**Lab Seven**

**Name:** Zekariyas Gebremedhin

**Course:** SDEV 300

**Professor:** Armando Quintananieve

**Date**: 7/4/2023

**Files**

* One python file. app.py
* Six html files. Index.htm, calculator.html, home.html, login.html, register.html, result.htm
* one CSS files. Style.css
* Four images. Image1.japg, image2.jpg, image3.jpg, image4.jpg

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Test Case** | **Test Description** | **Procedure** | **Input** | **Expected Output** | **Actual Output** | **Pass?** |
| 1 | Test if the home page is properly displayed | + run app.py  + click on <http://127.0.0.1:5000> | None | Home page will be displayed | Home page is displayed | Yes |
| 2a-a | Test if the web register users | + run app.py  + click on <http://127.0.0.1:5000>  + type ‘adey’ in username filed.  + type ‘123!@#qweQWE’ for password  + click register | Username - adey  Password - 123!@#qweQWE | The web will be routed to the login page | The web is routed to the login page |  |
| 2a-b | Test if the web can check if the password meets the requirements during registration. | + run app.py  + click on <http://127.0.0.1:5000>  + type ‘adey’ in username filed.  + type ‘123qwe’ for password  + click register | Username - adey  Password - 123qwe | Error message will be displayed | Error message displayed |  |
| 2a-c | Test if the registration form displays a message when clicked without any input. | + run app.py  + click on <http://127.0.0.1:5000>  + click register | None | Error message will be displayed | Error message displayed |  |
| 2b-a | Test if the web lets you login after completion of registration. | + run app.py  + click on <http://127.0.0.1:5000>  + type ‘adey’ in username filed.  + type ‘123!@#qweQWE’ for password  + click register  + type ‘adey’ in username filed.  + type ‘123!@#qweQWE’ for password  + click on login | Username - adey  Password - 123!@#qweQWE | The web will be routed to the calculator page | The web is routed to the calculator page |  |
| 2b-c | Test if the web a allows to logout from the calculator page | + run app.py  + click on <http://127.0.0.1:5000>  + type ‘adey’ in username filed  + type ‘123!@#qweQWE’ for password  + click register  + type ‘adey’ in username filed.  + type ‘123!@#qweQWE’ for password  + click on login.  + click on logout | none | The web will be routed back to the home page | The web is routed to the home page |  |
| 3a-a | Test if the page performs addition correctly | + run app.py  + click on <http://127.0.0.1:5000>  + complete the registration and login forms.  + type ‘2' and ‘3’ in the first and second fields respectively.  + Select ‘addition’ from the drop-down list. | 4,5 | 9 | 9 | Yes |
| 3a-b | Test if the page performs substruction correctly | + run app.py  + click on <http://127.0.0.1:5000>  + complete the registration and login forms.  + type ‘2' and ‘3’ in the first and second fields respectively.  + Select ‘subtraction’ from the drop-down list. | 4,5 | -1.0 | -1.0 | Yes |
| 3b-c | Test if the page performs division correctly | + run app.py  + click on <http://127.0.0.1:5000>  + complete the registration and login forms.  + type ‘6' and ‘3’ in the first and second fields respectively.  + Select ‘division’ from the drop-down list. | 4, 5 | 0.8 | 0.8 | Yes |
| 3b-d | Test if the page performs multiplication.  correctly | + run app.py  + click on <http://127.0.0.1:5000>  + complete the registration and login forms.  + type ‘2' and ‘3’ in the first and second fields respectively.  + Select ‘multiplication’ from the drop-down list. | 4,5 | 20.0 | 20.0 | Yes |
| 4a-a | Test if the background image properly displayed on the home page. | + run app.py  + click on <http://127.0.0.1:5000> | Username - adey  Password - 123!@#qweQWE | Background image will be displayed. | Background image is be displayed. | Yes |
| 4a-b | Test if the background image properly displayed on the login page. | + run app.py  + click on <http://127.0.0.1:5000>  + type ‘adey’ in username filed.  + type ‘123!@#qweQWE’ for password  + click on register. | Username - adey  Password - 123!@#qweQWE | Background image will be displayed. | Background image is be displayed. | Yes |
| 4a-c | Test if the background image properly displayed on the login page. | + run app.py  + click on <http://127.0.0.1:5000>  + type ‘adey’ in username filed.  + type ‘123!@#qweQWE’ for password  + click on register.  + type ‘adey’ in username filed.  + type ‘123!@#qweQWE’ for password  + click on login. | Username - adey  Password - 123!@#qweQWE | Background image will be displayed. | Background image is be displayed. | Yes |
| 5 | Test if the multiplication table is displayed on the home page. | + run app.py  + click on <http://127.0.0.1:5000> | None | Multiplication table will be displayed | Multiplication table is displayed | Yes |

**Screenshots.**

1

A blue calculator with white squares

Description automatically generated with low confidence

2a-a

A screen shot of a computer

Description automatically generated with medium confidence

A computer screen with a login box

Description automatically generated with low confidence

2a-b



2a-c

A close up of a computer screen

Description automatically generated

2b-a

A screenshot of a computer

Description automatically generated

3a-a

A screenshot of a computer

Description automatically generated with low confidence

3a-b

A screenshot of a computer

Description automatically generated with low confidence

3a-c

A screenshot of a computer

Description automatically generated with medium confidence

3a-d

A screenshot of a computer

Description automatically generated with medium confidence

4a-a

A picture containing text, diagram, screenshot, font

Description automatically generated

4a-b

A screenshot of a computer

Description automatically generated with medium confidence

4a-c

A screenshot of a computer

Description automatically generated with medium confidence

5

A white and blue math table with purple numbers

Description automatically generated

**Pylint Analysis**

**1st Try**

**A screen shot of a computer program

Description automatically generated**

**2nd Try**

**A screenshot of a computer

Description automatically generated with medium confidence**