

Test Automation Assignment with Playwright/TypeScript

Role Background

Within the team, we are dedicated to provide high-quality services to our Online Banking application users.

Your role with the team as a Quality Automation Engineer will include, but is not limited to designing and writing automated tests for the Online Banking application. We use a custom built test framework based on Playwright/TypeScript and follow the Page Object Model (POM) design pattern.

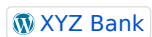
Assignment Intro

As part of this assignment, you will be expected to design and implement a set of automated tests following good test design principles and best practices.

Estimated Duration: 1-2 hours (This is just a guidance, it could take you more or less time which is fine).

Application Under Test

The following example bank website allows customers to perform simple bank operations such as make deposits/withdrawals and view transactions:



Before getting started, it is recommended to get familiar with the web application.

Requirements

Given a set of user stories, we would expect a candidate to provide a running solution that demonstrates the following:

Required:

- Implement automated tests for a set of user stories
- Be able to organise tests in test suites which can be executed separately
- Demonstrate ability to implement different types of tests to validate functionality as well as visual appearance
- Demonstrate ability to go beyond the given acceptance criteria with justification

Nice to have:

- Follow clean code practices such as good naming and method design
- Provide the solution using Git (Can also be provided via email)
- Demonstrate ability to design and implement setup and clean-up steps

Example User Stories

JIRA-1

Epic: Bank Manager Operations

Summary: Create a customer

Description:

As a bank manager

I want to be able to add new bank customers

So that I can provide quality services to our customers

Acceptance Criteria:

- First Name, Last Name and Post Code fields are required
- If operation is successful the following message is displayed: “Customer added successfully with customer id :X”
- If customer already exists the following message is displayed: “Please check the details. Customer may be duplicate.”
- New record is added to the Customers table

Dev notes:

- Support for Chrome, Firefox, Safari

JIRA-2

Epic: Bank Manager Operations

Summary: Open an account

Description:

As a bank manager

I want to be able to open new accounts for existing customers

So that I can provide quality services to our customers

Acceptance Criteria:

- Available currencies: Dollar, Pound, Rupee
- If operation is successful the following message is displayed: “Account created successfully with account Number :X”
- The customer’s record in the Customers table is updated with the new account number

Dev Notes:

- Support for Chrome, Firefox, Safari

JIRA-3

Epic: Bank Customer Operations

Summary: Make a deposit

Description:

As a bank customer

I want to be able to make a deposit to one of my existing accounts

So that I can manage my finances

Acceptance Criteria:

- On successful deposit the following red message is displayed above the ‘Amount to be Deposited’ field: “Deposit Successful”
- The account balance is updated accordingly
- New record is added to the Transactions table with Transaction Type = Credit
- If an empty amount is submitted, the following tooltip is displayed: “Please fill in this field.”

Dev Notes:

- Support for Chrome, Firefox, Safari