## Continuous Integration - Using Github Actions - Setting up workflow Justin Vence Llamas

Link to GitHub: https://github.com/jusasin/tdd

## Task 1:

```
name: CI workflow

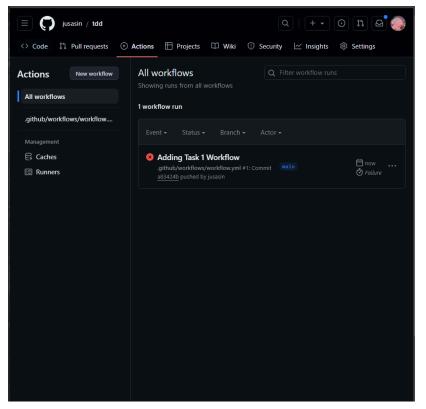
on:

push:
branches: [ main ]

pull_request:
branches: [ main ]

jobs:
build:
runs-on: ubuntu-latest
container:
image: python:3.9-slim
```

• Picture of the code I did for task 1



Picture of the Actions tab from my GitHub

## Task 2:

```
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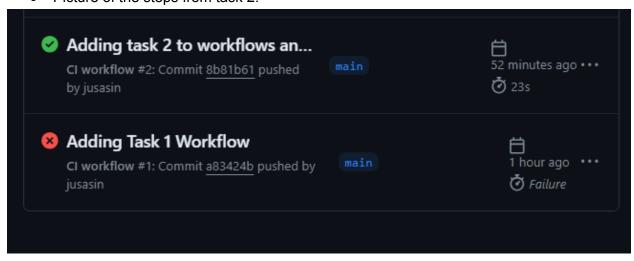
    workflow.yml × ≡ counter.py

    M↓ README.md

    ≡ requirements.txt

           name: CI workflow
ſη
             branches: [ main ]
80
             pull_request:
             branches: [ main ]
             runs-on: ubuntu-latest
               image: python:3.9-slim
               - name: Checkout
               uses: actions/checkout@v3
             - name: Install dependencies
                  python -m pip install --upgrade pip
                 pip install -r requirements.txt
             - name: Lint with flake8
                  flake8 src --count --select=E9,F63,F7,F82 --show-source --statistics
                   flake8 src --count --max-complexity=10 --max-line-length=127 --statistics
            💡 - name: Run unit tests with nose
                 run: nosetests -v --with-spec --spec-color --with-coverage --cover-package=app
```

• Picture of the steps from task 2.



Adding my workflow to GitHub, picture of the action tab.

## **Creating Delete Test Case:**

```
def test_delete_a_counter(self):
    """Test to delete a counter"""
    #Create a counter
    result = self.client.post('/counters/deleteCounter')
    #Check that it was created successfully
    self.assertEqual(result.status_code, status.HTTP_201_CREATED)
    #Delete the created counter
    deleteResult = self.client.delete('/counters/deleteCounter')
    #Check that there is no counter that exists
    self.assertEqual(deleteResult.status_code, status.HTTP_204_NO_CONTENT)
    #delete a counter that doesnt even exists
    notReal = self.client.delete('counters/fakeCounter')
    #check that it is not found
    self.assertEqual(notReal.status_code, status.HTTP_404_NOT_FOUND)
```

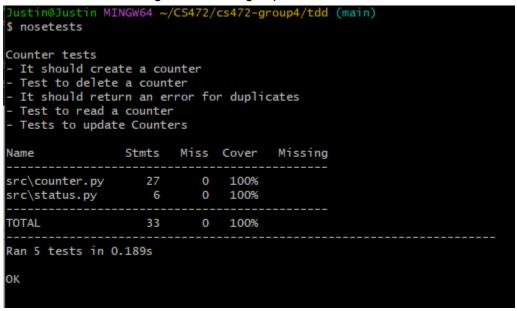
 For the test case I created a new counter and made sure that it was created successfully. Then I tried to delete the counter I already had and checked that it no longer exists afterwards. Then I tried to delete a counter that did not exists and checked that by using NOT\_FOUND status code.

• Picture of running nosetests of the new test, it had an error code with 405 != 204 and we can see that my delete test counter failed.

```
@app.route('/counters/<name>', methods=['DELETE'])

def delete_counter(name):
    """Delete a counter"""
    app.logger.info(f"Request to delete counter: {name}")
    if name not in COUNTERS:
        return {"Message": f"Counter {name} not found"}, status.HTTP_404_NOT_FOUND
    del COUNTERS[name]
    return '', status.HTTP_204_NO_CONTENT
```

• Adding the new function for delete. Really just copied and paste most of the actions from create and changed a few things up.



 Picture of adding the new function and showing that it passed and there is 100% coverage on all the lines.