Lab 11 : Part A:

### **Test Plan**

### Feature 1:

Login Page

## Sample Cases for UAT:

- Redirects to home page when user information is verified
- displays message error, and re-render the login page if information is not verified acceptance criteria:
  - user cannot log in without filling out all required fields (username and password) user cannot log in with incorrect information

## description of test data:

-every submitted object should consist of a username and password. The users table in the database will have every username alongside the hashed password.

### description of test environment:

The testing was done on individual systems with varying hardware, using the Mocha and Chai frameworks/libraries alongside the already established database and docker containers. description of test results:

Two results may occur

- 1.) The test resolves positively, resulting in a 200 status and a success/"Welcome!" message.
- 2.) The test resolves negatively, resulting in a 400 status and a error/"Incorrect username or password. If you do not have an account, please register.".

#### Feature 2:

### Register Page

### Sample Cases for UAT:

- if password confirmation does not match, display error message, and then re-render register page
- if register is successful then redirect to the login page

#### acceptance criteria:

- user must fill out all fields (username, password)
- will not accept username that already exists
- information is entered into the user database

# description of test data:

The test data consists of a variety of submitted username and passwords that is similar to that of the login test. These do not need to be hashed or altered by the user, but will be hashed in the backend.

#### <u>description of test environment:</u>

The testing was done on individual systems with varying hardware, using the Mocha and Chai frameworks/libraries alongside the already established database and docker containers.

## description of test results:

Two results may occur

- 1.) The test resolves positively, giving a 200 status message alongside a success/"User registered successfully".
- 2.) The test resolves negatively, giving a 400 status message alongside an error/"Registration failed. Username already exists".

#### Feature 3:

## **Logout Functionality**

Sample Cases for UAT:

- when user chooses to logout, their session ends, and redirect to the landing page acceptance criteria:
  - once logged out, message that user has been logged out is displayed landing page rendered correctly after this
  - user session ended

## description of test data:

No data should be needed or displayed to keep the data secure.

## description of test environment:

The testing was done on individual systems with varying hardware, using the Mocha and Chai frameworks/libraries alongside the already established database and docker containers.

#### description of test results:

A positive result should give a 200 status alongside a correct render of the login/landing page. A negative result should give a 400 status, which means nothing has changed and the session was not destroyed.

#### **User Acceptance Testers:**

The UAT testers for these tests were the developers of stock sensei.

## Part B:

```
assert.notEqual(res.body.username, null);
       done();
     });
     it('Positive: /login. username in database', done => {
     .request(index)
     .get('/login)
     .end((err, res) => {
       expect (res).to.have.status(200);
       expect(res.body.status).to.equals('success');
       done();
     });
});
it('positive: /login - Login successful', async () => {
 const uniqueUser = `TestUser ${Date.now()}`;
 const registrationRes = await chai
   .post('/register')
    .send({ username: uniqueUser, password: 'test' });
  expect(registrationRes).to.have.status(200);
 expect(registrationRes.body.status).to.equals('success');
 assert.strictEqual(registrationRes.body.message, 'User registered successfully.');
  const loginRes = await chai
   .post('/login')
    .send({ username: uniqueUser, password: 'test' });
  expect(loginRes).to.have.status(200);
 expect(loginRes.body.status).to.equals('success');
 assert.strictEqual(loginRes.body.message, 'Welcome!');
  await dbt.none('DELETE FROM users WHERE username = $1', [uniqueUser]);
it('negative: /login - User not found', async () => {
 const nonExistentUser = `NonExistentUser ${Date.now()}`;
 const response = await chai
    .post('/login')
    .send({ username: nonExistentUser, password: 'password' });
  expect(response).to.have.status(400);
 expect(response.body.status).to.equals('error');
```

```
assert.strictEqual(response.body.error, 'Incorrect username or password. If you do
not have an account, please register.');
 it('positive: /register - Successful registration', async () => {
   const uniqueUser = `TestUser ${Date.now()}`;
   const response = await chai
     .post('/register')
     .send({ username: uniqueUser, password: 'test' });
   expect(response).to.have.status(200);
   expect(response.body.status).to.equals('success');
   assert.strictEqual(response.body.message, 'User registered successfully.');
 await dbt.none('DELETE FROM users WHERE username = $1', [uniqueUser]); });
  it('negative: /register - Duplicate username', async () => {
   const duplicateUser = 'DuplicateUser';
   // Register the user once
   const firstRegistration = await chai
     .post('/register')
     .send({ username: duplicateUser, password: 'password' });
    const secondRegistration = await chai
     .post('/register')
     .send({ username: duplicateUser, password: 'password' });
   expect(secondRegistration.body.status).to.equals('error');
   assert.strictEqual(secondRegistration.body.message, 'Registration failed. Username
already exists.');
    await dbt.none('DELETE FROM users WHERE username = $1', [duplicateUser]);
```