#### **Problem Objective:**

Automate key functionalities of the ZeroBank application (<http://zero.webappsecurity.com/>) using Selenium and Python. This project will cover functional testing of login, account management, fund transfers, and payment systems.

### **Project Overview**

#### **1. Features to Test**

1. **Authentication:**
   * Login and logout functionality.
   * Handle invalid credentials.
2. **Account Summary:**
   * Verify account details and balances.
3. **Fund Transfer:**
   * Transfer funds between accounts.
   * Validate transfer success messages.
4. **Bill Payment:**
   * Pay bills to payees.
   * Ensure payment confirmation.

### **Prerequisites**

1. **Install Python and Libraries**:
   * Install Selenium: pip install selenium
   * Install PyTest for test case management: pip install pytest pytest-html
2. **Browser Driver**:
   * Download the WebDriver for your browser (e.g., ChromeDriver for Google Chrome).
3. **Website URL**:
   * Application under test: [ZeroBank](http://zero.webappsecurity.com/)

**Test 1: Login Functionality**

**Objective:** Automate the login process and verify successful login.

**Steps:**

1. Navigate to the ZeroBank login page.
2. Enter valid credentials (username and password).
3. Click the "Sign in" button.
4. Verify that the user is logged in by checking the presence of the "Account Summary" page.

**Test 2: Account Summary Verification**

**Objective:** Verify that the account summary page displays correct account information.

**Steps:**

1. Log in to ZeroBank.
2. Navigate to the "Account Summary" page.
3. Verify that the account types (e.g., Savings, Checking, Credit Card) are displayed.
4. Verify that the correct account balances are shown.

**Test 3: Transfer Funds**

**Objective:** Automate the process of transferring funds between accounts.

**Steps:**

1. Log in to ZeroBank.
2. Navigate to the "Transfer Funds" page.
3. Select the "From" and "To" accounts.
4. Enter the amount to transfer.
5. Submit the transfer and verify the confirmation message.

**Test 4: Pay Bills**

**Objective:** Automate the process of paying bills.

**Steps:**

1. Log in to ZeroBank.
2. Navigate to the "Pay Bills" page.
3. Enter the payee, account, amount, date, and description.
4. Submit the payment and verify the confirmation message.

**Test 5: Search for Transactions**

**Objective:** Automate the process of searching for specific transactions.

**Steps:**

1. Log in to ZeroBank.
2. Navigate to the "Account Activity" page.
3. Use the search feature to find specific transactions.
4. Verify that the correct transactions are displayed.