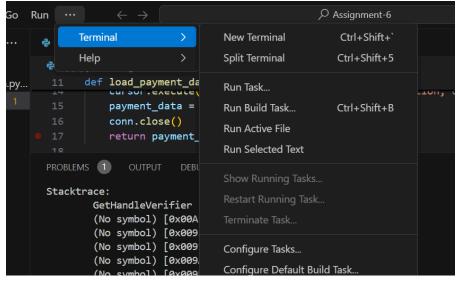
# Running the test e2e registration.py - Steven Guan

- This end to end test simulates user registration in 4 circumstances: 1-successful registration, 2-registration using a duplicate email, 3-mismatching password for verification and 4-having missing fields in the form.
- 1. Install: pip install selenium webdriver-manager in your terminal
- 2. Create two new terminals



3. In the first terminal: make the assignment6 folder the current working directory and then run: **python app.py** - in order to open a connection to the local host

```
PROBLEMS 6 OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\steve\OneDrive\Documents\Visual Studio Code\Cisc327-GROUP51-main> cd .\Assignment-6\
PS C:\Users\steve\OneDrive\Documents\Visual Studio Code\Cisc327-GROUP51-main\Assignment-6> python app.py

* Serving Flask app "app" (lazy loading)

* Environment: production

WARNING: This is a development server. Do not use it in a production deployment.

Use a production WSGI server instead.

* Debug mode: on

* Restarting with watchdog (windowsapi)

* Debugger is active!

* Debugger PIN: 685-816-567

* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
```

4. In the second terminal change the working directory to the "end\_to\_end\_tests" folder which is located in the tests directory and run **python test e2e registration.py** 

5. The results should look as so:

```
PS C:\Users\steve\OneDrive\Documents\Visual Studio Code\Cisc327-GROUP51-main> cd .\Assignment-5\
PS C:\Users\steve\OneDrive\Documents\Visual Studio Code\Cisc327-GROUP51-main\Assignment-5> cd .\tests\
PS C:\Users\steve\OneDrive\Documents\Visual Studio Code\Cisc327-GROUP51-main\Assignment-5\tests> python .\sel_test_registration.py
DevTools listening on ws://127.0.0.1:52385/devtools/browser/50902998-410f-46e8-a4a2-fa1b3ad4ef91
Running Test Case: Successful Registration
Clicked on 'Generate Code'
Alert received with text: Your verification code is: 848011
Captured Verification Code: 848011
Checked the Terms and Conditions box.
Clicked on the Register button.
Test Passed: Registration was successful.
Running Test Case: Duplicate Email Registration
Clicked on 'Generate Code'
Alert received with text: Your verification code is: 824316
Captured Verification Code: 824316
Checked the Terms and Conditions box.
Clicked on the Register button.
Clicked on 'Generate Code' for duplicate registration.
Alert received with text: Your verification code is: 178265
Captured Verification Code: 178265
Checked the Terms and Conditions box for duplicate registration.
Clicked on the Register button for duplicate registration.
Test Passed: Duplicate email registration was correctly handled.
Running Test Case: Password Mismatch
Clicked on 'Generate Code' for password mismatch.
Alert received with text: Your verification code is: 829853
Captured Verification Code: 829853
Checked the Terms and Conditions box for password mismatch.
Clicked on the Register button for password mismatch.
Test Passed: Password mismatch was correctly handled.
Running Test Case: Missing Required Fields
Created TensorFlow Lite XNNPACK delegate for CPU.
Clicked on 'Generate Code' for missing fields.
Alert received with text: Your verification code is: 490093
Captured Verification Code: 490093
Did not check the Terms and Conditions box.
Clicked on the Register button.
Attempting to use a delegate that only supports static-sized tensors with a graph that has dynamic-sized tensors (tensor#58 is a dynamic-sized tensor).
Test Passed: Missing required fields were correctly handled.
PS C:\Users\steve\OneDrive\Documents\Visual Studio Code\Cisc327-GROUP51-main\Assignment-5\tests>
```

# Running the test e2e login.py - Hassan Hamid

- This end-to-end test is going to simulate a user logging in. It contains four tests: logging in with correct information, logging in with invalid email, logging in with invalid password, and finally testing that the forgot password page loads properly.
- 1. If you've already launched the application after testing **test\_e2e\_registration.py**, simply run **python test\_e2e\_login.py** in the same terminal as where you ran the first test. This should be the result:

```
    (base) hassan@MacBookAir end_to_end_tests % python test_e2e_login.py
    Forgot password page load test passed!
        Invalid email test passed!
        Invalid password test passed!
        .Valid login test passed!
        Ran 4 tests in 5.915s
    OK
```

- 2. If you haven't ran the first test yet, install: **pip install selenium webdriver-manager** in your terminal
- 3. Create two new terminals
- 4. In the first terminal: make the assignment6 folder the current working directory and then run: **python app.py** in order to open a connection to the local host
- 5. In the second terminal change the working directory to the "end\_to\_end\_tests" folder which is located in the tests directory and run python test e2e login.py

# Running the test e2e payment.py - Sungmoon Choi

- This end-to-end test is to simulate real user inputting the payment information and it contains 3 tests: valid payment with sufficient fund, invalid payment, valid payment but insufficient fund
- 1. Make sure that selenium is installed before running the test, if not just run "pip install selenium"

```
C:\Users\Sungpoon\Documents\GitHub\Cisc327-GROUP51\Assignment-6>pip install selenium
Requirement already satisfied: selenium in c:\users\sungpoon\appdata\local\programs\python\python312\lib\site-packages (
4.27.1)
Requirement already satisfied: urllib3<3,>=1.26 in c:\users\sungpoon\appdata\local\programs\python\python312\lib\site-packages (
from urllib3[socks]<3,>=1.26->selenium) (2.1.0)
Requirement already satisfied: trio~=0.17 in c:\users\sungpoon\appdata\local\programs\python\python312\lib\site-packages (
from selenium) (0.27.0)
Requirement already satisfied: trio-websocket~=0.9 in c:\users\sungpoon\appdata\local\programs\python\python312\lib\site-
packages (from selenium) (0.11.1)
Requirement already satisfied: certifi>=2021.10.8 in c:\users\sungpoon\appdata\local\programs\python\python312\lib\site-
packages (from selenium) (2023.11.17)
Requirement already satisfied: typing_extensions~=4.9 in c:\users\sungpoon\appdata\local\programs\python\python312\lib\site-
packages (from selenium) (4.12.2)
Requirement already satisfied: websocket-client~=1.8 in c:\users\sungpoon\appdata\local\programs\python\python312\lib\site-
packages (from selenium) (1.8.0)
Requirement already satisfied: attrs>=23.2.0 in c:\users\sungpoon\appdata\local\programs\python\python312\lib\site-
packages (from trio~=0.17->selenium) (24.2.0)
```

2. Go to Assignment-6 folder directory and run "python app.py" to launch the server

```
C:\Users\Sungpoon\Documents\GitHub\Cisc327-GROUP51\Assignment-6>python app.py

* Serving Flask app 'app'

* Debug mode: on

WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead

* Running on http://127.0.0.1:5000

Press CTRL+C to quit

* Restarting with stat

* Debugger is active!

* Debugger PIN: 580-871-992
```

3. In another terminal, change the directory to end to end tests folder inside tests folder

```
C:\Users\Sungpoon>cd C:\Users\Sungpoon\Documents\GitHub\Cisc327-GROUP51\Assignment-6\tests\end-to-end tests
C:\Users\Sungpoon\Documents\GitHub\Cisc327-GROUP51\Assignment-6\tests\end-to-end tests>
```

4. Now run the command "python test\_e2e\_payment.py" If everything is done properly, this should be the result

```
C:\Users\Sungpoon\Documents\GitHub\Cisc327-GROUP51\Assignment-6\tests\end-to-end tests>python test_e2e_payment.py

DevTools listening on ws://127.0.0.1:52781/devtools/browser/c45335be-35cc-4890-86f9-9354b2e8945d

This should be valid payment with sufficient fund

Flash message: Payment of CAD $1244.13 successful! Remaining balance: CAD $55.86999999999999999.

DevTools listening on ws://127.0.0.1:52803/devtools/browser/eabb8230-d107-41fb-bb7c-f60bd7e35985

This should be invalid payment

Flash message: Invalid payment details! Please try again.

DevTools listening on ws://127.0.0.1:52826/devtools/browser/f1bfc29d-8d78-4cf7-858d-0134b1ee5b9c

This should be valid payment but insufficient fund

Flash message: Insufficient funds! Available balance: CAD $900.0.
```

### Task distribution:

## Sungmoon Choi:

- Listed necessary features to test for end-to-end test
- Developed test e2e payment.py
- Recorded the steps and screenshots of the result

### Steven Guan:

- Created Selenium testing for the registration functionality
- Added explanation to their test case in the report document
- Contributed to the instructions to run the respective testing file.

#### Hassan Hamid:

- Created Selenium testing for the login functionality
- Added explanation to this test case in the report document
- Contributed to the instructions to running the respective testing file