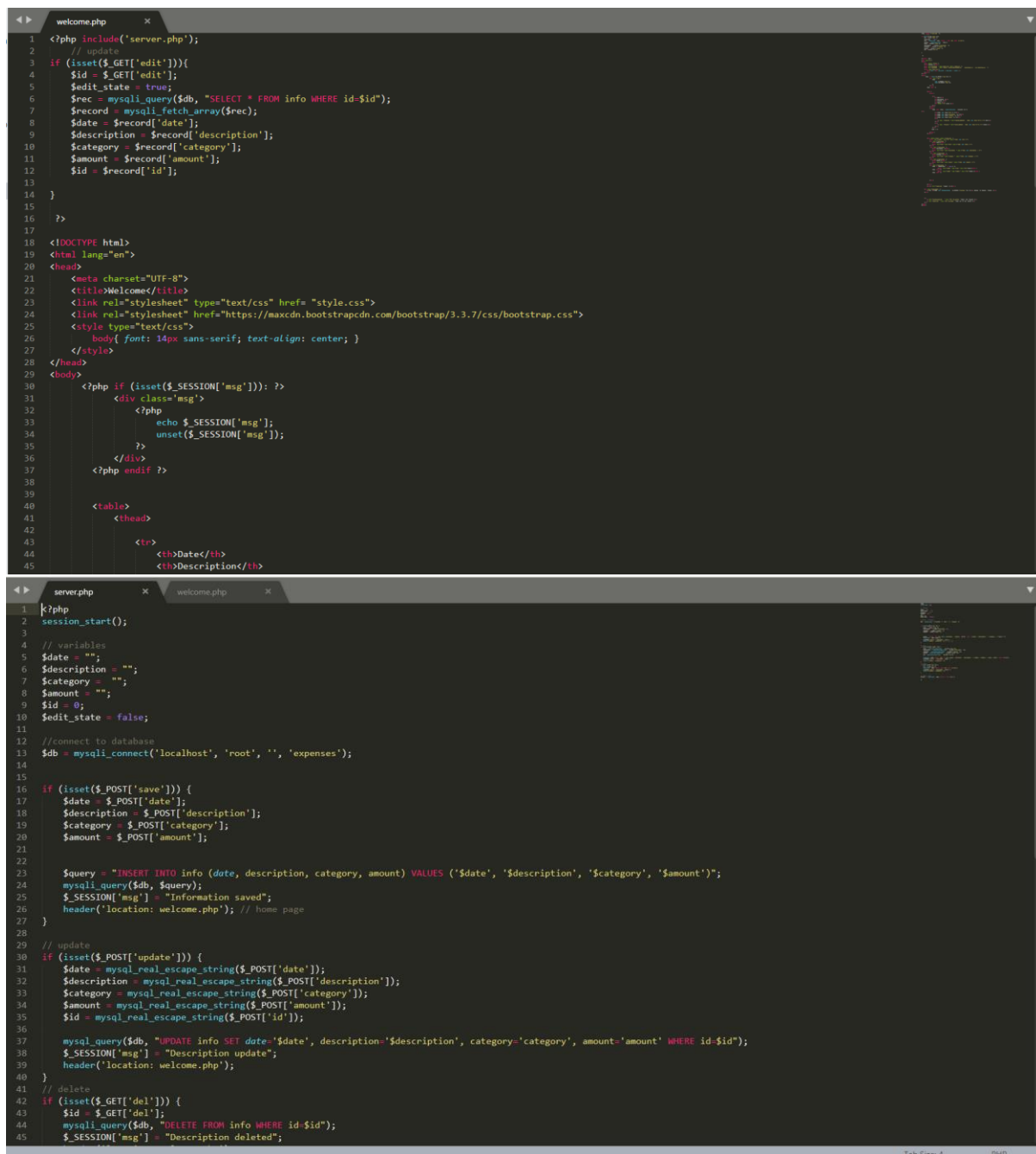


Short Rationale

In this basic web application assignment, I created, a simple expenses tracker web application. Where user can register, login, logout, add data to the database, retrieve data from the database, edit and delete content as well as display the content on front end. I made 7 different pages to complete all the task . And I started of creating home page (welcome.php) using code editor called “Sublime text”. In the welcome page I’ve created the table where the user can input their expenses, like the date, description category and the amount, I’ve added edited button and delete button, so that the user can update their information.

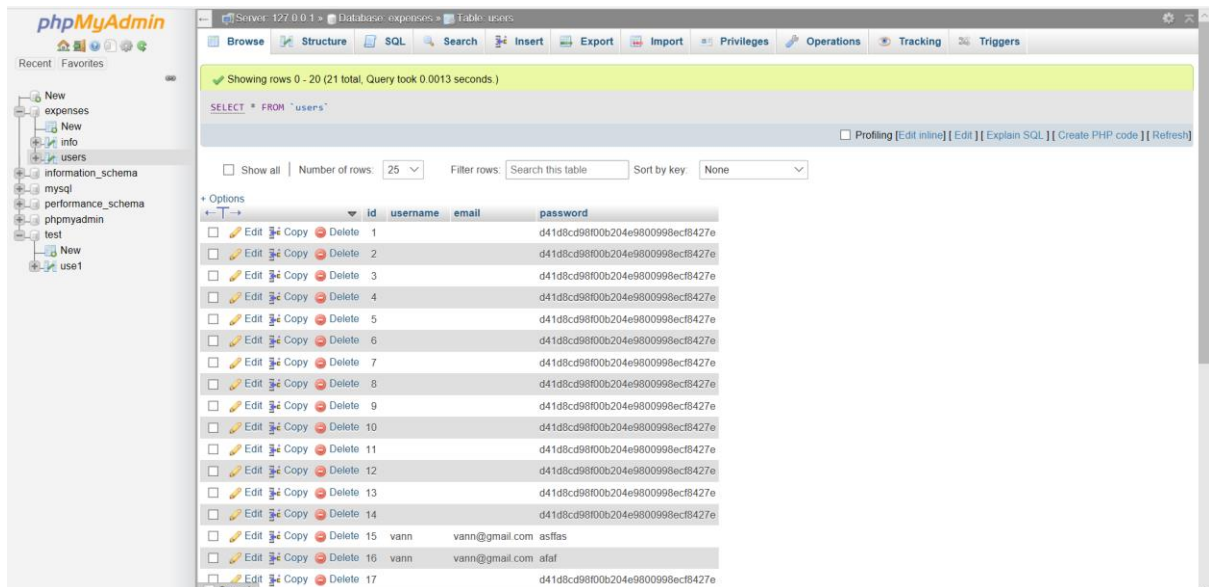
And I also create database in the using myphpAdmin, and connected to the home page. To connect the home page to the database, I create server page called server.php and implemented the code. As shown below.



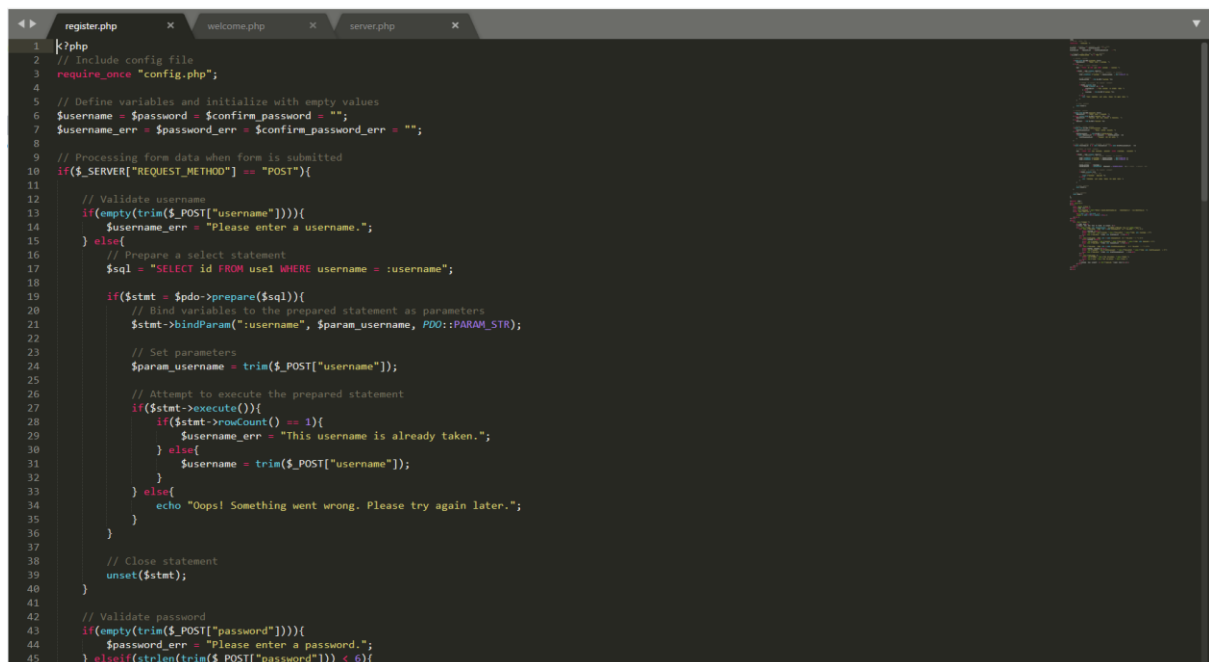
```
1 <?php include('server.php');
2
3 // update
4 if (isset($_GET['edit'])){
5     $id = $_GET['edit'];
6     $edit_state = true;
7     $rec = mysqli_query($db, "SELECT * FROM info WHERE id=$id");
8     $record = mysqli_fetch_array($rec);
9     $date = $record['date'];
10    $description = $record['description'];
11    $category = $record['category'];
12    $amount = $record['amount'];
13    $id = $record['id'];
14 }
15
16 ?>
17
18 <!DOCTYPE html>
19 <html lang="en">
20 <head>
21     <meta charset="UTF-8">
22     <title>Welcome</title>
23     <link rel="stylesheet" type="text/css" href="style.css">
24     <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.css">
25     <style type="text/css">
26         body{ font: 14px sans-serif; text-align: center; }
27     </style>
28 </head>
29 <body>
30     <?php if (isset($_SESSION['msg'])): ?>
31         <div class="msg">
32             <?php
33                 echo $_SESSION['msg'];
34                 unset($_SESSION['msg']);
35             ?>
36         </div>
37     <?php endif ?>
38
39     <table>
40         <thead>
41             <tr>
42                 <th>Date</th>
43                 <th>Description</th>
44                 <th>Category</th>
45                 <th>Amount</th>
46                 <th>Action</th>
47             </tr>
48         </thead>
49         <tbody>
50             <tr>
51                 <td>Date</td>
52                 <td>Description</td>
53                 <td>Category</td>
54                 <td>Amount</td>
55                 <td>Action</td>
56             </tr>
57         </tbody>
58     </table>
59 </body>
60 </html>
```

```
1 <?php
2 session_start();
3
4 // variables
5 $date = "";
6 $description = "";
7 $category = "";
8 $amount = "";
9 $id = 0;
10 $edit_state = false;
11
12 //connect to database
13 $db = mysqli_connect('localhost', 'root', '', 'expenses');
14
15
16 if (isset($_POST['save'])) {
17     $date = $_POST['date'];
18     $description = $_POST['description'];
19     $category = $_POST['category'];
20     $amount = $_POST['amount'];
21
22     $query = "INSERT INTO info (date, description, category, amount) VALUES ('$date', '$description', '$category', '$amount')";
23     mysqli_query($db, $query);
24     $_SESSION['msg'] = "Information saved";
25     header('location: welcome.php'); // home page
26 }
27
28
29 // update
30 if (isset($_POST['update'])) {
31     $date = mysqli_real_escape_string($_POST['date']);
32     $description = mysqli_real_escape_string($_POST['description']);
33     $category = mysqli_real_escape_string($_POST['category']);
34     $amount = mysqli_real_escape_string($_POST['amount']);
35     $id = mysqli_real_escape_string($_POST['id']);
36
37     $query = "UPDATE info SET date='$date', description='$description', category='$category', amount='$amount' WHERE id=$id";
38     mysqli_query($db, $query);
39     $_SESSION['msg'] = "Description updated";
40     header('location: welcome.php');
41 }
42
43 // delete
44 if (isset($_GET['del'])) {
45     $id = $_GET['del'];
46     $query = "DELETE FROM info WHERE id=$id";
47     mysqli_query($db, $query);
48     $_SESSION['msg'] = "Description deleted";
49     header('location: welcome.php');
50 }
```

I also used localhost/myAdmin to create database. So when user input their information, it kept in the database.



Down below is the register page. So when the user doesn't have an account, or if the user is new, they can register.



During the process of creating this web application, I pass through a lot of errors, like server error, syntax error, and error like “mysql_real_escape_string() expect exactly 2 parameters”, I’ve manage to fix the error. Screen shot of errors shown below.

Server error!

The server encountered an internal error and was unable to complete your request. Either the server is overloaded or there was an error in a CGI script.

If you think this is a server error, please contact the [webmaster](#).

Error 500

localhost
Apache/2.4.38 (Win64) OpenSSL/1.0.2r PHP/7.1.27

Warning: mysqli_real_escape_string() expects exactly 2 parameters, 1 given in C:\xampp\htdocs\assignment\login.php on line 10

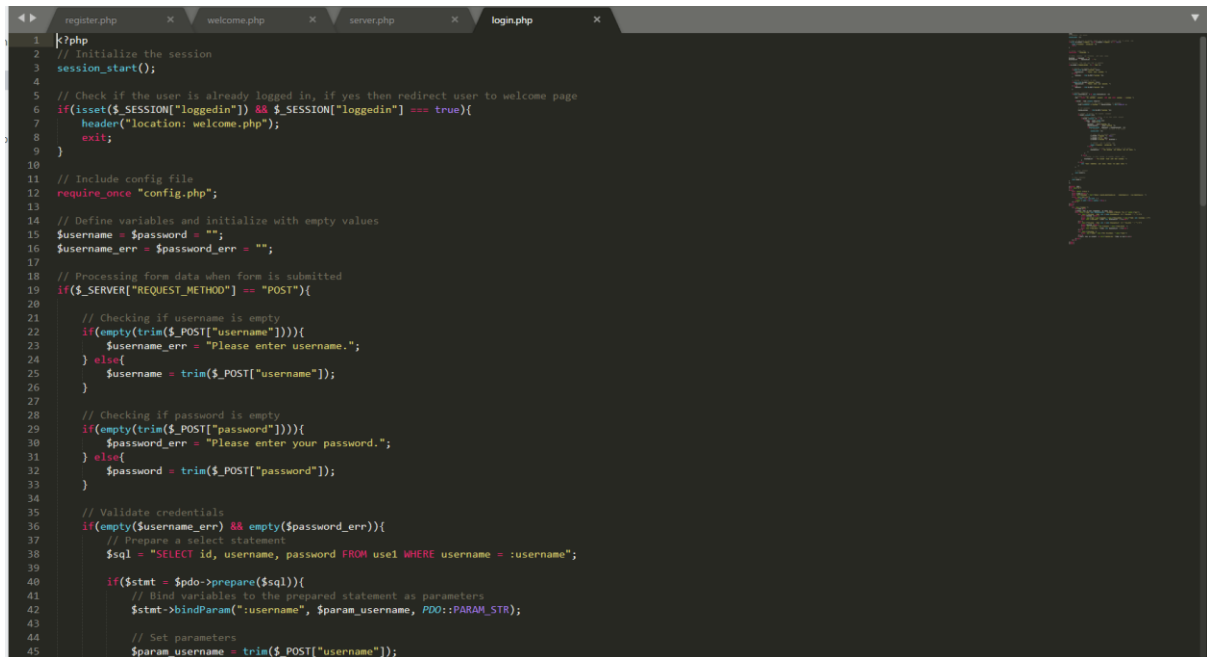
Warning: mysqli_real_escape_string() expects exactly 2 parameters, 1 given in C:\xampp\htdocs\assignment\login.php on line 11

Expenses Tracker

In these errors it took me a while to figure it out and also my tutor Ben helped me in these errors. The first error is server error, this occur when the web page is not available, and I used unavailable web link to enter from the primary web page. For example, I have a page called "login.php", from that page "login.php" I've use the code ` helloworld` to entered to another page which is not exist. This create the server error.

The second error “mysql_real_escape_string() expect exactly 2 parameters”, occur when I didn’t put “\$db” (which is the variable that connect to the database) to the particular line.

Login page, is when the user can login after they registered from the register page and once they registered, the information will be kept in the database.



```
1 <?php
2 // initialize the session
3 session_start();
4
5 // Check if the user is already logged in, if yes then redirect user to welcome page
6 if(isset($_SESSION["loggedin"]) && $_SESSION["loggedin"] === true){
7     header("location: welcome.php");
8     exit;
9 }
10
11 // Include config file
12 require_once "config.php";
13
14 // Define variables and initialize with empty values
15 $username = $password = "";
16 $username_err = $password_err = "";
17
18 // Processing form data when form is submitted
19 if($_SERVER["REQUEST_METHOD"] == "POST"){
20
21     // Checking if username is empty
22     if(empty(trim($_POST["username"]))){
23         $username_err = "Please enter username.";
24     } else{
25         $username = trim($_POST["username"]);
26     }
27
28     // Checking if password is empty
29     if(empty(trim($_POST["password"]))){
30         $password_err = "Please enter your password.";
31     } else{
32         $password = trim($_POST["password"]);
33     }
34
35     // Validate credentials
36     if(empty($username_err) && empty($password_err)){
37         // Prepare a select statement
38         $sql = "SELECT id, username, password FROM user WHERE username = :username";
39
40         if($stmt = $pdo->prepare($sql)){
41             // Bind variables to the prepared statement as parameters
42             $stmt->bindParam(":username", $param_username, PDO::PARAM_STR);
43
44             // Set parameters
45             $param_username = trim($_POST["username"]);
```

Logout page is create so that the user can logout when they finish using the web page. After the user click on the logout button, the page the redirect to the login page. As shown below

Logout

Login

Please fill in your credentials to login.

Username

Password

Login

Don't have an account? [Sign up now.](#)

Overall in this assignment I've created a simple "expenses tracker" web application. This assignment help me to understand the use of php, sql, connection between database and the web page as well as login system and registration system.