

## **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:

###### description of test environment:

###### description of test results:

##### **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:

###### description of test environment:

###### description of test results:

##### **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:

description of test environment:

description of test results:

## Part B:

```
describe('*Login*', () => {
  // Sample test case given to test / endpoint.
  it('Negative : /login. Checking empty name', done => {
    chai
      .request(index)
      .get('/login')
      .end((err, res) => {
        expect(res).to.have.status(200);
        expect(res.body.status).to.equals('Username cannot be empty');
        assert.notEqual(res.body.username, null);
        done();
      });
    it('Positive: /login. username in database', done => {
      chai
        .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
    .request(server)
    .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
    .request(server)
```

```

    .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
      .request(server)
      .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
      .request(server)
      .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
      .request(server)
      .post('/register')
      .send({ username: duplicateUser, password: 'password' });
    const secondRegistration = await chai
      .request(server)
      .post('/register')
      .send({ username: duplicateUser, password: 'password' });
    expect(secondRegistration).to.have.status(400);
    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]);  
  });  
  
});
```