

## ASSIGNMENT-2

Project Name: Personal Expense Tracker

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Solution:

### Database Creation

```
CREATE TABLE IF NOT EXISTS `accounts` (  
    `id` int(11) NOT NULL AUTO_INCREMENT,  
    `username` varchar(50) NOT NULL,  
    `password` varchar(255) NOT NULL,  
    `email` varchar(100) NOT NULL,  
    PRIMARY KEY (`id`)  
) ENGINE=InnoDB AUTO_INCREMENT=2 DEFAULT CHARSET=utf8;
```

### CSS File

```
* {  
    box-sizing: border-box;  
  
    font-family: -apple-system, BlinkMacSystemFont, "segoe ui", roboto,  
oxygen, ubuntu, cantarell, "fira sans", "droid sans", "helvetica neue", Arial,  
sans-serif;  
  
    font-size: 16px;  
  
    -webkit-font-smoothing: antialiased;  
    -moz-osx-font-smoothing: grayscale;  
}  
  
body {  
    background-color: #435165;  
    margin: 0;  
}  
  
.login, .register {  
    width: 400px;  
    background-color: #ffffff;  
    box-shadow: 0 0 9px 0 rgba(0, 0, 0, 0.3);  
    margin: 100px auto;  
}  
  
.login h1, .register h1 {  
    text-align: center;  
    color: #5b6574;  
    font-size: 24px;
```

```
padding: 20px 0 20px 0;
border-bottom: 1px solid #dee0e4;
}

.login .links, .register .links {
    display: flex;
    padding: 0 15px;
}

.login .links a, .register .links a {
    color: #adb2ba;
    text-decoration: none;
    display: inline-flex;
    padding: 0 10px 10px 10px;
    font-weight: bold;
}

.login .links a:hover, .register .links a:hover {
    color: #9da3ac;
}

.login .links a.active, .register .links a.active {
    border-bottom: 3px solid #3274d6;
    color: #3274d6;
}

.login form, .register form {
    display: flex;
```

```
    flex-wrap: wrap;

    justify-content: center;

    padding-top: 20px;
}

.login form label, .register form label {

    display: flex;

    justify-content: center;

    align-items: center;

    width: 50px;

    height: 50px;

    background-color: #3274d6;

    color: #ffffff;
}

.login form input[type="password"], .login form input[type="text"], .login
form input[type="email"], .register form input[type="password"], .register
form input[type="text"], .register form input[type="email"] {

    width: 310px;

    height: 50px;

    border: 1px solid #dee0e4;

    margin-bottom: 20px;

    padding: 0 15px;
}

.login form input[type="submit"], .register form input[type="submit"] {
```

```

width: 100%;
padding: 15px;
margin-top: 20px;
background-color: #3274d6;
border: 0;
cursor: pointer;
font-weight: bold;
color: #ffffff;
transition: background-color 0.2s;
}

.login form input[type="submit"]:hover, .register form
input[type="submit"]:hover {
    background-color: #2868c7;
    transition: background-color 0.2s;
}

.navtop {
    background-color: #2f3947;
    height: 60px;
    width: 100%;
    border: 0;
}

.navtop div {
    display: flex;

```

```
        margin: 0 auto;
        width: 1000px;
        height: 100%;
    }

    .navtop div h1, .navtop div a {
        display: inline-flex;
        align-items: center;
    }

    .navtop div h1 {
        flex: 1;
        font-size: 24px;
        padding: 0;
        margin: 0;
        color: #eaebed;
        font-weight: normal;
    }

    .navtop div a {
        padding: 0 20px;
        text-decoration: none;
        color: #c1c4c8;
        font-weight: bold;
    }

    .navtop div a i {
```

```
padding: 2px 8px 0 0;
}
.navtop div a:hover {
    color: #eaebed;
}
body.loggedin {
    background-color: #f3f4f7;
}
.content {
    width: 1000px;
    margin: 0 auto;
}
.content h2 {
    margin: 0;
    padding: 25px 0;
    font-size: 22px;
    border-bottom: 1px solid #e0e0e3;
    color: #4a536e;
}
.content > p, .content > div {
    box-shadow: 0 0 5px 0 rgba(0, 0, 0, 0.1);
    margin: 25px 0;
    padding: 25px;
```

```

        background-color: #fff;
    }
    .content > p table td, .content > div table td {
        padding: 5px;
    }
    .content > p table td:first-child, .content > div table td:first-child {
        font-weight: bold;
        color: #4a536e;
        padding-right: 15px;
    }
    .content > div p {
        padding: 5px;
        margin: 0 0 10px 0;
    }

```

## Creating login System

```

from flask import Flask, render_template, request, redirect, url_for, session
from flask_mysqlldb import MySQL
import MySQLdb.cursors
import re

app = Flask(__name__)
app.secret_key = 'your secret key'
app.config['MYSQL_HOST'] = 'localhost'

```



```
app.config['MYSQL_USER'] = 'root'
app.config['MYSQL_PASSWORD'] = ''
app.config['MYSQL_DB'] = 'pythonlogin'
mysql = MySQL(app)

@app.route('/pythonlogin/', methods=['GET', 'POST'])
def login():
    msg = ''
    return render_template('index.html', msg=msg)

    if request.method == 'POST' and 'username' in request.form and
'password' in request.form:

        username = request.form['username']
        password = request.form['password']
        cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)
        cursor.execute('SELECT * FROM accounts WHERE username = %s
AND password = %s', (username, password,))
        account = cursor.fetchone()

        if account:
            session['loggedin'] = True
            session['id'] = account['id']
            session['username'] = account['username']
            return 'Logged in successfully!'
        else:
            msg = 'Incorrect username/password!'
```

```
@app.route('/pythonlogin/logout')
```

```
def logout():
```

```
    session.pop('loggedin', None)
```

```
    session.pop('id', None)
```

```
    session.pop('username', None)
```

```
    return redirect(url_for('login'))
```

```
@app.route('/pythonlogin/register', methods=['GET', 'POST'])
```

```
def register():
```

```
    msg = "
```

```
    if request.method == 'POST' and 'username' in request.form and  
'password' in request.form and 'email' in request.form:
```

```
        username = request.form['username']
```

```
        password = request.form['password']
```

```
        email = request.form['email']
```

```
elif request.method == 'POST':
```

```
    msg = 'Please fill out the form!'
```

```
return render_template('register.html', msg=msg)
```

```
    cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)
```

```
    cursor.execute('SELECT * FROM accounts WHERE username = %s',  
(username,))
```

```
    account = cursor.fetchone()
```

```
    if account:
```

```
        msg = 'Account already exists!'
```

```

elif not re.match(r'^@]+@[^@]+\.[^@]+', email):
    msg = 'Invalid email address!'
elif not re.match(r'[A-Za-z0-9]+', username):
    msg = 'Username must contain only characters and numbers!'
elif not username or not password or not email:
    msg = 'Please fill out the form!'
else:
    cursor.execute('INSERT INTO accounts VALUES (NULL, %s, %s, %s)',
(username, password, email,))
    mysql.connection.commit()
    msg = 'You have successfully registered!'

```

## Index .html file

```

<!DOCTYPE html>
<html>
    <head>
        <meta charset="utf-8">
        <title>Login</title>
        <link rel="stylesheet" href="{{ url_for('static', filename='style.css')
    }}">
        <link rel="stylesheet"
href="https://use.fontawesome.com/releases/v5.7.1/css/all.css">
    </head>

```

```
<body>
    <div class="login">
        <h1>Login</h1>
        <div class="links">
            <a href="{{ url_for('login') }}"
class="active">Login</a>
            <a href="#">Register</a>
        </div>
        <form action="{{ url_for('login') }}" method="post">
            <label for="username">
                <i class="fas fa-user"></i>
            </label>
            <input type="text" name="username"
placeholder="Username" id="username" required>
            <label for="password">
                <i class="fas fa-lock"></i>
            </label>
            <input type="password" name="password"
placeholder="Password" id="password" required>
            <div class="msg">{{ msg }}</div>
            <input type="submit" value="Login">
        </form>
    </div>
</body>
```

</html>

Register.html

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8">

<title>Register</title>

<link rel="stylesheet" href="{{ url\_for('static', filename='style.css')  
}}">

<link rel="stylesheet"  
href="https://use.fontawesome.com/releases/v5.7.1/css/all.css">

</head>

<body>

<div class="register">

<h1>Register</h1>

<div class="links">

<a href="{{ url\_for('login') }}">Login</a>

<a href="{{ url\_for('register') }}"  
class="active">Register</a>

</div>

<form action="{{ url\_for('register') }}" method="post"  
autocomplete="off">

<label for="username">

<i class="fas fa-user"></i>

```

        </label>

        <input          type="text"          name="username"
placeholder="Username" id="username" required>

        <label for="password">

            <i class="fas fa-lock"></i>

        </label>

        <input      type="password"      name="password"
placeholder="Password" id="password" required>

        <label for="email">

            <i class="fas fa-envelope"></i>

        </label>

        <input          type="email"          name="email"
placeholder="Email" id="email" required>

        <div class="msg">{{ msg }}</div>

        <input type="submit" value="Register">

    </form>

</div>

</body>

</html>

```

Output:

## Register

Login **Register**

 Username

 Password

 Email

You have successfully registered!

**Register**