## CISC 327 GROUP-51 readme first

How to run payment feature program and test cases (Sungmoon Choi):

Change the directory to Payment directory inside Assignment-2

```
C:\Stuff>cd C:\Users\Sungpoon\Documents\GitHub\Cisc327-GROUP51\Assignment-2\Payment
```

- C:\Users\Sungpoon\Documents\GitHub\Cisc327-GROUP51\Assignment-2\Payment>
- Create a virtual environment (this command is using Windows, the command is different depending on the operating system)

```
C:\Users\Sungpoon\Documents\GitHub\Cisc327-GROUP51\Assignment-2\Payment>virtualenv venv created virtual environment CPython3.12.1.final.0-64 in 183ms creator CPython3Windows(dest=C:\Users\Sungpoon\Documents\GitHub\Cisc327-GROUP51\Assignment-2\Payment\venv, clear=False, no_vcs_ignore=False, global=False) seeder FromAppData(download=False, pip=bundle, via=copy, app_data_dir=C:\Users\Sungpoon\AppData\Local\pypa\virtualenv) added seed packages: pip==24.2 activators BashActivator,BatchActivator,FishActivator,NushellActivator,PowerShellActivator,PythonActivator
```

activate the virtual environment

C:\Users\Sungpoon\Documents\GitHub\Cisc327-GROUP51\Assignment-2\Payment>venv\Scripts\activate
(venv) C:\Users\Sungpoon\Documents\GitHub\Cisc327-GROUP51\Assignment-2\Payment>\_

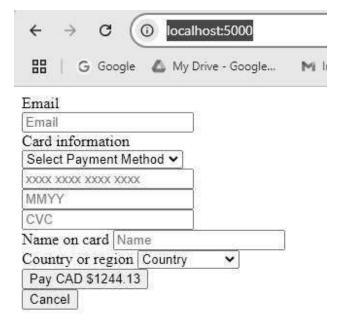
Using pip to install the required packages

```
venv) C:\Users\Sungpoon\Documents\GitHub\Cisc327-GROUP51\Assignment-2\Payment>pip install -r requirements.txt
Collecting Flask (from -r requirements.txt (line 1))
 Using cached flask-3.0.3-py3-none-any.whl.metadata (3.2 kB)
 ollecting Werkzeug>=3.0.0 (from Flask->-r requirements.txt (line 1))
 Using cached werkzeug-3.0.4-py3-none-any.whl.metadata (3.7 kB)
 ollecting Jinja2>=3.1.2 (from Flask->-r requirements.txt (line 1))
 Using cached jinja2-3.1.4-py3-none-any.whl.metadata (2.6 kB)
 ollecting itsdangerous>=2.1.2 (from Flask->-r requirements.txt (line 1))
 Using cached itsdangerous-2.2.0-py3-none-any.whl.metadata (1.9 kB)
 ollecting click>=8.1.3 (from Flask->-r requirements.txt (line 1))
 Using cached click-8.1.7-py3-none-any.whl.metadata (3.0 kB)
 ollecting blinker>=1.6.2 (from Flask->-r requirements.txt (line 1))
 Using cached blinker-1.8.2-py3-none-any.whl.metadata (1.6 kB) collecting colorama (from click>=8.1.3->Flask->-r requirements.txt (line 1))
 Using cached colorama-0.4.6-py2.py3-none-any.whl.metadata (17 kB)
Collecting MarkupSafe>=2.0 (from Jinja2>=3.1.2->Flask->-r requirements.txt (line 1))
 Using cached MarkupSafe-3.0.2-cp312-cp312-win_amd64.whl.metadata (4.1 kB)
 sing cached flask-3.0.3-py3-none-any.whl (101 kB)
Using cached blinker-1.8.2-py3-none-any.whl (9.5 kB)
Using cached click-8.1.7-py3-none-any.whl (97 kB)
Using cached itsdangerous-2.2.0-py3-none-any.whl (16 kB)
Using cached jinja2-3.1.4-py3-none-any.whl (133 kB)
Jsing cached werkzeug-3.0.4-py3-none-any.whl (227 kB)
Using cached MarkupSafe-3.0.2-cp312-cp312-win_amd64.whl (15 kB)
Using cached colorama-0.4.6-py2.py3-none-any.whl (25 kB)
nstalling collected packages: MarkupSafe, itsdangerous, colorama, blinker, Werkzeug, Jinja2, click, Flask.
Successfully installed Flask-3.0.3 Jinja2-3.1.4 MarkupSafe-3.0.2 Werkzeug-3.0.4 blinker-1.8.2 click-8.1.7 colorama-0.4.6
 itsdangerous-2.2.0
```

now run app.py to start the program

```
(venv) C:\Users\Sungpoon\Documents\GitHub\Cisc327-GROUP51\Assignment-2\Payment>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: 184-167-329
```

typing <a href="http://localhost:5000/">http://localhost:5000/</a> into the browser will load the website for payment feature



 from here, you can manually test by inputting information as written in database.txt (note that name is written in lower case with no space, this is because program is made to interpret name input as such, for example, "John Smith" will be interpreted as "johnsmith")

or to run the test case, run the command "python -m unittest discover -s tests"

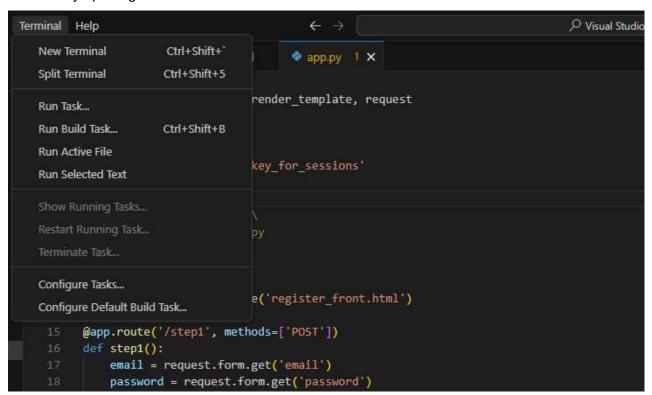
```
(venv) C:\Users\Sungpoon\Documents\GitHub\Cisc327-GROUP51\Assignment-2\Payment>python -m unittest discover -s tes
......
Ran 11 tests in 0.001s
OK
```

(note that 11 tests include both success and fail cases) fail cases are tested by ensuring that no balance is returned if any of the information is incorrect, thus returning an error message on the website

Running the Registration program and test cases: Steven Guan
-- ENSURE YOU HAVE FLASK INSTALLED BY RUNNING (PIP INSTALL FLASK)
IN THE BASH TERMINAL --

## To look at the page for registration:

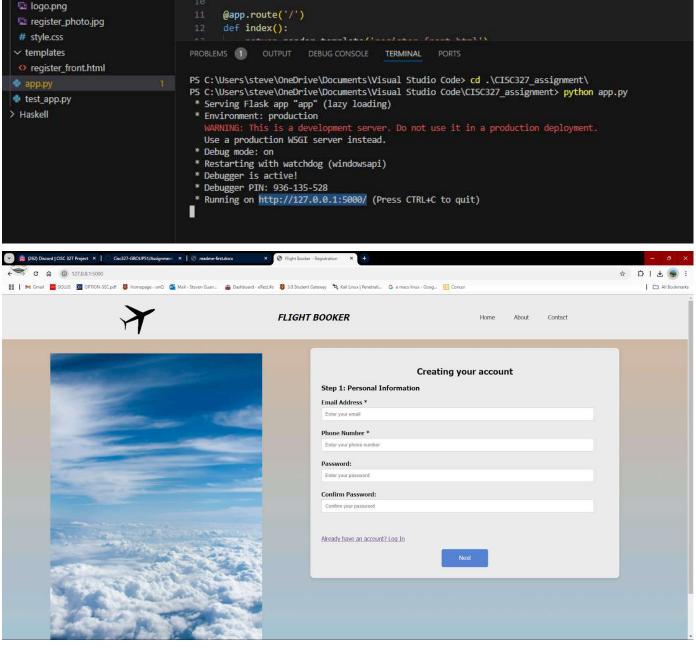
1. Start by opening a new terminal



2. Ensure that the current directory is where you can access all the images, css, html and python files. Run the app.py by running "python app.py" in the terminal.



3. Copy the url that the terminal gives you and paste it into your browser. Once you are done, exit the page by Ctrl+C on the terminal.



To run the test cases and start a test case:

CISC327\_assignment\_\_pycache\_\_static

1. In the same working directory as you opened the page, run "python test\_app.py"

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

127.0.0.1 - - [22/Oct/2024 18:34:48] "GET / HTTP/1.1" 200 -

PS C:\Users\steve\OneOrive\Documents\Visual Studio Code\CISC327_assignment> python .\test_app.py

C:\Users\steve\anaconda3\lib\site-packages\flask\json\__init__.py:211: DeprecationWarning: Importing 'itsdangerous.json' is deprecated and wi ad.

rv = _json.dumps(obj, **kwargs)

Ran 8 tests in 0.030s

OK

PS C:\Users\steve\OneOrive\Documents\Visual Studio Code\CISC327_assignment> []
```

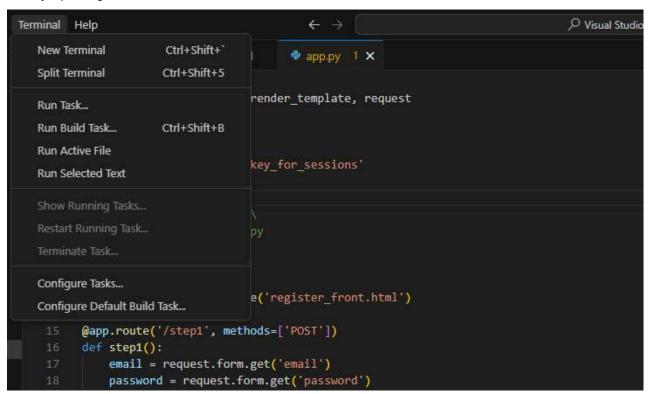
2. In the test\_app.py file, you may alter the values of the html forms to try testing for yourself and building test cases. The logic can be found in app.py for returning 400 (failure) or 200 (success).

```
🕏 test_app.py 🗙 🕠 register_front.html 🗶 🐞 app.py 1
CISC327_assignment > 🔹 test_app.py > 😭 FlaskTestCase > 😭 test_failed_step2_missing_1
      import unittest
      from app import app
      class FlaskTestCase(unittest.TestCase):
          # Set up the testing environment
          def setUp(self):
              self.app = app.test_client() # Create a test client
              self.app.testing = True
                                           # Set Flask to testing mode
          # Test if the home page loads successfully
          def test_home_page(self):
              result = self.app.get('/') # Simulate a GET request
              self.assertEqual(result.status_code, 200) # Check if the status code is 200 for success
          # Test for successful registration (Step 1)
          def test_successful_step1(self):
              result = self.app.post('/step1', data={
                   'email': 'test@example.com',
                   'password': 'password123',
                   'confirmPassword': 'password123'
              self.assertEqual(result.status_code, 200) # Check if step 1 was successful
              self.assertIn(b'Step 1 successful', result.data)
          def test_failed_step1_password(self):
              result = self.app.post('/step1', data={
                  'email': 'test@example.com',
                   'password': 'password_a',
                   'confirmPassword': 'password_b'
              self.assertEqual(result.status code, 400) # Expecting 400 for failed validation
               self.assertIn(b'Step 1 failed', result.data)
```

Replacing the value of 'email', will change the input value of the form submission with the id 'email'.

## Running the Login program and test cases: Hassan Hamidcd

- -- ENSURE YOU HAVE FLASK INSTALLED BY RUNNING (PIP INSTALL FLASK) IN THE BASH TERMINAL --
- 1. Start by opening a new terminal



2. Ensure that the current directory is where you can access all the images, html and python files. In this case it may be the login directory. Run the app.py by running "python app.py" in the terminal.

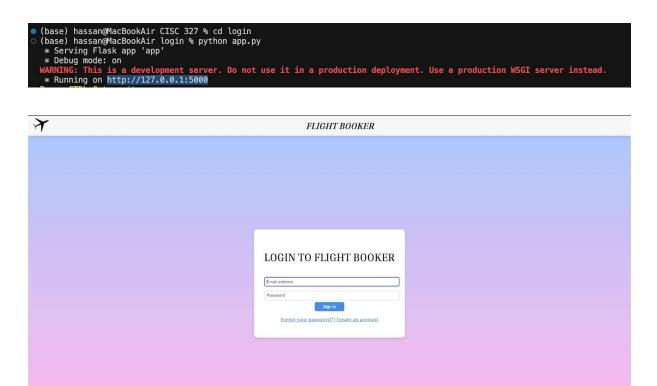
```
/ CISC 327
                     login > templates > \login.html
                      1 <!DOCTYPE html>
∨ login
                      2 <html lang="en">
 > __pycache__
 > static
 ∨ templates
                      4 <meta charset="UTF-8">
5 <meta name="viewport" content="width=device
 <title>Flight Booker Login</title>
  O login.html
                                <link href="https://fonts.googleapis.com/cs</pre>
 ∨ tests
                                <style>

✓ __pycache__

                                     /* Add some basic styling */

≡ test_login.cpyth...
                                    body {
  test_login.py
                                         font-family: 'Inria Serif', serif;
 app.py
                                         background: linear-gradient(to bott
                       13
                                         display: flex;
                                         justify-content: center;
                                         align-items: center;
                                         height: 100vh;
                               OUTPUT DEBUG CONSOLE TERMINAL
                    • (base) hassan@MacBookAir CISC 327 % cd login
                    (base) hassan@MacBookAir login % python app.py
```

3. Copy the url that the terminal gives you and paste it into your browser. Once you are done, exit the page by Ctrl+C on the terminal.



## To test the page and run the test cases:

1. To test the functionality of the site, you can enter the information found in the mock database section in app.py. You can also enter information not found in the database to test how the page handles incorrect information.

```
# Mock user database
users = {
    "user@example.com": "password123",
    "hassan@gmail.com": "password123",
    "steven@gmail.com": "password123",
    "anwar@gmail.com": "password123",
}
```

2. To run the unit tests found in test\_login.py, in the same working directory as you opened the page, run the command "python -m unittest discover tests" (You'll need to do Ctrl + C to exit the page first)

