

#### WIPRO NGA Program - Product Testing

Capstone Project Presentation – 3<sup>rd</sup> and 4<sup>th</sup> Sept 2025

Project Title Here - Zero Bank Automation Project

Presented by - Bairi Rakesh Goud

### **Table of contents**

- ➤ Project Overview
- > Tools and Technologies
- ➤ Project Architecture
- ➤ Implemented Features
- > Test Cases
- ➤ Challenges Faced
- > Conclusion



# **Project overview**

- Automate key functionalities of the Zero Banking application using Selenium with Python to ensure accurate and efficient testing of banking operations.
- ➤ Helps in **reducing manual testing effort**, improves accuracy, and ensures faster validation of banking workflows.



# **Tools and Technologies**

- > Python Scripting language for automation.
- > Selenium WebDriver Browser automation.
- > PyTest Test framework.
- ➤ Allure Test reports generation.
- ➤ **VS Code** IDE for development.
- ➤ Website URL: <a href="http://zero.webappsecurity.com/">http://zero.webappsecurity.com/</a>

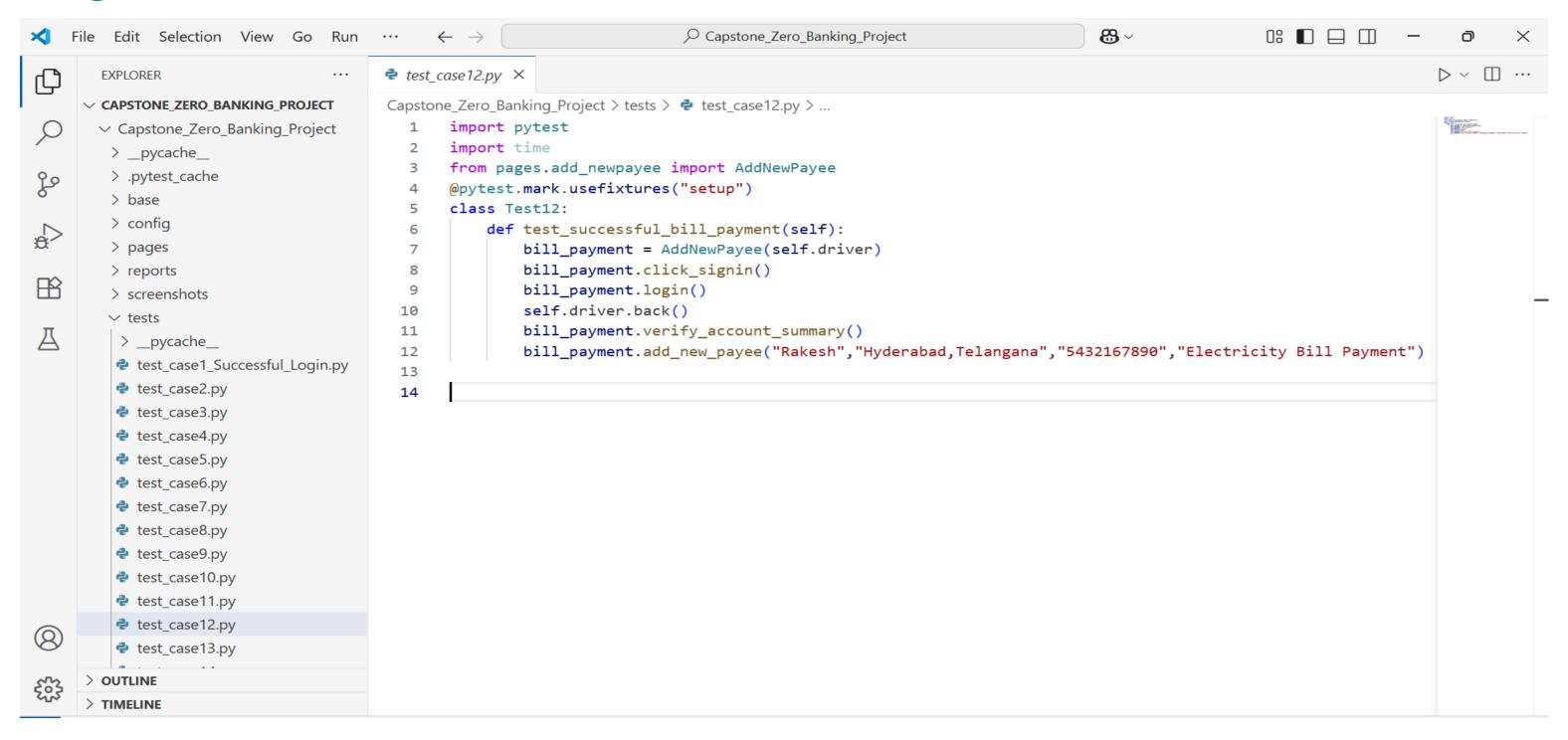


# **Project Architecture**

- > Page Object Model (POM) is implemented for maintainability.
- > BasePage class handles common operations like click, enter text, hover, etc.
- > Separate page classes for Login, Account Verification, Fund Transfer, and Error Handling.
- > PyTest used for test execution.
- > Allure Reports for visualization of test results.

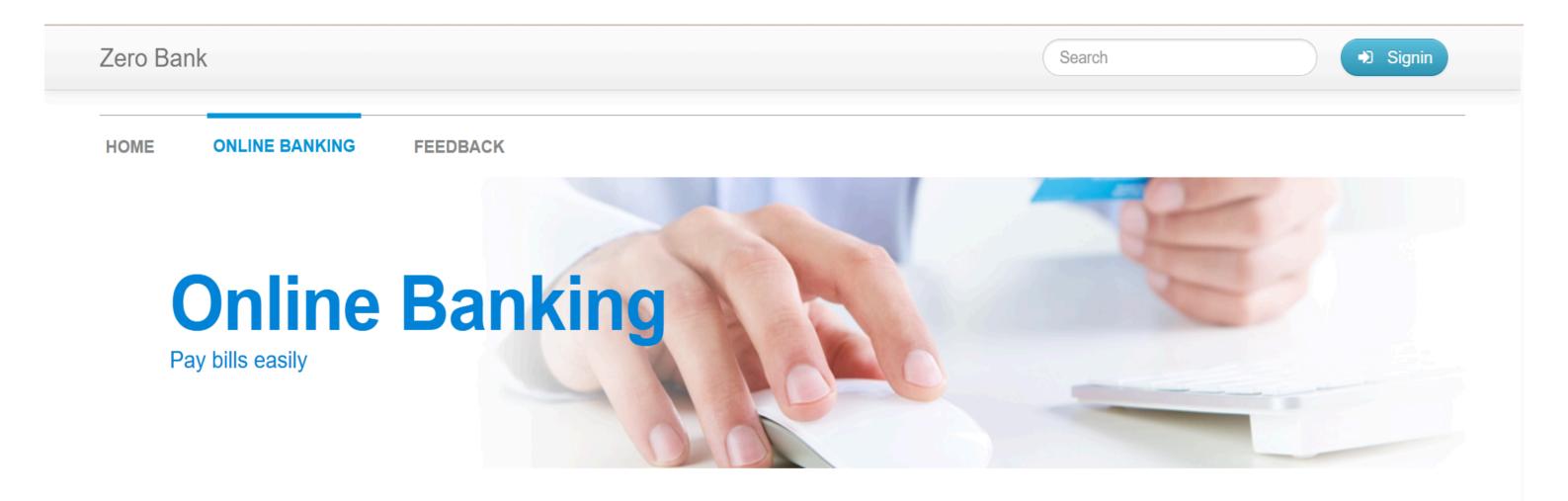


## **Project Structure**

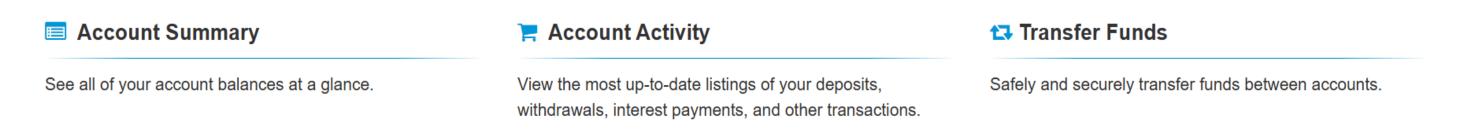




### **Handling Webpage**



Our Bank is trusted by over 1,000,000 customers world wide. Sign in now!





## Implemented Features

- ✓ Login Automation Validates user login.
- ✓ Account Type Verification Checks all account types are visible.
- ✓ Fund Transfer Automates transfer between accounts.
- ✓ Insufficient Funds Handling Validates error messages when balance is low.
- ✓ Reporting Generates Allure reports for each test run.



#### **➤ Test Case 1: Successful Login**

**Steps:** Open the website, enter valid username and password, and click Sign In. **Expected Result:** User should be redirected to the account summary page, confirming successful login.

#### **➤ Test Case 2: Validate Account Types**

**Steps:** Navigate to Account Summary, check all account types displayed. **Expected Result:** "Checking," "Savings," "Credit Card," and "Loan" account types should be visible.



#### > Test Case 3: Fund Transfer with Sufficient Balance

**Steps:** Select a valid "From Account" and "To Account," enter amount less than balance, and submit.

**Expected Result:** Transaction should succeed and confirmation message should appear.

#### > Test Case 4: Fund Transfer with Insufficient Balance

**Steps:** Select a "From Account" with insufficient funds, enter an amount greater than balance, and submit.

**Expected Result:** Error message "Insufficient funds." should be displayed, and transaction should not be processed.



☐ Test Case 5: Validate Account Types

Login and navigate to the Account Summary page.

Verify that the following account types are displayed:

Checking

**Savings** 

**Credit Card** 

Loan

Verify that funds can be transferred between accounts.



#### **Test Case 6:** Successful Fund Transfer

Login and navigate to the **Fund Transfer** page.

Select "From Account" and "To Account".

Enter a valid amount.

Click Submit.

Confirm the transfer.

#### **Test Case 7:** Fund Transfer with Insufficient Balance

Select an account with insufficient funds as the "From Account".

Enter an amount greater than the available balance.

Click Submit.



☐ Test Case 8: Fund Transfer with Negative Amount

Enter a **negative value** in the amount field. Click **Submit**.

**Test Case 9: Successful Bill Payment** 

Login and go to **Pay Bills**.
Select a payee.
Enter a valid amount and date.
Click **Pay**.



**Test Case 10:** Schedule a Bill Payment for a Future Date

Enter a future date in the date field. Click **Pay**.

☐ Test Case 11: Pay Bills Without Entering Amoun Leave the amount field empty.
Click Pay.



#### Test Case 12: Successfully Add a New Payee

Navigate to **Add New Payee**. Enter payee details (Name, Address, Account Number). Click **Add**.

#### **Test Case 13:** Add Payee with Missing Details

Leave any field empty. Click **Add**.

**Objective:** Verify that account statements can be downloaded.



#### **Test Case 14: Download Account Statement**

Navigate to **Statements & Documents**.

Select an account and a date range.

Click **Download PDF**.

**Objective:** Ensure users can log out securely.

#### ☐ Test Case 15: Logout Successfully

#### Login:

The script opens the login page and enters valid credentials (username and password) to log in to the Zero Bank platform.

After clicking the login button, it waits for the account dashboard to load and verifies that the login was successful by checking for the presence of the dashboard.

#### Logout:

After a successful login, the script locates the **Logout button** (or link) by its ID (replace logout-btn with the actual ID of the logout element on the Zero Bank platform).

The script clicks the logout button to initiate the logout process.

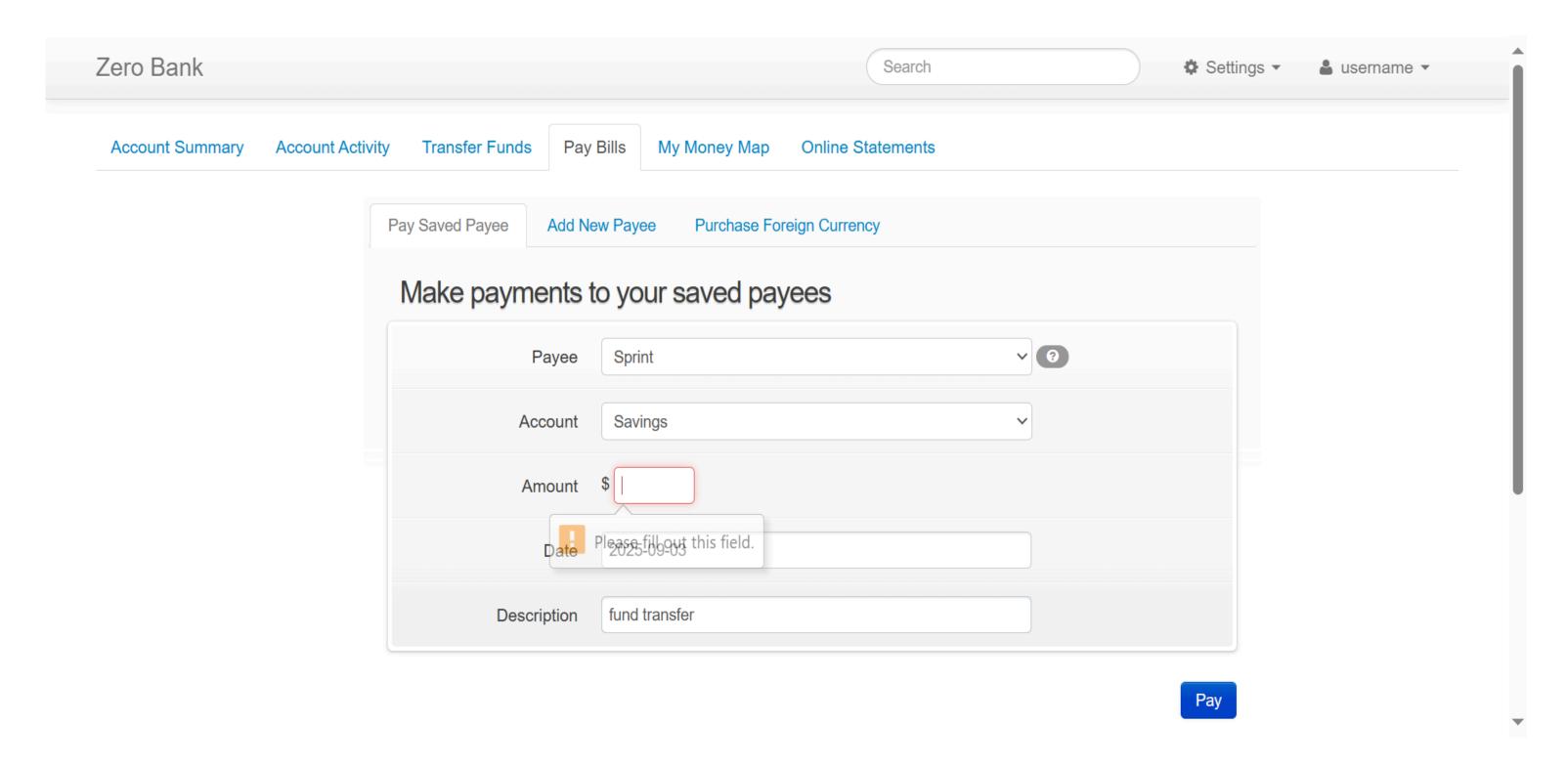


**Test Case 16: Verify Session Expiry After Logout** 

Logout of the application.
Click the **Back button** in the browser.

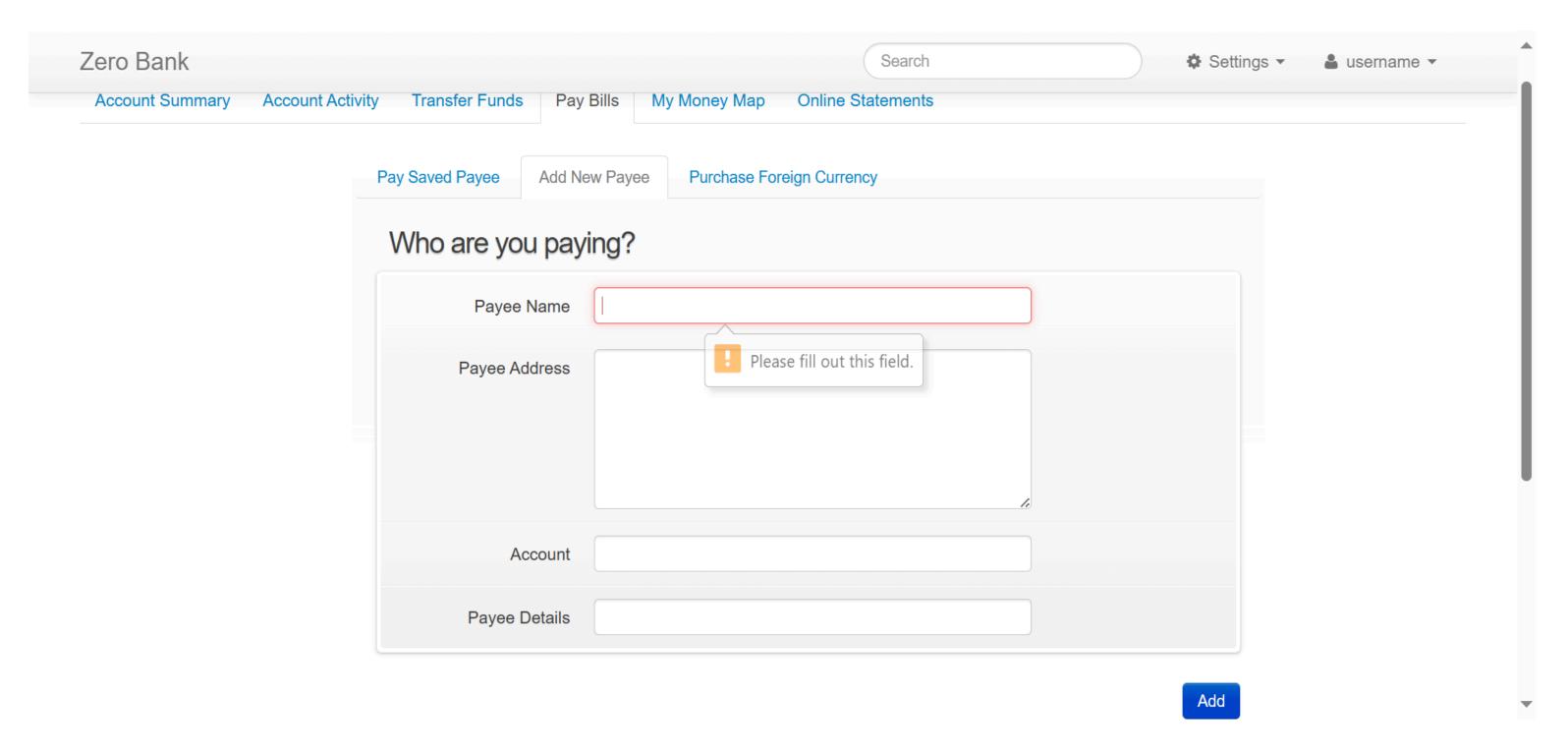


### **Screenshots**



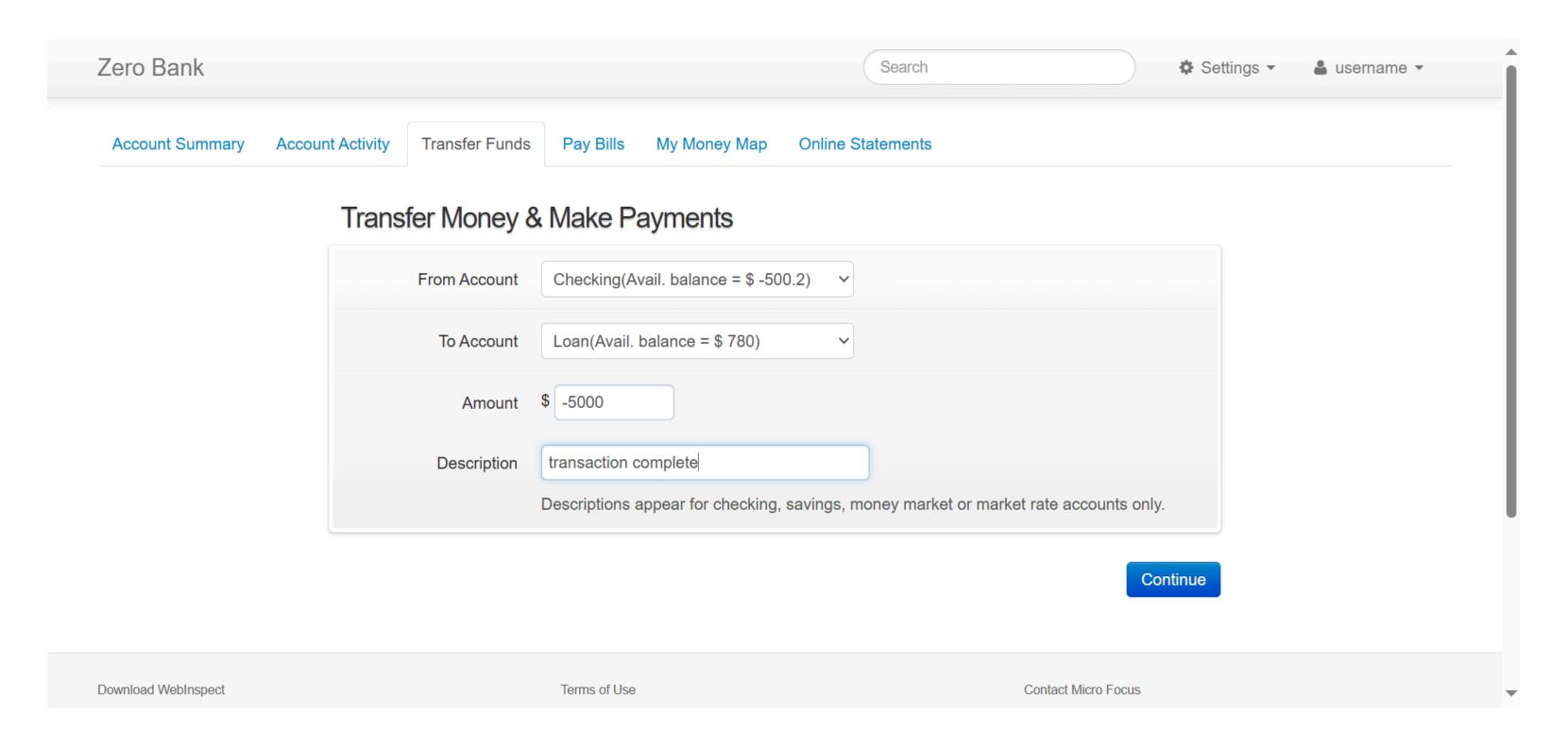


### **Screenshots**





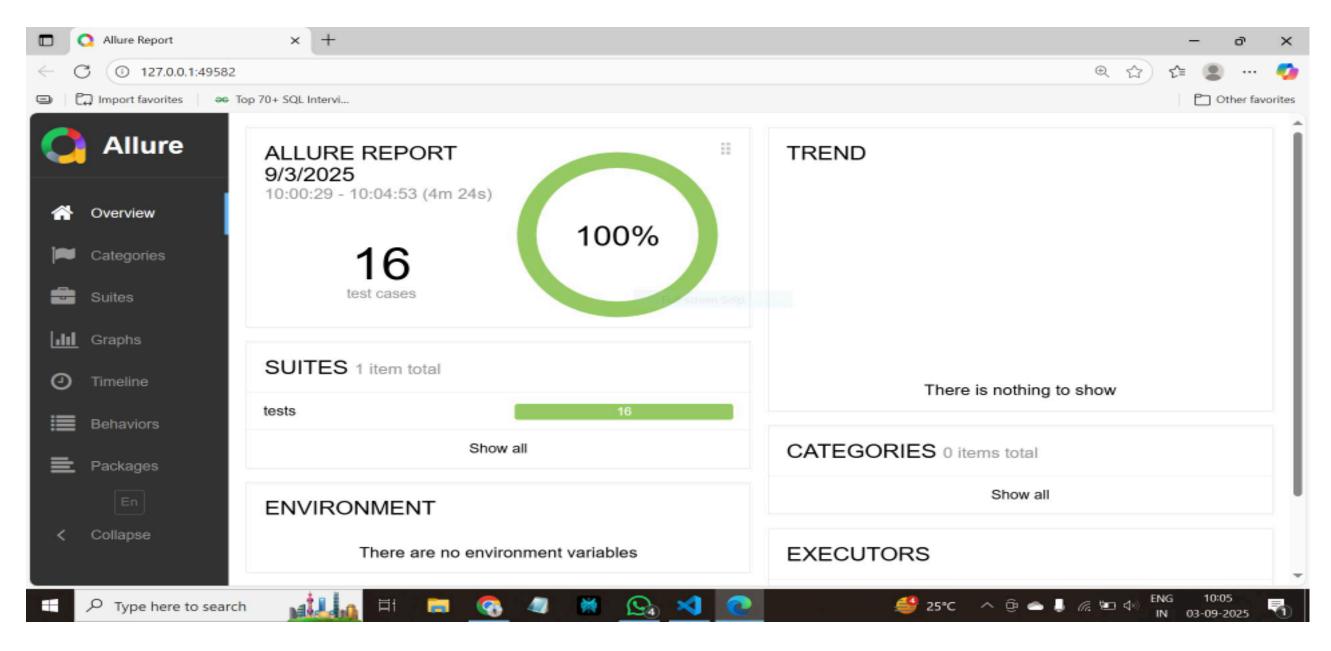
### **Screenshots**





#### **ALLURE WITH SELENIUM**

#### Allure Report





### Conclusion

- ➤ Demonstrates the use of **Selenium and Python** for automating banking web application functionalities.
- > Framework is robust, reusable, and scalable.
- > Provides reliable results and detailed reports.
- > Ensures faster regression testing.
- > Improves overall software quality.





Rakesh.