Lab 4

User Page: Click on a user on the Users page to show all information for that user, including their topics

I implemented this feature to the best of my ability however I was unable to get it to work how I would have anticipated. Using a button and function I was able to return the selected username, I was trying to get the selected user to open a new page listing the details of the selected user however I could not get any output.

```javascript
// List Users page
app.get('/users',function(req,res){
    // Query to select all users
    let sqlquery = `SELECT   username, firstname, surname, country
                    FROM     users
                    ORDER BY username;`

    // Run the query
    db.query(sqlquery, (err, result) => {
        if (err) {
            res.redirect('./');
        }

        // Pass results to the EJS page and view it
        let data = Object.assign({}, forumData, {users:result});
        console.log(data)
        res.render('users.ejs', data);
    });
});

app.get('/userpage', function (req,res) {

    // Get the user id from the user name
    let sqlquery = `
SELECT * FROM userpage
WHERE username = ?;`
    db.query(sqlquery, [req.body.username], (err, result) => {
        if (err) {
            res.redirect('./');
        }

                // Pass results to the EJS page and view it
                let data = Object.assign({}, forumData, {users:result});
                console.log(result.body.username)
                res.render('userpage.ejs', data);
        });
    });
```

TP's Foru

www.doc.gold.ac.uk says

ally

OK

Users

Username	First Name	Surname	Country	
ally	Allyn	Earl	UK	View User
baggy	Bernadette	Bagley	Italy	View User
elly	Elly	Barros	Spain	View User
lina	Carolina	Morella	Spain	View User
panny	Sophie	Panza	UK	View User
pip	Giada	Filippi	Italy	View User
roly	Rolo	Vicario	Italy	View User
shaddy	Shad	Travis	UK	View User
vit		Miriana	Vitali	Italy	View User

Delete Post: Delete a selected post.

Again I implemented this function through the use of a button, a for loop and "document.getElementById". The button removes the post from the table but not from the sql database which has both positives and negatives, using the post ID we can remove each post one by one

Use Views: Use database views in your project so that no SQL joins appear in code in your middleware (main.js)

As demonstrated in lecture 9.1 I was able to simplify the SQL used in the middleware by creating joined data tables and querying them rather then joining them each time they were called upon on the site.

```
// View Posts page
app.get('/viewposts',function(req,res){
    // Query to select all posts from the database
    let sqlquery = `SELECT post_id, post_date, topic_title, post_title, post_content, username
                    FROM vw_posts;`;
```

```
mysql> use myforum;select * from vw_posts;
Database changed
+---------+---------------------+-------------+-------------------------+----------------------------------------------------+----------+
| post_id | post_date           | topic_title | post_title              | post_content                                       | username |
+---------+---------------------+-------------+-------------------------+----------------------------------------------------+----------+
|       1 | 2021-11-01 12:53:00 | food        | How to peel an avocado  | What's the best way to peel an avocado?            | shaddy   |
|       2 | 2021-11-03 10:34:00 | food        | Peeling bananas         | Which is the correct end?                          | panny    |
|       3 | 2021-11-07 16:26:00 | food        | How to peel a grape     | Is this even possible?                             | lina     |
|       4 | 2021-11-13 17:01:00 | food        | My bao buns are soggy   | What am I doing wrong?                              | lina     |
|       5 | 2021-11-13 19:45:00 | art         | Framers in Camberwell   | I urgently need a picture framing.  Any recommendations? | shaddy   |
|       6 | 2021-11-15 13:32:00 | art         | Cezanne exhibition      | I have 2 spare tickets for this Friday.  Anyone want them? | baggy    |
+---------+---------------------+-------------+-------------------------+----------------------------------------------------+----------+
6 rows in set (0.00 sec)
```

ER Diagram

DBMS ER diagram (UML notation)

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