**LAB #6 – Python Web Page Code**

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Course – SDEV 300

Date – 04/28/2022

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# **Test Plan**

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| **Test Case # 1 - website\_app server starts without any issues** | |
| **Input** | cd C:\Users\herma\Desktop\sdev300\_lab6\_files  set FLASK\_APP=website\_app.py  flask run |
| **Expected Output** | The website\_app server starts successfully and does not encounter any errors/issues |
| **Actual Output** | The website\_app server starts successfully and does not encounter any errors/issues |
| **Pass?** | **YES** |
| **Screenshots** | Text  Description automatically generated |

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| **Test Case # 2 - opening up the url to index.html given after running server successfully** | |
| **Input** | cd C:\Users\herma\Desktop\sdev300\_lab6\_files  set FLASK\_APP=website\_app.py  flask run |
| **Expected Output** | The website\_app server starts successfully and does not encounter any errors/issues.  Clicking on the url: <http://127.0.0.1:5000> and opens successfully and directs to the index.html webpage which is the first  Route and is the root route |
| **Actual Output** | The website\_app server starts successfully and does not encounter any errors/issues.  Clicking on the url: <http://127.0.0.1:5000> and opens successfully and directs to the index.html webpage which is the first  Route and is the root route |
| **Pass** | **YES** |
| **Screenshots** | Text  Description automatically generated  Graphical user interface, text, application, email  Description automatically generated |

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| **Test Case # 3 – France.html route rendering without errors/issues** | |
| **Input** | cd C:\Users\herma\Desktop\sdev300\_lab6\_files  set FLASK\_APP=website\_app.py  flask run |
| **Expected Output** | The website\_app server starts successfully and does not encounter any errors/issues.  Clicking on the url: <http://127.0.0.1:5000> and opens successfully and directs to the index.html webpage which is the first Route and is the root route. Then when clicking on the France button, successfully opens up the France.html webpage and displays the content that should be on it as appropriate |
| **Actual Output** | The website\_app server starts successfully and does not encounter any errors/issues.  Clicking on the url: <http://127.0.0.1:5000> and opens successfully and directs to the index.html webpage which is the first Route and is the root route. Then when clicking on the France button, successfully opens up the France.html webpage and displays the content that should be on it as appropriate |
| **Pass** | **YES** |
| **Screenshots** | **Text  Description automatically generated**    **Graphical user interface, application, Word  Description automatically generated**  **Text  Description automatically generated with low confidence** |

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| **Test Case # 4 –**  **Spain.html route rendering without errors/issues** | |
| **Input** | cd C:\Users\herma\Desktop\sdev300\_lab6\_files  set FLASK\_APP=website\_app.py  flask run |
| **Expected Output** | The website\_app server starts successfully and does not encounter any errors/issues.  Clicking on the url: <http://127.0.0.1:5000> and opens successfully and directs to the index.html webpage which is the first Route and is the root route. Then when clicking on the Spain button, successfully opens up the Spain.html webpage and displays the content that should be on it as appropriate |
| **Actual Output** | The website\_app server starts successfully and does not encounter any errors/issues.  Clicking on the url: <http://127.0.0.1:5000> and opens successfully and directs to the index.html webpage which is the first Route and is the root route. Then when clicking on the Spain button, successfully opens up the Spain.html webpage and displays the content that should be on it as appropriate |
| **Pass** | **YES** |
| **Screenshots**  **­­** | Text  Description automatically generated­­  Graphical user interface, text, application, email  Description automatically generated  Graphical user interface, application  Description automatically generatedGraphical user interface, text, application, email  Description automatically generated |

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| **Test Case # 5 –** **Germany.html route rendering without errors/issues** | |
| **Input** | cd C:\Users\herma\Desktop\sdev300\_lab6\_files  set FLASK\_APP=website\_app.py  flask run |
| **Expected Output** | The website\_app server starts successfully and does not encounter any errors/issues.  Clicking on the url: <http://127.0.0.1:5000> and opens successfully and directs to the index.html webpage which is the first Route and is the root route. Then when clicking on the Germany button, successfully opens up the Germany.html webpage and displays the content that should be on it as appropriate |
| **Actual Output** | The website\_app server starts successfully and does not encounter any errors/issues.  Clicking on the url: <http://127.0.0.1:5000> and opens successfully and directs to the index.html webpage which is the first Route and is the root route. Then when clicking on the Germany button, successfully opens up the Germany.html webpage and displays the content that should be on it as appropriate |
| **Pass** | **YES** |
| **Screenshots**  **­­** | ­­  Text  Description automatically generated  Text  Description automatically generated  Text  Description automatically generated |

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| **Test Case # 6 –** **href links to external pages called from route** | |
| **Input** | cd C:\Users\herma\Desktop\sdev300\_lab6\_files  set FLASK\_APP=website\_app.py  flask run |
| **Expected Output** | The website\_app server starts successfully and does not encounter any errors/issues.  Clicking on the url: <http://127.0.0.1:5000> and opens successfully and directs to the index.html webpage which is the first Route and is the root route. The web browser appropriately navigates to and sufficiently resolves each of the external web pages as selected from each of the route pages such as index.html, Spain.html, Germany.html, and France.html |
| **Actual Output** | The website\_app server starts successfully and does not encounter any errors/issues.  Clicking on the url: <http://127.0.0.1:5000> and opens successfully and directs to the index.html webpage which is the first Route and is the root route. The web browser appropriately navigates to and sufficiently resolves each of the external web pages as selected from each of the route pages such as index.html, Spain.html, Germany.html, and France.html |
| **Pass** | **YES** |
| **Screenshots**  **­­** | Text  Description automatically generated­­  Selecting the:  More can be learned about the specific facts and things in that regard about Spain [Here](https://kids.nationalgeographic.com/geography/countries/article/spain). Also, [Here](https://www.britannica.com/place/Spain).  Which will go to the external link in another webpage  Text  Description automatically generated  External Link on another webpage:A picture containing graphical user interface  Description automatically generated  Text  Description automatically generated  Selecting the:  More information can be learned about the country of Germany [Here](https://www.britannica.com/place/Germany). More interesting facts can be found out about Germany [Here](https://www.studying-in-germany.org/interesting-facts-about-germany/).  External Link on another webpage:  Graphical user interface, application, Teams  Description automatically generated |

Text

Description automatically generatedPylint results for Python Web Page Code Program

Throughout the completion of this lab which focused on using the python flask framework to create a website with routes thought me a lot on how to handle the program in complex ways and to then make my PYLINT score much closer to “10.00/10” than the other labs completed for this class. In fact, with this lab, the majority of my issues with my overall PYLINT score came with the Conventional type of errors such as “trailing whitespace” or missing docstring for functions that I had created, and not having a certain import statement in the correct order, but other than that my PYLINT score was close to a “10.00/10” most of the time. I encountered zero errors, 1-2 warnings such as “No use of string here” and conventional as said earlier white space and the import statements and not having another newline after the end of the code of the overall program. This lab taught me a lot about thinking critically with my code and of other ways and steps to make my PYLINT score even more better the next time around.