**LAB #7 – Python Web Page Code (Forms, Images, Tables)**

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Course – SDEV 300

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**Pylint results for** **Python Web Page Code Program (forms and table and more images) …**………………….………………………………………….18

# **Test Plan**

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| **Test Case # 1 - Testing the creation of secure Login form** | |
| **Input** | cd C:\Users\herma\Desktop\sdev300\_mann\_herman\_lab7\_forms  set FLASK\_APP=website\_app.py  flask run  Entering already created username: dbook  Entering already created password: NbaBasketball21@  Clicking “Submit” button |
| **Expected Output** | The website\_app server starts successfully and does not encounter any errors/issues  Gives server link upon successful execution: <http://127.0.0.1:5000>  After successful login, brings the user to the homepage (the index webpage) where it will show the accompanying content of the website for the user to navigate |
| **Actual Output** | The website\_app server starts successfully and does not encounter any errors/issues  Gives server link upon successful execution: <http://127.0.0.1:5000>  After successful login, brings the user to the homepage (the index webpage) where it will show the accompanying content of the website for the user to navigate |
| **Pass?** | **YES** |
| **Screenshots** | Graphical user interface  Description automatically generated with medium confidence  Graphical user interface, text, application  Description automatically generated |

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| **Test Case # 2 - Testing the creation of secure Registration form** | |
| **Input** | cd C:\Users\herma\Desktop\sdev300\_mann\_herman\_lab7\_forms  set FLASK\_APP=website\_app.py  flask run  Entering username into “Registration Form”: hermanMann34  Entering password into “Registration Form”: LebronJames45@ |
| **Expected Output** | The website\_app server starts successfully and does not encounter any errors/issues  Gives server link upon successful execution: <http://127.0.0.1:5000>  After successful “Registration”, it brings the user to the login page (the login form to let user login with registered account) where it will then show the accompanying content of the website for the user to navigate after successful login. |
| **Actual Output** | The website\_app server starts successfully and does not encounter any errors/issues  Gives server link upon successful execution: <http://127.0.0.1:5000>  After successful “Registration”, it brings the user to the login page (the login form to let user login with registered account) where it will then show the accompanying content of the website for the user to navigate after successful login. |
| **Pass** | **YES** |
| **Screenshots** | Graphical user interface, text, application  Description automatically generated with medium confidence  **Successful Registration message will be produced on login form**  Graphical user interface, website  Description automatically generated |

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| **Test Case # 3 – Testing after logging and accessing the “table" of NBA Playoffs and more** | |
| **Input** | cd C:\Users\herma\Desktop\sdev300\_mann\_herman\_lab7\_forms  set FLASK\_APP=website\_app.py  flask run  Entering username into “login Form”: hermanMann34  Entering password into “login Form”: LebronJames45@ |
| **Expected Output** | The website\_app server starts successfully and does not encounter any errors/issues  Gives server link upon successful execution: <http://127.0.0.1:5000>  Successfully opens the link with the associated content  Produces the table with the accompanied rows and columns of the current NBA Playoffs, a few names of famous athletes, and famous NBA teams who made it in the playoffs in the past as links to external websites for more information properly done. |
| **Actual Output** | The website\_app server starts successfully and does not encounter any errors/issues  Gives server link upon successful execution: http://127.0.0.1:5000  Successfully opens the link with the associated content  Produces the table with the accompanied rows and columns of the current NBA Playoffs, a few names of famous athletes, and famous NBA teams who made it in the playoffs in the past as links to external websites for more information properly done. |
| **Pass** | **YES** |
| **Screenshots** | Graphical user interface  Description automatically generated with low confidence  **Graphical user interface, application, website  Description automatically generated**  **A picture containing text  Description automatically generated** |

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| **Test Case # 4 –**  **Testing of Registering when user already exists** | |
| **Input** | cd C:\Users\herma\Desktop\sdev300\_mann\_herman\_lab7\_forms  set FLASK\_APP=website\_app.py  flask run  Entering already registered username: hermanMann34  Entering new password: ComputerScience93@ |
| **Expected Output** | The website\_app server starts successfully and does not encounter any errors/issues  Gives server link upon successful execution: <http://127.0.0.1:5000>  Produces the Registration page after user clicks on the button “Register here Today!”  “Username already registered”. (Message is produced after same user attempts to register) |
| **Actual Output** | The website\_app server starts successfully and does not encounter any errors/issues  Gives server link upon successful execution: http://127.0.0.1:5000  Produces the Registration page after user clicks on the button “Register here Today!”  “Username already registered”. (Message is produced after same user attempts to register) |
| **Pass** | **YES** |
| **Screenshots**  **­­** | ­­  “Username already registered”. (Message is produced after same user attempts to register)  Graphical user interface, text  Description automatically generated |

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| **Test Case # 5 –** **Testing of entering not as complex password for Registration form** | |
| **Input** | cd C:\Users\herma\Desktop\sdev300\_mann\_herman\_lab7\_forms  set FLASK\_APP=website\_app.py  flask run  Entered new username into Registration Form: TheComputerGuy32  Entering not as complex password into Registration Form: ferrariguy55 |
| **Expected Output** | The website\_app server starts successfully and does not encounter any errors/issues  Gives server link upon successful execution: <http://127.0.0.1:5000>  “The entered password is not complex enough.” will be displayed on top left corner of the Registration Form. |
| **Actual Output** | The website\_app server starts successfully and does not encounter any errors/issues  Gives server link upon successful execution: <http://127.0.0.1:5000>  “The entered password is not complex enough.” will be displayed on top left corner of the Registration Form. |
| **Pass** | **YES** |
| **Screenshots**  **­­** | ­­  Text  Description automatically generated with medium confidence |

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| **Test Case # 6 –** Testing of logout button to logout of website | |
| **Input** | cd C:\Users\herma\Desktop\sdev300\_mann\_herman\_lab7\_forms  set FLASK\_APP=website\_app.py  flask run  After logging in successfully, I clicked the login button to logout of the website. |
| **Expected Output** | The website\_app server starts successfully and does not encounter any errors/issues  Gives server link upon successful execution: <http://127.0.0.1:5000>  “You have successfully logged out.” Message gets produced on the login form of the website. |
| **Actual Output** | The website\_app server starts successfully and does not encounter any errors/issues  Gives server link upon successful execution: http://127.0.0.1:5000  “You have successfully logged out.” Message gets produced on the login form of the website. |
| **Pass** | **YES** |
| **Screenshots**  **­­** | ­­  Hitting the “Logout” button to log out of website  Graphical user interface, application  Description automatically generated  “You have successfully logged out.” Message gets produced after user clicks on “logout” button.  Graphical user interface  Description automatically generated |

Pylint results for Python Web Page Code Program

Graphical user interface, text

Description automatically generated with medium confidence

Throughout the completion of this lab which focused on adding a little more Flask Functionality such as the creation of the login form, the registration form, and the table and images for the website I got to expand my further knowledge in the content areas of Python Flask, HTML, CSS, and using more advanced Python language functionality. Moreover, it was great to understand how to create a password complexity for the login form of my website as I did not know how to do this before and showed me how to be more prepared for the near future for creating more forms in HTML and CSS and using Python programming functionality itself. Discussing my PYLINT results in great depth, I had a lot of “trailing whitespace” issues which dealt with the Convention section of errors, I had 1 refactor error which was not using “with” for opening a file I just did “open (NEW\_PASS\_FILE, "w").close()” and it should’ve been “with open(NEW\_PASS\_FILE, "w") as file:

file.close()”

Also, I encountered the error of “Unable to import ‘passlib.hash’” as I was using statements from this import file and I was very confused and surprised why I was unable to import this specific file in my Python environment. I still had the issue towards the end, and I could not find any ways to come about and fix the error overall. In the future for the last lab I look forward to fixing this major issue and getting it solved so my PYLINT score will result in a perfect “10.00/10”.