

# CISC 327 Group 57 Assignment 6

## Authors

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## Features Considered For Testing

### Registration

- The functionality to register a new user with valid credentials and check if the user is redirected to the 2FA setup page.

### Login

- The ability for an existing user to log in with valid credentials and verify successful login through UI messages and navigation.

### Logout

- Logging out a user and verifying that the session is cleared, and the user is redirected to the home page with appropriate messaging.

### Add Property

- Adding a new property by filling out all required fields, verifying a success message, and ensuring the property appears on the properties page.

## Summary of Test Scripts

### 1. test\_register

This test ensures that the registration process functions as expected. It navigates to the registration page, fills out the form with valid user details, and submits it. After submission, the test verifies that the user is redirected to the 2FA setup page and checks for a flash message confirming successful account creation.

### 2. test\_login

This test verifies that an existing user can log in successfully. It navigates to the login page, enters valid credentials, and submits the form. The test then ensures that the user is redirected to the home page, where a welcome message is displayed, and confirms that the user session has been established.

### 3. test\_logout

This test confirms that the logout functionality works correctly. It begins by logging in a test user, then clicking the logout button. The test then ensures that the user is redirected to the home page with a flash message confirming successful logout. It also verifies that the session is cleared.

and user-specific elements are no longer visible.

#### 4. test\_add\_property

This test validates the process of adding a new property. It logs in a test user, navigates to the "Add Property" page, fills out the form with valid property details, and submits it. After submission, the test checks for a flash message indicating success and ensures that the new property appears on the properties page with the correct ID.

## Result of Test Scripts

```
INFO [alembic.runtime.migration] Context impl SQLiteImpl.
INFO [alembic.runtime.migration] Will assume non-transactional DDL.
INFO [alembic.runtime.migration] Running stamp_revision -> e75228e80dc5
test_login (test_account.AccountTests.test_login)
Test the login process ... INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:14] "GET / HTTP/1.1" 200 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:14] "GET /static/style.css HTTP/1.1" 200 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:15] "GET /static/homePage.css HTTP/1.1" 200 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:15] "GET /static/logofavicon.svg HTTP/1.1" 200 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:15] "GET /static/favicon.ico HTTP/1.1" 200 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:15] "GET /login HTTP/1.1" 200 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:15] "GET /static/logofavicon.svg HTTP/1.1" 304 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:15] "GET /static/account-style.css HTTP/1.1" 200 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:15] "GET /static/style.css HTTP/1.1" 304 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:15] "GET /static/logofavicon.svg HTTP/1.1" 304 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:15] "GET /static/favicon.ico HTTP/1.1" 304 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:16] "POST /login HTTP/1.1" 302 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:16] "GET / HTTP/1.1" 200 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:16] "GET /static/style.css HTTP/1.1" 304 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:16] "GET /static/homePage.css HTTP/1.1" 304 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:16] "GET /static/logofavicon.svg HTTP/1.1" 304 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:16] "GET /static/logofavicon.svg HTTP/1.1" 304 -
ok
test_logout (test_account.AccountTests.test_logout)
Test the logout process ... INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:16] "GET / HTTP/1.1" 200 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:16] "GET /static/style.css HTTP/1.1" 304 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:17] "GET /static/homePage.css HTTP/1.1" 304 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:17] "GET /static/logofavicon.svg HTTP/1.1" 304 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:17] "GET /static/logofavicon.svg HTTP/1.1" 304 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:17] "GET /static/favicon.ico HTTP/1.1" 200 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:17] "GET /login HTTP/1.1" 200 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:17] "GET /static/logofavicon.svg HTTP/1.1" 304 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:17] "GET /static/style.css HTTP/1.1" 304 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:17] "GET /static/account-style.css HTTP/1.1" 304 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:17] "GET /static/logofavicon.svg HTTP/1.1" 304 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:17] "GET /static/favicon.ico HTTP/1.1" 304 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:18] "POST /login HTTP/1.1" 302 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:18] "GET / HTTP/1.1" 200 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:18] "GET /static/style.css HTTP/1.1" 304 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:18] "GET /static/homePage.css HTTP/1.1" 304 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:18] "GET /static/logofavicon.svg HTTP/1.1" 304 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:18] "GET /static/logofavicon.svg HTTP/1.1" 304 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:18] "GET /logout HTTP/1.1" 302 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:18] "GET / HTTP/1.1" 200 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:19] "GET /static/style.css HTTP/1.1" 304 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:19] "GET /static/homePage.css HTTP/1.1" 304 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:19] "GET /static/logofavicon.svg HTTP/1.1" 304 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:19] "GET /static/logofavicon.svg HTTP/1.1" 304 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:19] "GET /static/favicon.ico HTTP/1.1" 200 -
ok
test_register (test_account.AccountTests.test_register)
Test the registration process ... INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:19] "GET / HTTP/1.1" 200 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:19] "GET /static/style.css HTTP/1.1" 304 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:19] "GET /static/homePage.css HTTP/1.1" 304 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:19] "GET /static/logofavicon.svg HTTP/1.1" 200 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:19] "GET /register HTTP/1.1" 200 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:19] "GET /static/style.css HTTP/1.1" 304 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:20] "GET /static/account-style.css HTTP/1.1" 304 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:20] "GET /static/logofavicon.svg HTTP/1.1" 304 -
```

```

INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:20] "POST /register HTTP/1.1" 302 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:20] "GET /setup_2fa HTTP/1.1" 200 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:20] "GET /static/style.css HTTP/1.1" 304 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:21] "GET /static/account-style.css HTTP/1.1" 304 -
INFO [werkzeug] 127.0.0.1 - - [04/Dec/2024 22:03:21] "GET /static/logofavicon.svg HTTP/1.1" 304 -
ok
INFO [alembic.runtime.migration] Context impl SQLiteImpl.
INFO [alembic.runtime.migration] Will assume non-transactional DDL.
INFO [alembic.runtime.migration] Running stamp_revision -> e75228e80dc5
test_add_property (test_e2e_property.AddPropertyTests.test_add_property)
Test process for adding a property ... ok

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Ran 4 tests in 20.734s

OK

Process finished with exit code 0

```

## How To Run Scripts

The new end-to-end tests can be run using the `run\_e2e\_tests.py` script in the root of the repository. (Example: `python run\_e2e\_tests.py`). Note that you must have the `selenium` installed first before running. To get the package, either run `pip install selenium` or `pip install -r requirements.txt`.

After running the file, please wait for the tests to complete, and do not interrupt it.

## Task Distribution

Aleeza Balbas	<p>Developed a Selenium test to verify property addition and its display on the properties page after saving.</p> <p>Integrated login functionality from Ayman's account tests to enable the property addition test.</p> <p>Made minor modifications to the property controller for code alignment.</p>
Ayman Zaher	<p>Created three new end-to-end tests for registration, login, and logout using a new base class with a Selenium instance.</p> <p>Added a `run_e2e_tests.py` script for streamlined execution of end-to-end tests.</p>
Daniel Zhuo	<p>Created Assignment 6 report detailing thought process, and documentation.</p>