

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 ☐

Submit

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

Submit

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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 ☐

Submit

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

Submit

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

Hello, abby!

Approve or deny the following user's follow requests

- bobby ☐

Submit

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

Submit

Follow request sent to bobby!

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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``

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☐ 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:

+ 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.