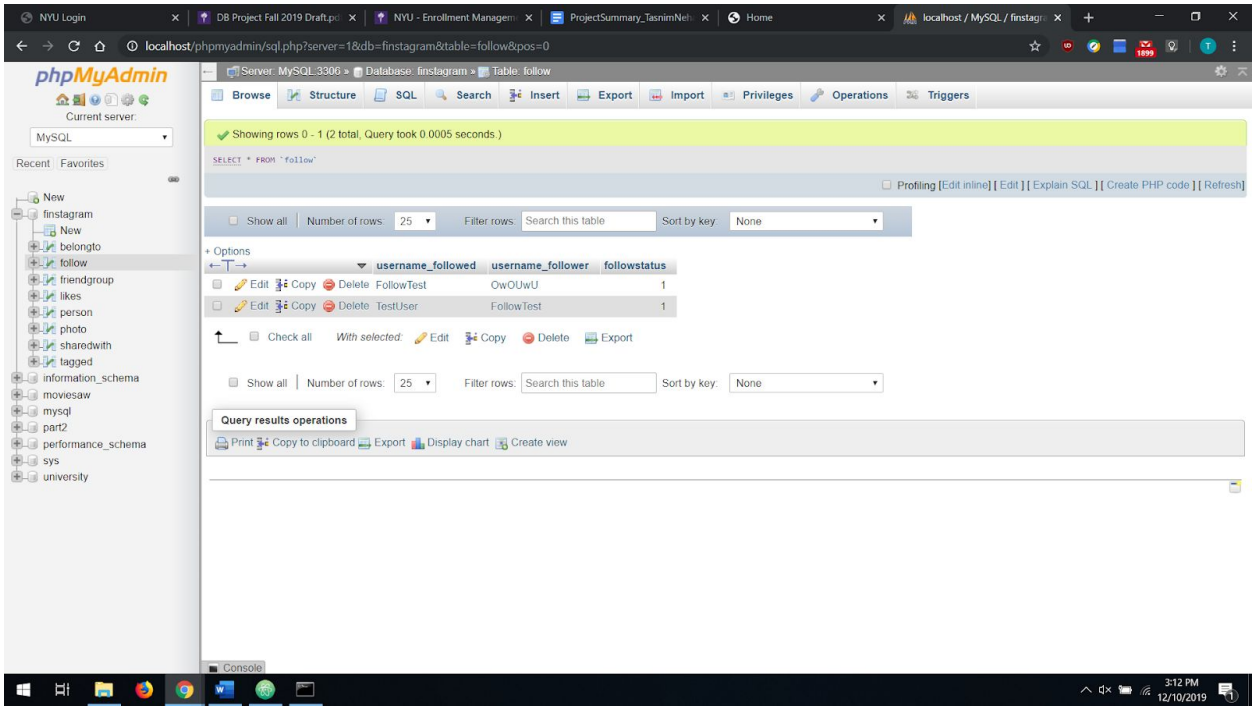


The request is sent

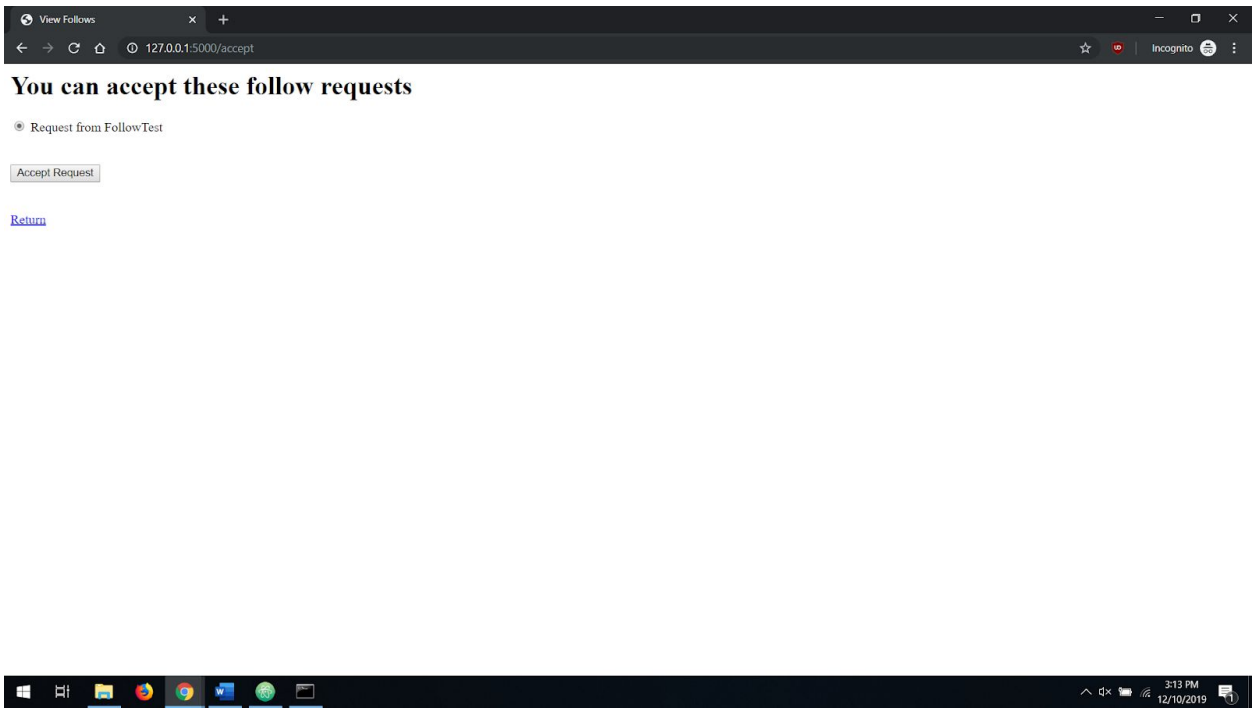


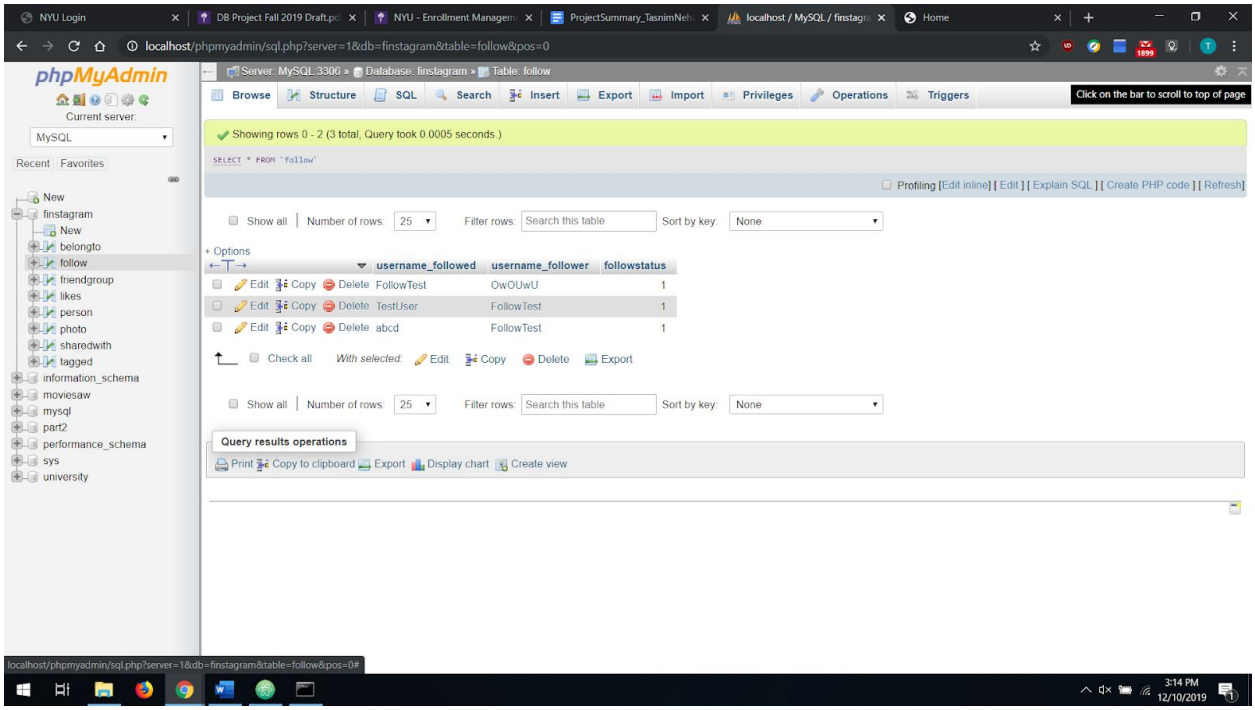
User abcd can now reject the request removing it from the table.





After resending the request, abcd accepts it this time and the table is updated.




NYU Login
DB Project Fall 2019 Draft.pd
NYU - Enrollment Managem
ProjectSummary_TasnimNeh
localhost / MySQL / finstagra
Home
localhost/phpmyadmin/sql.php?server=1&db=finstagram&table=follow&pos=0
phpMyAdmin
Current server:
MySQL
Recent Favorites
New
finstagram
New
belongto
follow
friendgroup
likes
person
photo
sharedwith
tagged
information_schema
moviesaw
mysql
part2
performance_schema
sys
university
Server: MySQL:3306 » Database: finstagram » Table: follow
Browse Structure SQL Search Insert Export Import Privileges Operations Triggers
Click on the bar to scroll to top of page
Showing rows 0 - 2 (3 total, Query took 0.0005 seconds.)
SELECT * FROM `follow`
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
Show all Number of rows: 25 Filter rows: Search this table Sort by key: None
+ Options
username_followed username_follower followstatus
Edit Copy Delete FollowTest OwOUwU 1
Edit Copy Delete TestUser FollowTest 1
Edit Copy Delete abcd FollowTest 1
Check all With selected: Edit Copy Delete Export
Show all Number of rows: 25 Filter rows: Search this table Sort by key: None
Query results operations
Print Copy to clipboard Export Display chart Create view
localhost/phpmyadmin/sql.php?server=1&db=finstagram&table=follow&pos=0#
3:14 PM
12/10/2019

Feature 5:

1. Add friend group

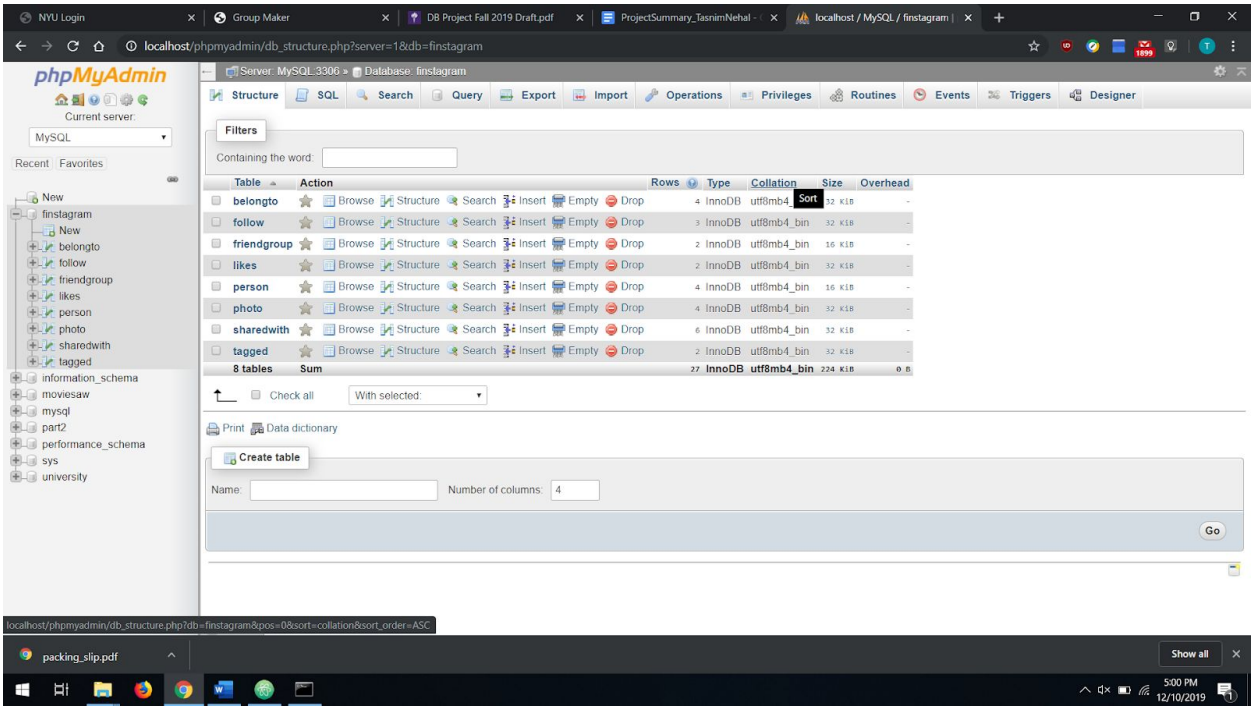
2. The first query creates the group itself while the second query adds the creator of the group as a member of that group that was just made

query = "INSERT INTO Friendgroup (groupOwner, groupName, description) VALUES (%s, %s, %s)"

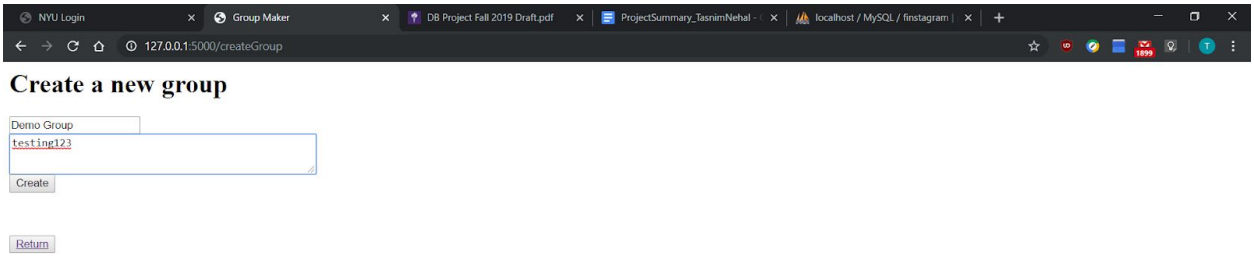
query2 = "INSERT INTO BelongTo (member_username, owner_username, groupName) VALUES (%s, %s, %s)"

3. This function relies on the page template/createGroup.html and can be accessed from the link “Create a group” on the home page. The two methods that generate the forms and processes the forms for inserting into the table respectively can be found on lines 163-192 of app.py

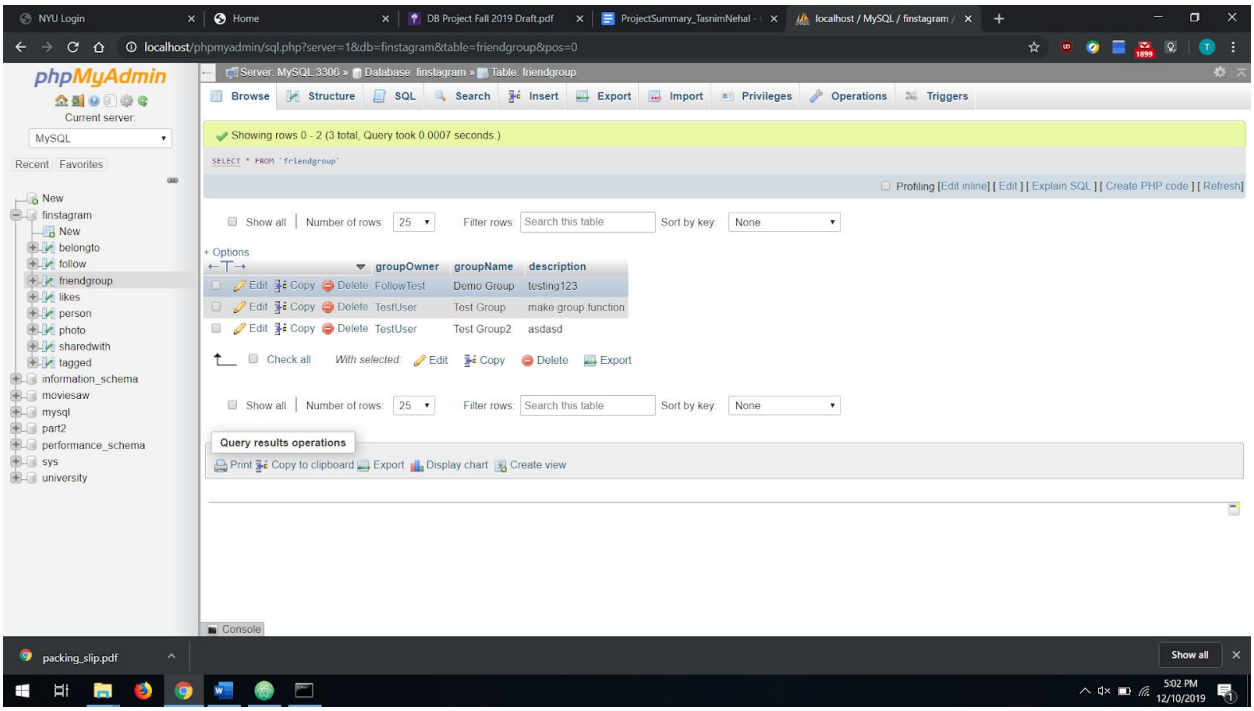
4. This is the current groups list



User called FollowTest creates a group called Demo Group and that group and its description is inserted


NYU Login
Group Maker
DB Project Fall 2019 Draft.pdf
ProjectSummary_TasnimNehal -
localhost / MySQL / finstagram
127.0.0.1:5000/createGroup
Create a new group
Demo Group
testing123
Create
Return

packing_slip.pdf
Show all
5:01 PM
12/10/2019


NYU Login
Home
DB Project Fall 2019 Draft.pdf
ProjectSummary_TasnimNehal -
localhost / MySQL / finstagram
localhost/phpmyadmin/sql.php?server=1&db=finstagram&table=friendgroup&pos=0
phpMyAdmin
Current server:
MySQL
Recent Favorites
New
finstagram
New
belongto
follow
friendgroup
likes
person
photo
sharedwith
tagged
information_schema
moviesaw
mysql
part2
performance_schema
sys
university
Server: MySQL:3306 » Database: finstagram » Table: friendgroup
Browse
Structure
SQL
Search
Insert
Export
Import
Privileges
Operations
Triggers
Showing rows 0 - 2 (3 total, Query took 0.0007 seconds.)
SELECT * FROM `friendgroup`
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
Show all
Number of rows: 25
Filter rows: Search this table
Sort by key: None
+ Options
groupOwner
groupName
description
Edit Copy Delete FollowTest Demo Group testing123
Edit Copy Delete TestUser Test Group make group function
Edit Copy Delete TestUser Test Group2 asdasd
Check all
With selected:
Edit
Copy
Delete
Export
Query results operations
Print
Copy to clipboard
Export
Display chart
Create view
Console
packing_slip.pdf
Show all
5:02 PM
12/10/2019

Feature 6:

1. Add friend

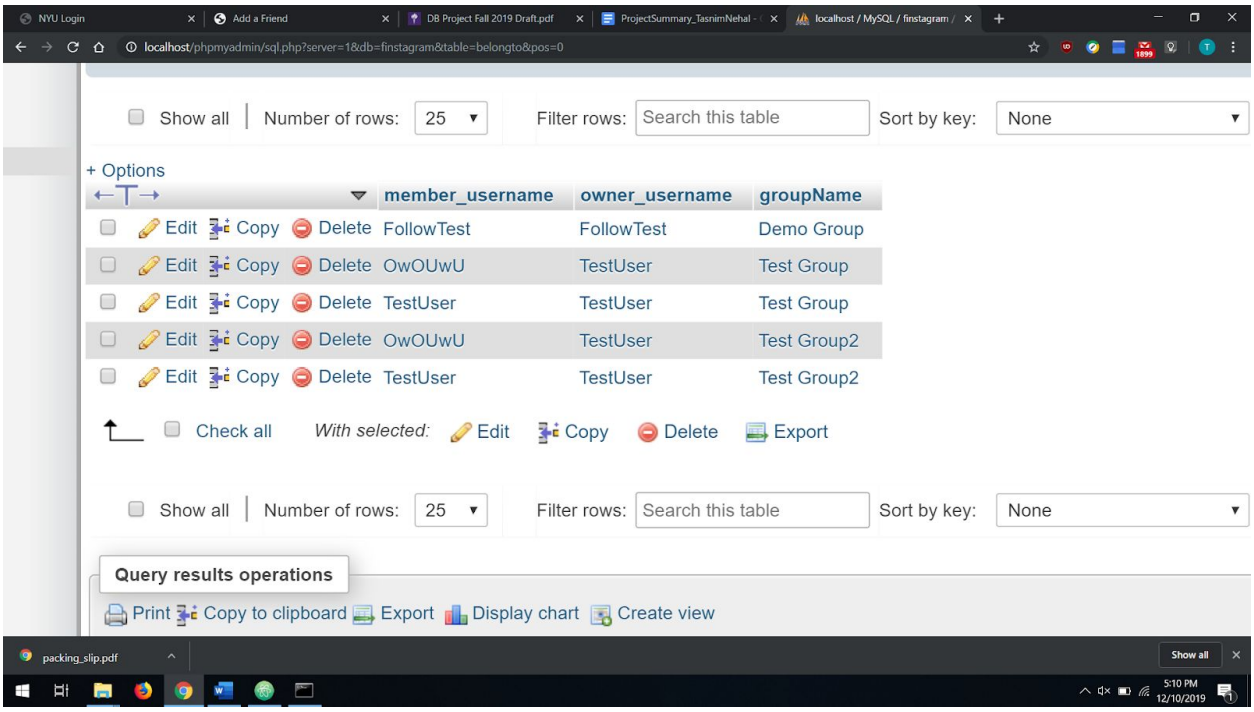
2. The first query displays the current groups the user is a member of and therefore the groups a user is allowed to add a member to. The second query inserts the chosen user into the group that was selected if that user wasn't already there.

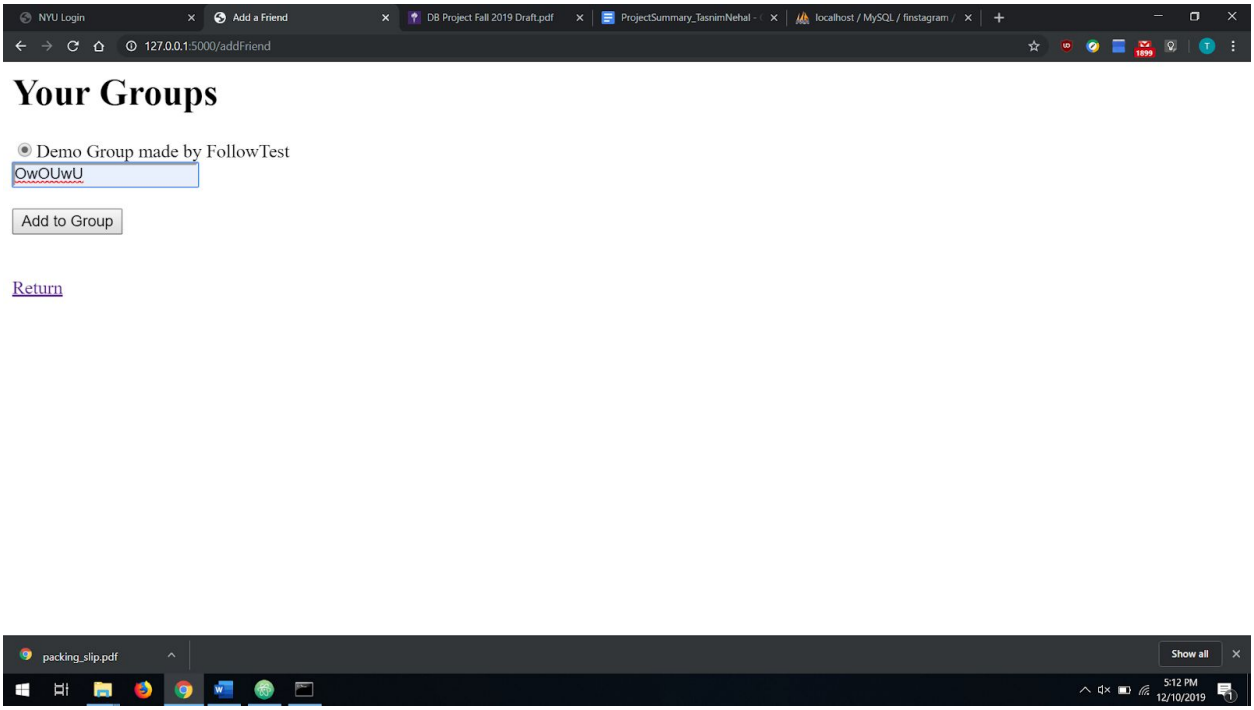
query = "SELECT DISTINCT groupName, owner_username FROM BelongTo WHERE member_username=%s"

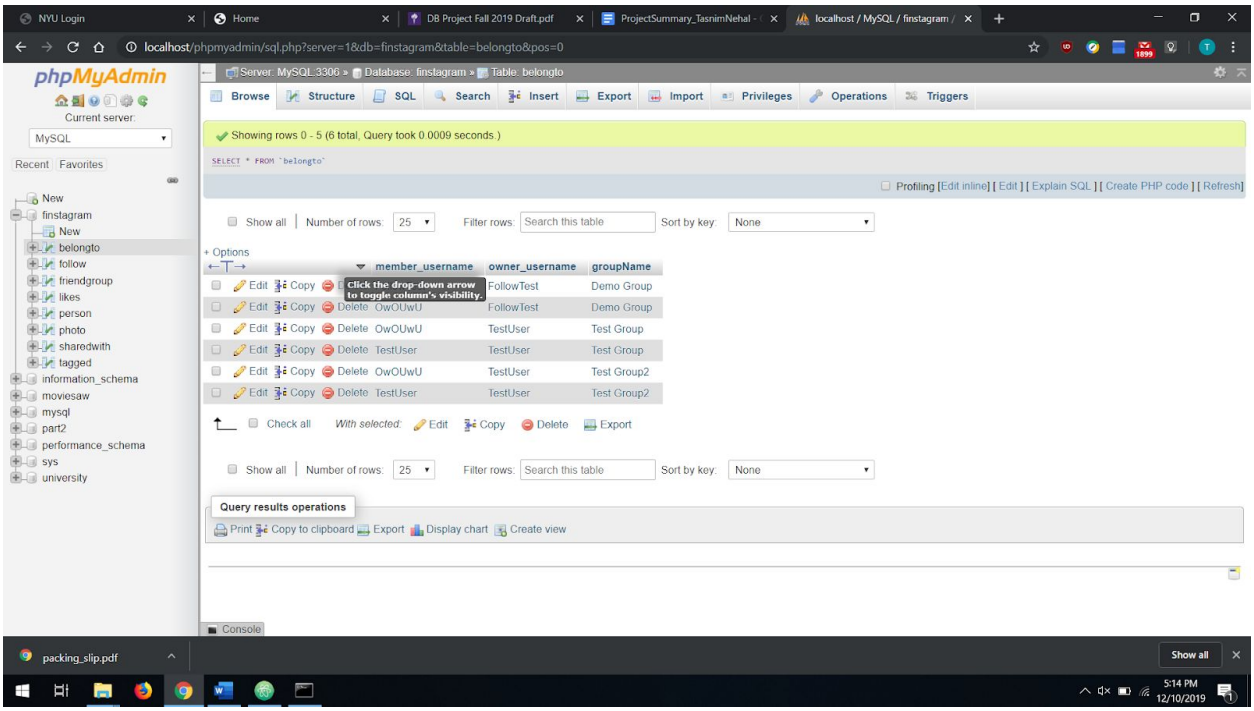
query = "INSERT INTO BelongTo (member_username, owner_username, groupName) VALUES (%s, %s, %s)"

3. This function relies on the page template/addFriend.html and can be accessed from the link "See your groups and add a friend" on the home page. The two methods that generate the forms and processes the forms for inserting into the table respectively can be found on lines 194-236 of app.py

4. The addFriend page can only be accessed if the user is part of a member of a group first. As shown, FollowTest is the only member of Demo Group. The user can select one group at a time and type out the name of the user who is going to be added. Then the table is updated.




NYU Login
Add a Friend
DB Project Fall 2019 Draft.pdf
ProjectSummary_TasnimNehal -
localhost / MySQL / finstagram /
127.0.0.1:5000/addFriend
Your Groups
Demo Group made by FollowTest
OwOUwU
Add to Group
Return
packing_slip.pdf
Show all
5:12 PM
12/10/2019


NYU Login
Home
DB Project Fall 2019 Draft.pdf
ProjectSummary_TasnimNehal -
localhost / MySQL / finstagram /
localhost/phpmyadmin/sql.php?server=1&db=finstagram&table=belongto&pos=0
phpMyAdmin
Current server:
MySQL
Recent Favorites
New
finstagram
New
belongto
follow
friendgroup
likes
person
photo
sharedwith
tagged
information_schema
moviesaw
mysql
part2
performance_schema
sys
university
Server: MySQL_3306 » Database: finstagram » Table: belongto
Browse
Structure
SQL
Search
Insert
Export
Import
Privileges
Operations
Triggers
Showing rows 0 - 5 (6 total, Query took 0.0009 seconds.)
SELECT * FROM `belongto`
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
Show all
Number of rows: 25
Filter rows: Search this table
Sort by key: None
+ Options
member_username
owner_username
groupName
Click the drop-down arrow to toggle column's visibility.
Edit Copy Delete FollowTest Demo Group
Edit Copy Delete OwOUwU FollowTest Demo Group
Edit Copy Delete OwOUwU TestUser Test Group
Edit Copy Delete TestUser TestUser Test Group
Edit Copy Delete OwOUwU TestUser Test Group2
Edit Copy Delete TestUser TestUser Test Group2
Check all
With selected:
Edit
Copy
Delete
Export
Query results operations
Print
Copy to clipboard
Export
Display chart
Create view
Console
packing_slip.pdf
Show all
5:14 PM
12/10/2019