

## Comp0034-cw2i-TommyLau-bit:

Test code:

```
import requests
from selenium.webdriver.support import expected_conditions as EC
from selenium.webdriver.support.ui import WebDriverWait
from selenium.webdriver.common.by import By
from selenium.webdriver.common.keys import Keys

def test_server_running(live_server):
    """Test that the server is running."""
    url = live_server
    response = requests.get(url)
    assert response.status_code == 200, f"Failed to access server at {url}. Status code: {response.status_code}"

def test_element_value(chrome_driver, live_server):
    """Test the value of an element on the page."""
    chrome_driver.get(live_server)
    element = chrome_driver.find_element(By.ID, "recent-cases-heading")
    element.click()
    highlights_element = chrome_driver.find_element(By.ID, "dashboard-metrics-heading")
    highlights_value = highlights_element.text
    assert highlights_value == "Dashboard Metrics"

def test_home_page(client):
    response = client.get('/')
    assert response.status_code == 200
    assert b"Recent Cases" in response.data
    assert b"Recent Complaints" in response.data
    assert b"Dashboard Metrics" in response.data

def test_case_detail(client):
    response = client.get('/case/2')
    assert response.status_code == 200
    assert b"Case Details" in response.data
    assert b"Type:" in response.data
    assert b"Status:" in response.data

def test_list_cases(client):
    response = client.get('/cases')
    assert response.status_code == 200
    assert b"FOIA Case" in response.data
```

```

def test_search_functionality(chrome_driver, live_server):
    """Test the search functionality on the home page."""
    chrome_driver.get(live_server)
    search_input = chrome_driver.find_element(By.ID, "search-input")
    search_input.send_keys("FOIA Case")
    search_input.send_keys(Keys.ENTER)

    # Wait for the search results to load
    WebDriverWait(chrome_driver, 10).until(
        EC.visibility_of_element_located((By.ID, "search-results"))
    )

    search_results_section = chrome_driver.find_element(By.ID, "search-results")
    assert "FOIA Case" in search_results_section.text

def test_navigation_to_case_detail(chrome_driver, live_server):
    """Test navigation to a case detail page from the home page."""
    chrome_driver.get(live_server)
    # Wait for the first 'View Case' link to be clickable
    WebDriverWait(chrome_driver, 10).until(
        EC.element_to_be_clickable((By.CSS_SELECTOR, ".view-case-link")) # Select
by class
    )

    # Click the first 'View Case' link
    view_case_links = chrome_driver.find_elements(By.CSS_SELECTOR, ".view-case-
link")
    if view_case_links:
        view_case_links[0].click()

    # Ensure the page has navigated to 'Case Details'
    WebDriverWait(chrome_driver, 10).until(
        EC.presence_of_element_located((By.CSS_SELECTOR, "h2"))
    )
    assert "Case Details" in chrome_driver.page_source, "Failed to navigate to Case
Details page."

```

evidence:

```
(.venv) Tommys-MacBook-Pro:comp0034-cw2i-TommyLau-bit tommy$ pytest -v
===== test session starts =====
platform darwin -- Python 3.8.6, pytest-8.1.1, pluggy-1.4.0 -- /Users/tommy/github-classroom/comp0034-cw2i-TommyLau-bit/.venv/bin/python3
cachedir: .pytest_cache
rootdir: /Users/tommy/github-classroom/comp0034-cw2i-TommyLau-bit
configfile: pyproject.toml
plugins: flask-1.3.0, dash-2.15.0
collected 7 items

tests/test_src_flask.py::test_server_running PASSED [ 14%]
tests/test_src_flask.py::test_element_value PASSED [ 28%]
tests/test_src_flask.py::test_home_page PASSED [ 42%]
tests/test_src_flask.py::test_case_detail PASSED [ 57%]
tests/test_src_flask.py::test_list_cases PASSED [ 71%]
tests/test_src_flask.py::test_search_functionality PASSED [ 85%]
tests/test_src_flask.py::test_navigation_to_case_detail PASSED [100%]



===== warnings summary =====
tests/test_src_flask.py::test_case_detail
/Users/tommy/github-classroom/comp0034-cw2i-TommyLau-bit/.venv/lib/python3.8/site-packages/flask_sqlalchemy/query.py:30: LegacyAPIWarning:
The Query.get() method is considered legacy as of the 1.x series of SQLAlchemy and becomes a legacy construct in 2.0. The method is now available as Session.get() (deprecated since: 2.0) (Background on SQLAlchemy 2.0 at: https://sqlalche.me/e/b8d9)
  rv = self.get(ident)

-- Docs: https://docs.pytest.org/en/stable/how-to/capture-warnings.html
===== 7 passed, 1 warning in 8.47s =====
```

## Tools and Techniques:

Source code control:

```
(.venv) Tommys-MacBook-Pro:comp0034-cw2i-TommyLau-bit tommy$ git add .
(.venv) Tommys-MacBook-Pro:comp0034-cw2i-TommyLau-bit tommy$ git commit -m "week 8"
[main 192dd8c] week 8
3 files changed, 78 insertions(+), 3 deletions(-)
create mode 100644 src/forms.py
create mode 100644 templates/add_form.html
(.venv) Tommys-MacBook-Pro:comp0034-cw2i-TommyLau-bit tommy$ git push origin main
Enumerating objects: 11, done.
Counting objects: 100% (11/11), done.
Delta compression using up to 2 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (7/7), 1.61 KiB | 822.00 KiB/s, done.
Total 7 (delta 3), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (3/3), completed with 3 local objects.
To https://github.com/ucl-comp0035/comp0034-cw2i-TommyLau-bit.git
c329b6a..192dd8c main -> main
(.venv) Tommys-MacBook-Pro:comp0034-cw2i-TommyLau-bit tommy$
```

|   |                |                         |   |
|---|----------------|-------------------------|---|
|  TommyLau-bit week 8 |                | 192dd8c · 4 minutes ago |  4 Commits |
|  migrations          | Initial commit |                         | 2 days ago  |
|  src                 | week 8         |                         | 4 minutes ago   |
|  templates           | week 8         |                         | 4 minutes ago   |
|  tests               | Initial commit |                         | 2 days ago  |

URL: <https://github.com/ucl-comp0035/comp0034-cw2i-TommyLau-bit.git>

## References

- Use of AI- Format and idea of these two test codes:

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def test_search_functionality(chrome_driver, live_server):
    """Test the search functionality on the home page."""
    chrome_driver.get(live_server)
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    search_input.send_keys(Keys.ENTER)

    # Wait for the search results to load
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        EC.visibility_of_element_located((By.ID, "search-results"))
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    assert "FOIA Case" in search_results_section.text

def test_navigation_to_case_detail(chrome_driver, live_server):
    """Test navigation to a case detail page from the home page."""
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    WebDriverWait(chrome_driver, 10).until(
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    # Click the first 'View Case' link
    view_case_links = chrome_driver.find_elements(By.CSS_SELECTOR, ".view-case-
link")
    if view_case_links:
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    # Ensure the page has navigated to 'Case Details'
    WebDriverWait(chrome_driver, 10).until(
        EC.presence_of_element_located((By.CSS_SELECTOR, "h2"))
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    assert "Case Details" in chrome_driver.page_source, "Failed to navigate to Case
Details page."
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