

MIRO SIGN UP PAGE

AUTOMATION SOLUTION

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INTRODUCTION

This document provides details about a small test framework developed, with positive & negative / smoke & regression front-end automated test cases for Miro Sign Up Page (<https://miro.com/signup/>)

REQUIREMENTS

- Java 11
- Maven
- Any Browser installed (Chrome, Edge, Firefox)
- [Get the solution:](#)

git clone <https://github.com/maticardenas/miro-test-automation.git>

ABOUT SOLUTION

TECHNOLOGIES

Solution has been developed using following language, frameworks and libraries:

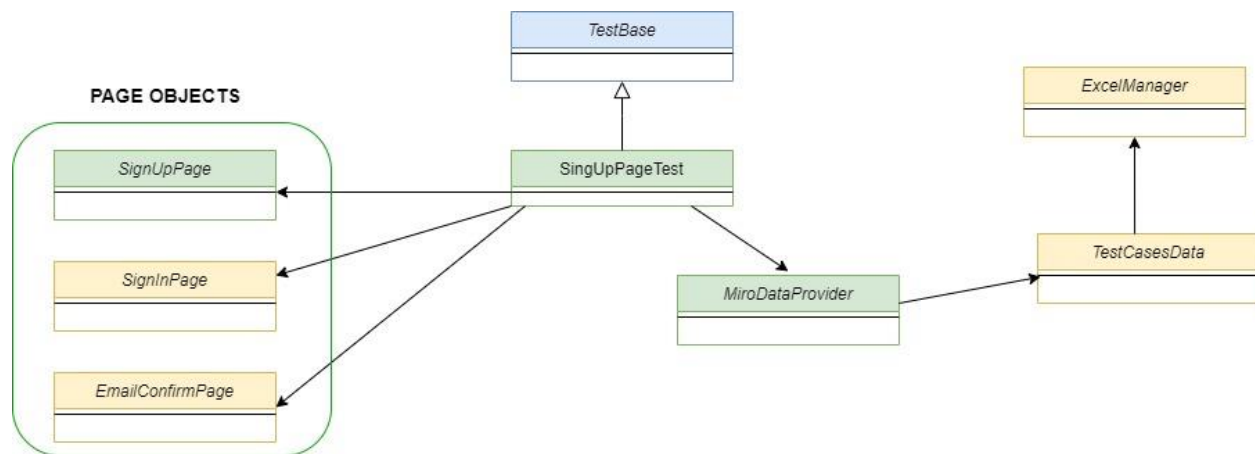
TestNG



Maven™

Se Selenium

DESIGN



Solution was developed utilizing:

- *TestBase class pattern* for initializing / finishing common objects (this allow to add in the future tests for other Miro pages)
- *PageObjects* for identification and actions of elements at Sign Up Page and also Sign In and Email Confirm pages for a few checks in tests
- For some tests *Data Providers* are used, in order to expand the number of scenarios validated. For the case of the test ***signUpNegativeRequiredFields*** data set is taken from an Excel Sheet (src/test/java/com/miro/data/miro_data.xlsx)

| userName | email | password | agreeMiroTerms |
|----------|--------|----------|----------------|
| EMPTY | FILLED | FILLED | SELECTED |
| FILLED | EMPTY | FILLED | SELECTED |
| FILLED | FILLED | EMPTY | SELECTED |
| FILLED | FILLED | FILLED | NOT SELECTED |
| FILLED | EMPTY | EMPTY | SELECTED |
| FILLED | EMPTY | FILLED | NOT SELECTED |
| FILLED | EMPTY | EMPTY | NOT SELECTED |
| EMPTY | FILLED | FILLED | NOT SELECTED |
| EMPTY | FILLED | EMPTY | SELECTED |
| EMPTY | EMPTY | FILLED | SELECTED |
| EMPTY | EMPTY | FILLED | NOT SELECTED |
| EMPTY | EMPTY | EMPTY | NOT SELECTED |

Scenarios are taken row by row, for testing the different combinations that can be possible on the negative sign up tests.

With the implemented functionality, additional sheets can be added to the excel file and easily create new entry data sets for future tests.

EXECUTION

SMOKE TESTS

On the project folder, execute following command. It will execute 4 smoke basic test cases in approximately ~12/13 seconds.

```
> mvn -PSmoke test
```

Test cases included:

- Check page opens successfully
- Get Started without fill
- Sign In button redirects successfully
- Sign Up User Positive Test Case

REGRESSION TESTS

On the project folder, execute following command. It will execute full suite of tests, 32 test cases in approximately 4 minutes.

```
> mvn -PRegression test
```

Test cases included:

-> ALL smokes tests plus:

- Sign up positive without subscribe
- Invalid email format
- Short password - Parametrized -> 7 test cases in total
- Unsafe password - Parametrized -> 4 tests cases in total
- Sign Up required fields - Parametrized (from Excel Sheet) -> 8 test cases in total

After executing the command, execution should begun successfully displaying output similar to this:

```
Users\mcarden\Desktop\Automation\Java\miro-test-automation\miro-test-automation>mvn -Psnake-test
icked up _JAVA_OPTIONS: -Djava.net.preferIPv4Stack=true
[INFO] Scanning for projects...
[WARNING]
[WARNING] Some problems were encountered while building the effective model for org.example:miro-test-automation:jar:1.0-SNAPSHOT
[WARNING] 'dependencies.dependency.version' for org.testing:testing:jar is either LATEST or RELEASE (both of them are being deprecated) @ line 94, column 22
[WARNING]
[WARNING] It is highly recommended to fix these problems because they threaten the stability of your build.
[WARNING]
[WARNING] For this reason, future Maven versions might no longer support building such malformed projects.
[WARNING]
[INFO]
[INFO] -----< org.example:miro-test-automation >-----
[INFO] Building miro-test-automation 1.0-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ miro-test-automation ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource
[INFO]
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ miro-test-automation ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ miro-test-automation ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory C:\Users\mcarden\Desktop\Automation\Java\miro-test-automation\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ miro-test-automation ---
[INFO] Changes detected - recompiling the module!
[WARNING] File encoding has not been set, using platform encoding Cp1252, i.e. build is platform dependent!
[INFO] Compiling 10 source files to C:\Users\mcarden\Desktop\Automation\Java\miro-test-automation\target\test-classes
[WARNING] /C:/Users/mcardena/Desktop/Automation/Java/miro-test-automation/src/test/java/com/miro/core/ExcelManager.java: C:\Users\mcarden\Desktop\Automation\Java\miro-test-automation\target\test-classes
java uses unchecked or unsafe operations.
[WARNING] /C:/Users/mcardena/Desktop/Automation/Java/miro-test-automation/src/test/java/com/miro/core/ExcelManager.java: Recompile with -Xlint:unchecked for details.
[INFO]
[INFO] --- maven-surefire-plugin:3.0.0-M3:test (default-test) @ miro-test-automation ---
[INFO]
[INFO] -----
[INFO] T E S T S
[INFO] -----
[INFO]
[INFO] Surefire Report Generator: 3.0.0-M3
```


REPORTING

Once finished the execution, the tool generates a report at <target/surefire-reports/ExtentReport.html>.

Report generated can be used to check every test executed **and** its result, including the list of steps performed and also counting with charts with % of tests PASSED/FAILED.

!! Report is possible to be opened with any browser, but it's recommended to open it with Google Chrome for better UI appreciation

The screenshot shows the ExtentReports Automation Report interface. On the left, a list of tests is displayed, all marked as 'Pass'. The main panel shows the details for the test 'continueSignUpWithGoogleSuccessful', which was executed on 2021-06-16 at 10:30:02 and 10:30:04, with a duration of 0h 0m 1s+864ms. The test steps are listed in a table:

| STATUS | TIMESTAMP | DETAILS |
|--------|-----------|--|
| ① | 10:30:02 | RUNNING TEST: *** continueSignUpWithGoogleSuccessful *** |
| ① | 10:30:03 | Click Sign Up with Google |
| ① | 10:30:03 | Select Sign Up Terms Google |
| ① | 10:30:03 | Click Sign Up Subscribe with Google |
| ① | 10:30:03 | Click at Continue to Sign Up Google |
| ✓ | 10:30:04 | continueSignUpWithGoogleSuccessful |

The screenshot shows the ExtentReports Automation Report interface. On the left, a list of tests is displayed, with some marked as 'Fail'. The main panel shows the details for the test 'signUpNegativeRequiredFields_EMPTY_EMAIL_PASSWORD', which was executed on 2021-06-16 at 10:30:32 and 10:30:46, with a duration of 0h 0m 13s+909ms. The test steps are listed in a table:

| STATUS | TIMESTAMP | DETAILS |
|--------|-----------|---|
| ① | 10:30:32 | RUNNING TEST: *** signUpNegativeRequiredFields_EMPTY_EMAIL_PASSWORD *** |
| ① | 10:30:35 | Type UserName |
| ① | 10:30:36 | Select SignUpTerms |
| ① | 10:30:36 | Click at GetStartedNow |
| ① | 10:30:36 | Checking required PasswordMessage Exists |
| ① | 10:30:36 | Checking required Email Message Exists |
| ✗ | 10:30:46 | signUpNegativeRequiredFields_EMPTY_EMAIL_PASSWORD |

The failure details for the test are shown below the table:

```
org.openqa.selenium.TimeoutException: Expected condition failed: waiting for visibility of
lize-space()='Please enter your email address.'])' (tried for 5 second(s) with 500 millisec
at org.openqa.selenium.support.ui.WebDriverWait.timeoutException(WebDriverWait.java:72)
at org.openqa.selenium.support.ui.FluentWait.until(FluentWait.java:272)
at com.miro.webpages.SignUpPage.enterYourEmailErrorExists(SignUpPage.java:161)
at com.miro.utils.MiroTestUtils.validateErrorMessage(MiroTestUtils.java:27)
at com.miro.tests.SignUpTest.signUpNegativeRequiredFields(SignUpTest.java:171)
at java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
at java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAcc
at java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingM
at java.base/java.lang.reflect.Method.invoke(Method.java:566)
at org.testng.internal.MethodInvocationHelper.invokeMethod(MethodInvocationHelper
at org.testng.internal.TestInvoker.invokeMethod(TestInvoker.java:598)
```

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