

Project Github: <https://github.com/mb6386/Finstagram/tree/master/finstagram>

Date of last commit to repository: Dec 08, 2019

Number of Team members: 1

Names and netIDs of Team members (one per line) Mark Bekker, mb6386

#### Extra Features for Project

1. **Manage Follows** (counts as 2 extra features)
2. **Mark Bekker**
3. **The code snippet and SQL statements that do the bulk of the work for part A)**

```
followedUsername = requestData["username"]
followQuery = "INSERT INTO Follow (username_followed, username_follower, followstatus) VALUES (%s, %s, %s)"
try:
    with connection.cursor() as cursor:
        cursor.execute(followQuery, (followedUsername, session["username"], 0))
        followSuccess = 1
except:
    followSuccess = 2

requestQuery = f"""SELECT username_follower FROM Follow WHERE username_followed =
'{session["username"]}' AND followstatus = 0"""
with connection.cursor() as cursor:
    cursor.execute(requestQuery)
requestData = cursor.fetchall()
```

followQuery = "INSERT INTO Follow (username\_followed, username\_follower, followstatus)  
VALUES (%s, %s %s)"

requestQuery = f"""SELECT username\_follower FROM Follow WHERE username\_followed =  
'{session["username"]}' AND followstatus = 0"""

#### **The code snippet and SQL statements that do the bulk of the work for part B)**

```
for name in requestData:
    addQuery = f"""UPDATE FOLLOW SET followstatus=1 WHERE username_followed='{session["username"]}'
    AND username_follower = '{name}'"""
    with connection.cursor() as cursor:
        cursor.execute(addQuery)

removeQuery = f"""DELETE FROM Follow WHERE username_followed='{session["username"]}' AND followstatus = 0"""
with connection.cursor() as cursor:
    cursor.execute(removeQuery)
```

addQuery = f"""UPDATE FOLLOW SET followstatus=1 WHERE  
username\_followed='{session["username"]}' AND username\_follower = '{name}'"""

removeQuery = f"""DELETE FROM Follow WHERE username\_followed='{session["username"]}'  
AND followstatus = 0"""

4. The full implementation can be found at the following link:  
<https://github.com/mb6386/Finstagram/tree/master/finstagram> Within **app.py**, search for the

function “`def followUser()`” for part A and “`def followAccept()`” for part B for the code and queries. Also look at **home.html** in the templates folder on my github link for the html code.

5. Here is the feature demonstrated on the home page (I am currently logged in as “abby”):

## Hello, abby!

**Approve or deny the following user's follow requests**

- bobby ☐

**Type in the name of a user you want to follow below**

- [View Images](#)
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I can type in a user’s name that I want to follow and send them a request and I can accept and deny follow requests from user’s sent to my account.

## Hello, abby!

**Approve or deny the following user's follow requests**

- bobby ☐

**Type in the name of a user you want to follow below**

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## Hello, abby!

**Approve or deny the following user's follow requests**

- bobby ☐

**Type in the name of a user you want to follow below**

**Follow request sent to bobby!**

- [View Images](#)
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After sending a follow request to bobby, the home page alerts me the request was sent and the request appears within the database:

`SELECT * FROM `Follow``

☐ Profiling [\[Edit inline\]](#) [\[Edit\]](#) [\[Explain SQL\]](#) [\[Create\]](#)

☐ Show all | Number of rows: 25  Filter rows: Search this table Sort by key: No

+ Options

|                          |      |      |        | username_followed | username_follower | followstatus |
|--------------------------|------|------|--------|-------------------|-------------------|--------------|
| <input type="checkbox"/> | Edit | Copy | Delete | abby              | bobby             | 0            |
| <input type="checkbox"/> | Edit | Copy | Delete | bobby             | bobby             | 1            |
| <input type="checkbox"/> | Edit | Copy | Delete | bobby             | colieen           | 1            |
| <input type="checkbox"/> | Edit | Copy | Delete | bobby             | mark              | 1            |
| <input type="checkbox"/> | Edit | Copy | Delete | mark              | abby              | 0            |

☐ Check all With selected: Edit Copy Delete Export

The above screenshot is before the request ^

✓ Showing rows 0 - 5 (6 total, Query took 0.0003 seconds.)

`SELECT * FROM `Follow``

☐ Profiling [\[Edit inline\]](#) [\[Edit\]](#) [\[Explain SQL\]](#) [\[Create\]](#)

☐ Show all | Number of rows: 25  Filter rows: Search this table Sort by key: No

+ Options

|                          |      |      |        | username_followed | username_follower | followstatus |
|--------------------------|------|------|--------|-------------------|-------------------|--------------|
| <input type="checkbox"/> | Edit | Copy | Delete | abby              | bobby             | 0            |
| <input type="checkbox"/> | Edit | Copy | Delete | bobby             | abby              | 0            |
| <input type="checkbox"/> | Edit | Copy | Delete | bobby             | bobby             | 1            |
| <input type="checkbox"/> | Edit | Copy | Delete | bobby             | colieen           | 1            |
| <input type="checkbox"/> | Edit | Copy | Delete | bobby             | mark              | 1            |
| <input type="checkbox"/> | Edit | Copy | Delete | mark              | abby              | 0            |

☐ Check all With selected: Edit Copy Delete Export

The above screenshot is after the request ^. As you can see the tuple ('bobby','abby',0) was added.

Now if I log onto bobby's account and view the home page I can see the request from abby (below):

## Hello, bobby!

Approve or deny the following user's follow requests

- abby ☐

Type in the name of a user you want to follow below

- [View Images](#)
- [Upload an Image](#)
- [Logout](#)

## Hello, bobby!

Approve or deny the following user's follow requests

- abby ☒

Type in the name of a user you want to follow below

- [View Images](#)
- [Upload an Image](#)
- [Logout](#)

When I check the box for abby and hit submit from bobby's homepage, bobby has now approved abby's follow request to him. This change is visible in the data table:

```
SELECT * FROM `Follow`
```

☐ Profiling [\[Edit inline\]](#) [\[ Edit \]](#) [\[ Explain SQL \]](#) [\[ Create \]](#)

☐ Show all

 | Number of rows: 

25

Filter rows:

 Sort by key: 

Nor

+ Options

|                          |      |      |        | username_followed | username_follower | followstatus |
|--------------------------|------|------|--------|-------------------|-------------------|--------------|
| <input type="checkbox"/> | Edit | Copy | Delete | abby              | bobby             | 0            |
| <input type="checkbox"/> | Edit | Copy | Delete | bobby             | abby              | 1            |
| <input type="checkbox"/> | Edit | Copy | Delete | bobby             | bobby             | 1            |
| <input type="checkbox"/> | Edit | Copy | Delete | bobby             | colleen           | 1            |
| <input type="checkbox"/> | Edit | Copy | Delete | bobby             | mark              | 1            |
| <input type="checkbox"/> | Edit | Copy | Delete | mark              | abby              | 0            |

☐ Check all

With selected: Edit Copy Delete Export

The tuple that was once ('bobby','abby',0) has now become ('bobby','abby',1) indicating that abby's follow request to bobby has been approved and she now follows his account.