COMP0034 Coursework 2

1. Web APP

Run the app with following code in terminal: python src/PastaSales_dash.py

Here is the screenshot of the web app.

2. *Test Code*

Run the test with code: pytest

There are 7 tests in total:

- Test 1 is used to check if the server is live.
- Test 2 is used to check if the home page works properly.
- Test 3 is used to check if the bar chart works properly.
- Test 4 is used to check if the first line chart works correctly.
- Test 5 is used to check if the second line chart works correctly.
- Test 6 is used to check if the check list works correctly.
- Test 7 is used to check if the dropdown works correctly.

Here is the screenshot of the test results. The test timeout is set to 20 seconds for each test. The time taken to finish the test could change if the tests are running on different local devices. The time taken of each test could be over 20 seconds and result test failure. If the test is caused by timeout. The timeout period can be extended to avoid this situation.

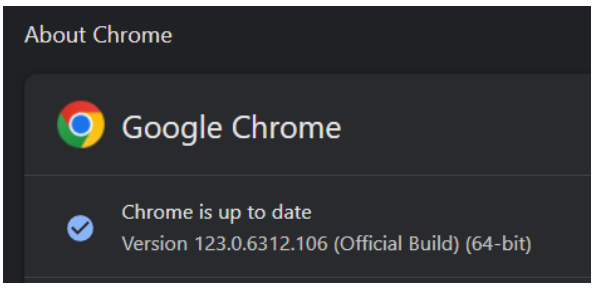
```
DevTools listening on ws://127.0.0.1:51239/devtools/browser/4178731b-e575-466d-8715-582b06898da2
collected 7 items

tests/app_test.py::test_server_live
DevTools listening on ws://127.0.0.1:9222/devtools/browser/84179c8b-3ec0-438c-b3df-567e032aab64
[18636:17212:0405/114800.787:ERROR:device_event_log_impl.cc(195)] [11:48:00.787] USB: usb_service_win.cc:105 SetupDiGetDeviceProperty({{A45C254E-DF1
C-4EFD-8020-67D146A850E0}, 6}) failed: Element not found. (0x490)
PASSED                                                                                                                  [ 14%][35692:41052:0405/114806.114:ERROR:co
mmand_buffer_proxy_impl.cc(323)] GPU state invalid after WaitForGetOffsetInRange.
[35692:41052:0405/114806.117:ERROR:command_buffer_proxy_impl.cc(323)] GPU state invalid after WaitForGetOffsetInRange.

tests/app_test.py::test_home_h1textequals
DevTools listening on ws://127.0.0.1:9222/devtools/browser/09933ee6-090e-4f3e-9c70-fd26f76b5c74
PASSED                                                                                                                  [ 28%]
tests/app_test.py::test_bar_chart_exists
DevTools listening on ws://127.0.0.1:9222/devtools/browser/6c466865-217c-488e-9d09-49e5b1d8b657
PASSED                                                                                                                  [ 42%]
tests/app_test.py::test_line_chart_1_exists
DevTools listening on ws://127.0.0.1:9222/devtools/browser/1e1b1adf-25ff-49f6-a068-01824e5a7de0
PASSED                                                                                                                  [ 57%]
tests/app_test.py::test_line_chart_2_exists
DevTools listening on ws://127.0.0.1:9222/devtools/browser/2f158204-43cb-44f1-8de1-e6a32e9db953
PASSED                                                                                                                  [ 71%]
tests/app_test.py::test_button_click_changes_page
DevTools listening on ws://127.0.0.1:9222/devtools/browser/d1da1d66-5e13-443b-ad6b-32d145d595c1
PASSED                                                                                                                  [ 85%]
tests/app_test.py::test_dropdown_has_correct_options
DevTools listening on ws://127.0.0.1:9222/devtools/browser/4df8cc2c-6865-4b86-90cc-518539ae4738
PASSED                                                                                                                  [100%]

============================================================ 7 passed in 51.99s ============================================================
(.venv) PS C:\Users\yy131\Downloads\comp0034-cw2i-YueYang101> INFO: Created TensorFlow Lite XNNPACK delegate for CPU.
```

The chrome installed on the local device is 123.0.6312.106 version.



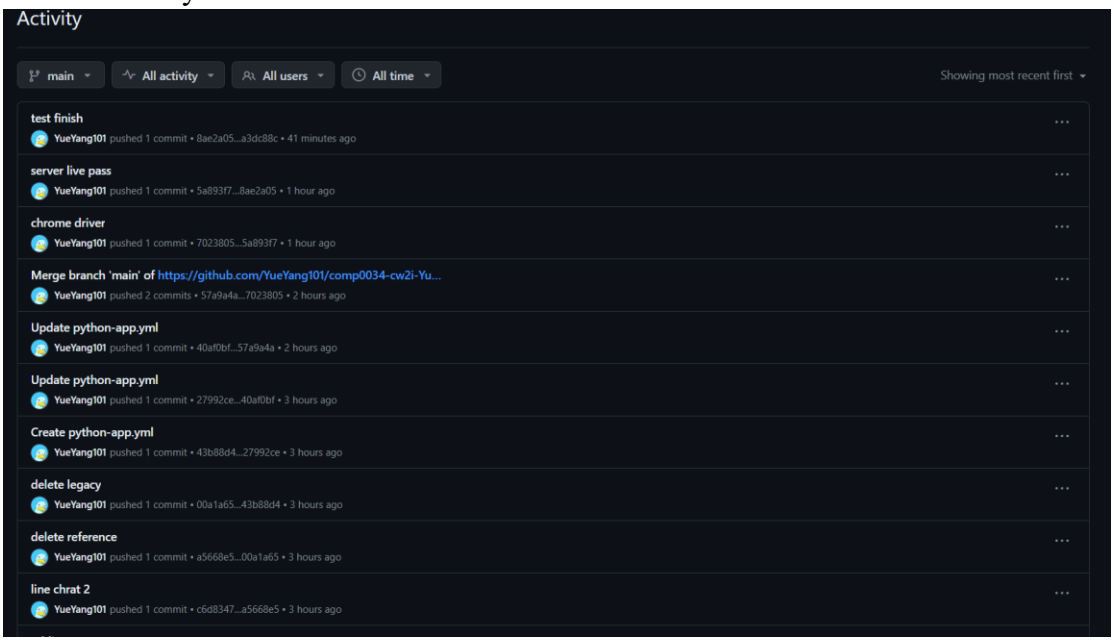
The chrome driver added into the app test folder is 123.0.6312.105 version win 64 platform. Chrome driver could not work properly if the installed chrome version does not match itself.

chromedriver	win64	https://storage.googleapis.com/chrome-for-testing-public/123.0.6312.105/win64/chromedriver-win64.zip

3. *Use of tools and techniques*

Source code control:

1. A GitHub repository is created for source code control. And VS Code is used as the IDE to run the codes.
2. GitHub repository URL link: https://github.com/YueYang101/comp0034-cw2i-YueYang101
3. commit history



4. View the workflow (GitHub Action) https://github.com/ucl-comp0035/comp0034-cw1i-YueYang101/actions

4. *Reference*

- Use of AI: ChatGPT-4, Copilot
- Publisher: OpenAI
- URL of the AI system: https://chat.openai.com/
- The ChatGPT and copilot are used for searching the terminal output message to solve the errors. At the same time, the copilot can help with generating the repetitive codes.
- Reference Dataset:
  Mancuso, Paolo; Piccialli, Veronica; Sudoso, Antonio M. (2021), “Data for: A machine learning approach for forecasting hierarchical time series”, Mendeley Data, V1, doi: 10.17632/njdkntcpc9.1