

This report focus on the feature implemented for part 3

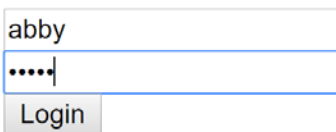
The first step is to insert all the tuple given for testing process.

Welcome to Finstagram

- [Login](#)
- [Register](#)

This is the main page. By clicking login button we get the next page.

Login



abby
....
Login

Because we have already insert the abby as a person tuple into the database, we can just by type the username and password stored in the table, which is in this case is abby and pass1

Hello, abby!

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





















Owner of Photo	PhotoID	Timestamp	Caption	Photo	People who have been tagged
abby	13	2019-11-27 00:00:00		./family_bora_bora.jpg	
bobby	12	2019-11-27 00:00:00		./bowling_team.jpg	
abby	11	2019-11-27 00:00:00		./roommates_a.jpg	
bobby	10	2019-11-27 00:00:00		./roommates_b.jpg	











After clicking the login in button we can get into our home page. In the home page, we can see all the photo visible to abby. In this case, the photoID which is visible for abby is 10, 11, 12, 13.

In order to show this feature is valid, we need to get information from all the table.

+ Options		photoID	postingdate	filepath	allFollowers	caption	photoPoster
<input type="checkbox"/>	Edit Copy Delete	13	2019-11-27 00:00:00	./family_bora_bora.jpg	0	family vaca	abby
<input type="checkbox"/>	Edit Copy Delete	12	2019-11-27 00:00:00	./bowling_team.jpg	0	bowlingTeam	bobby
<input type="checkbox"/>	Edit Copy Delete	11	2019-11-27 00:00:00	./roommates_a.jpg	1	roommates	abby
<input type="checkbox"/>	Edit Copy Delete	10	2019-11-27 00:00:00	./roommates_b.jpg	1	roommates	bobby

+ Options						
		username	password	firstName	lastName	bio
<input type="checkbox"/>	Edit Copy Delete	dan	pass2	Dan	Sucio	dirty dan
<input type="checkbox"/>	Edit Copy Delete	colieen	pass3	Colieen	Douglas	Dance Mom
<input type="checkbox"/>	Edit Copy Delete	bobby	pass2	Bobby	Brown	Abbys Partner
<input type="checkbox"/>	Edit Copy Delete	abby	pass1	Abby	Lee	Dance Moms Leader

+ Options				member_username	owner_username	groupName
<input type="checkbox"/>	 Edit	 Copy	 Delete	abby	abby	family
<input type="checkbox"/>	 Edit	 Copy	 Delete	abby	abby	roommates
<input type="checkbox"/>	 Edit	 Copy	 Delete	abby	bobby	roommates
<input type="checkbox"/>	 Edit	 Copy	 Delete	bobby	bobby	roommates
<input type="checkbox"/>	 Edit	 Copy	 Delete	colleen	abby	roommates
<input type="checkbox"/>	 Edit	 Copy	 Delete	dan	abby	family
<input type="checkbox"/>	 Edit	 Copy	 Delete	dan	bobby	roommates

+ Options				groupOwner	groupName	description
<input type="checkbox"/>	 Edit	 Copy	 Delete	bobby	roommates	42 Wallaby Way
<input type="checkbox"/>	 Edit	 Copy	 Delete	abby	roommates	roommates of 221B
<input type="checkbox"/>	 Edit	 Copy	 Delete	abby	family	Lee Family
<input type="checkbox"/>	 Edit	 Copy	 Delete	bobby	bowlingTeam	The Pinhead Larrys

+ Options

groupOwner

groupName

photoID

Edit

Copy

Delete

bobby

roommates

12

+ Options

username_followed

username_follower

followstatus

Edit

Copy

Delete

bobby

colleen

0

Edit

Copy

Delete

bobby

abby

1

By showing the feature 1 is valid, I will explain the visible photo one by one.

1. As for photoID is 13, because the photoPoster is abby, this one is visible for abby
2. As for photoID is 11, because the photoPoster is abby, this one is also visible for abby
3. As for photoID is 12, we can see this one is not for all followers, but abby is belong to bobby's roommates group, and this photo is visible for bobby's roommates. Therefore, this one is also visible for abby.
4. As for photoID 10, we can see this one is visible for all follower, and abby is one of bobby's follower. Therefore, this one is also visible for abby.

The query to find visible photoID is shown below. Please take a look!

```

SELECT
photoID
FROM photo
WHERE photoID IN(
    SELECT photoID
    FROM photo
    WHERE photoPoster = 'abby'
    OR photoID IN(
        SELECT photoID
        FROM photo JOIN follow ON (photoPoster = username_followed)
        WHERE (allFollowers = True AND username_follower = 'abby'
AND followstatus = True)
        OR photoID IN(
            SELECT photoID
            FROM friendgroup AS F
            JOIN belongto As B ON F.groupName =
B.groupName AND F.groupOwner = B.owner_username
            JOIN sharedwith AS S ON F.groupName =
S.groupName AND F.groupOwner = S.groupOwner
            WHERE member_username = 'abby'))))

```

