**Lab Eight**

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**Course:** SDEV 300

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**Files**

* One python file. app.py
* Seven html files. Index.htm, calculator.html, home.html, login.html, register.html, result.htm, update\_password.html
* one CSS file. Style.css
* Four images. Image1.japg, image2.jpg, image3.jpg, image4.jpg
* One Text, one .log file. Login\_attempts.log, CommonPasswords.txt

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| --- | --- | --- | --- | --- | --- | --- |
| **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 allows users to register. | + 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 | Yes |
| 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 | Yes |
| 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 | Yes |
| 2a-d | Check if the web compares the prospective secrete with the list in CommonPasswords.txt | + run app.py  + click on <http://127.0.0.1:5000>  + type ‘adey’ in username filed.  + type ‘password’ for password  + click register | Username - adey  Password - password | Error message ‘password is too common. Please choose a different password ‘will be displayed | Error message ‘‘password is too common. Please choose a different password ‘is displayed. | Yes |
| 2a-e | Test if the user login once registered. | + 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 login | Username - adey  Password - 123!@#qweQWE | The web will be routed to the calculator page. | The web routed into the calculator page. | Yes |
| 3a-a | Test if the web allows users to change their password. | + run app.py  + click on <http://127.0.0.1:5000>  + type ‘adey’ in username filed.  + type ‘123!@#qweQWE’ for password  + click register  + click on update password link.  + type ‘123!@#qweQWE’ in old password field  + type ‘qweQWE123!@# in the new password field. | Old Password: ‘123!@#qweQWE’  New password: ‘qweQWE123!@#’ | Password will be successfully updated and the web rerouted back to the calculator page. | Password is successfully updated and the web rerouted back to the calculator page. | Yes |
| 3a-b | Test if the web display error message when user enter wrong old password during updating the password. | + run app.py  + click on <http://127.0.0.1:5000>  + type ‘adey’ in username filed.  + type ‘123!@#qweQWE’ for password  + click register  + click on update password link.  + type ‘123’ in old password field  + type ‘qweQWE123!@# in the new password field. | Old Password: ‘123!@#qweQWE’  New password: ‘qweQWE123!@#’ | error message ‘Invalid Old Password’ will be displayed. | error message ‘Invalid Old Password’ is displayed | Yes |
| 3a-c | Check if the web displays an error message when user attempts to enter a common password during password changing process. | + run app.py  + click on <http://127.0.0.1:5000>  + type ‘adey’ in username filed.  + type ‘123!@#qweQWE’ for password  + click register  + click on update password link.  + type ‘password’ in old password field  + type ‘qweQWE123!@# in the new password field. | Old Password: ‘123!@#qweQWE’  New password: ‘password’ | error message ‘password is too common. Please choose a different password’ will be displayed. | error message ‘password is too common. Please choose a different password’ is displayed | Yes |
| 4a | Test if the code registers all failed login attempts. | + run app.py  + click on <http://127.0.0.1:5000>  + type ‘adey’ in username filed.  + type ‘123’ for password | Username - adey  Password - f | A logger will register the date, time, Ip address of the failed login attempt. | A logger registered the date, time, Ip address of the failed login attempt. | Yes |

**Screenshots**

1

**A blue and white logo

Description automatically generated**

2a-a

**A logo of a company

Description automatically generated**

2a-b

A blue screen with red text

Description automatically generated

2a-c

A blue and white background with a white and black text

Description automatically generated

2a-d

A screen shot of a computer

Description automatically generated

2a-e

A screenshot of a computer

Description automatically generated

3a-a

A screen shot of a computer

Description automatically generated

3a-b

A screen shot of a computer

Description automatically generated

3a-c

A screen shot of a computer

Description automatically generated

4a



A computer screen shot of a blue screen

Description automatically generated

**Part II**

1. - .... .. ... / ... -.. . ...- / ...-- ----- ----- / -.-. .-.. .- ... ... / .... .- ... / ... --- -- . / ... - .-. .- -. --. . / .-. . --.- ..- . ... - ... .-.-.- (Morse Code)

**Decrypted Message:** THIS SDEV 300 CLAS S HAS SOME STRANGE REQ UESTS.

A screenshot of a computer

Description automatically generated

1. U28gdGhpcyBpcyBiYXNlNjQuIE5vdyBJIGtub3cu (Base64)

***Decrypted Message***: So this is base64. Now I know.

A screenshot of a computer

Description automatically generated

1. --- Psuwb Ysm ----

W oa gc qzsjsf. Bc cbs qcizr dcggwpzm twuifs hvwg cih.

--- Sbr Ysm --- (Caesar)

***Decrypted Message*** : o. --- Begin Key ----  I am so clever. No one could possibly figure this out.  --- End Key ---

A screenshot of a computer

Description automatically generated

**Pylint Analysis**

1st Try:

A screenshot of a computer program

Description automatically generated

2nd Try:

A screenshot of a computer screen

Description automatically generated