

Pega Selenium Starter Kit- Running Tests

Contents

What's this guide?	2
Prerequisites	2
Test Organization	2
Test Execution	2
Setting Global Properties	3
Maven Way	4
Cucumber Options	5
Selecting Tests to Run	7
Test Results	10
Interpreting Test Results Summary	10
Test Report.....	10
Cucumber HTML Report	10
Interpreting Cucumber HTML Test Report.....	12
Test Logs	12
Failure Diagnosis	13
Test Log & Results Summary	13
Test Report.....	14
Debugging	17
Debug Mode.....	17
Screenshot	17
Managing Timeouts.....	17
IntelliJ Tips	18
Running Tests	18
Related Documentation.....	18
References	18

What's this guide?

This document describes how to execute CRM tests shipped out of the box with the Selenium Starter Kit. It assumes that you have your test environment already configured to run the tests. If not, refer to the [setup guide](#) for instructions to set up your environment and test project(s).

This guide uses Sales Automation application as an example, but the content is applicable to other CRM applications that are part of this suite.

Prerequisites

- Successfully setup and built pega-crm-ui-testframework project.

If do not have the project ready, refer to the [setup guide](#).

Test Organization

Test organization is an essential aspect of test design and development. A well-organized test bed can facilitate better navigability as well as help with test selection. In this example project, [Cucumber Tags](#) are used to organize features and scenarios. For example, here's Opportunity.feature file that groups all scenarios related to Sales Automation Opportunities feature.

@opportunity @smoke @smoke-sales-automation

Feature: Basic Opportunity flows

Tests covering the core Opportunity flow actions like Create, Change Stage and Closing an opportunity.

Background:

Given User logs in to SA Application as salesrep

@TC-create-business-opportunity

Scenario Outline: Creating a Business Opportunities

Given navigates to "Opportunities" List page

When users clicks on Create OpprotunityButton and selects "<Opptype>"

When Enters all the mandatory data for "<Opptype>"

Then "<Opptype>" Opportunity should be created

Then opportunity should have all the tabs

Examples:

Opptype	
Business	

Tags not only serve the purpose of organizing tests but also offer a means for test selection. You will see more on that in the following [Test Execution](#) section

Test Execution

Tests shipped with this kit are Cucumber/Gherkin based behavior driven (BDD) tests. [Cucumber tests can be run](#) from command line using the CLI Runner, [build tool](#) or an [IDE](#). In this project, we will use the Maven build tool approach as an example.

Setting Global Properties

Global settings and test requirements are defined in <PROJECT_ROOT>/data/global-settings.properties. Changing these settings will allow to customize test execution. The following tables show the list of properties:

Application Information:

Property	Description
instance.url	URL of the application under test

Browser Configuration:

Property	Description
browser.name	Name of the browser used for testing. Supported browsers: <ul style="list-style-type: none">• chrome• firefox• ie• safari• htmlunit
chrome.driver ie.driver edge.driver chrome.driver.linux	Path to the appropriate browser binaries/driver
isChromeAutoDownload	By default, we attempt to download an appropriate chrome driver automatically through our custom utility. If it fails, set this property to false and copy the driver manually to binaries folder

Diagnostics & Debug Settings:

Property	Description
debug.mode	Boolean indicating whether to keep the browser open after test execution
enable.fullscreen.mode	Boolean indicating whether tests run in full screen mode
global.timeout	Override maximum wait time for the web elements to load (secs). Default timeout is 300 seconds.

Test Environment Configuration:

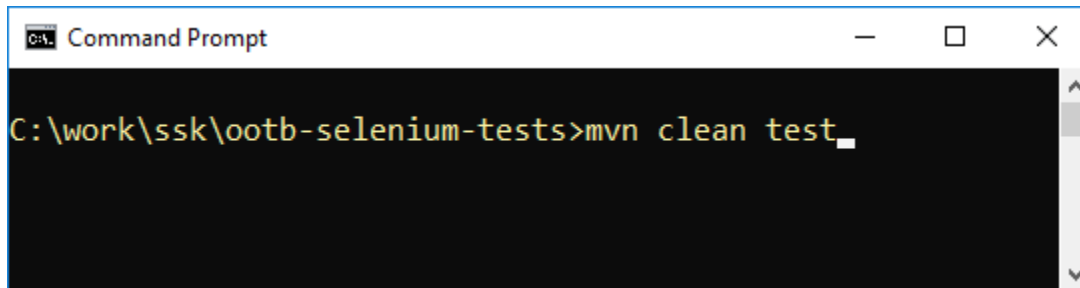
Property	Description
hub.url	URL to selenium grid hub for Cross Browser Testing. If this is not set, tests run locally
capabilities	Any custom capabilities provided by the external selenium grid providers like crossbrowsertesting / saucelabs / browserstock. Multiple capabilities can be provided by separating them with , and :

	capabilities=capability1:value1, capability2:value2, capability3:value3,
--	--

Maven Way

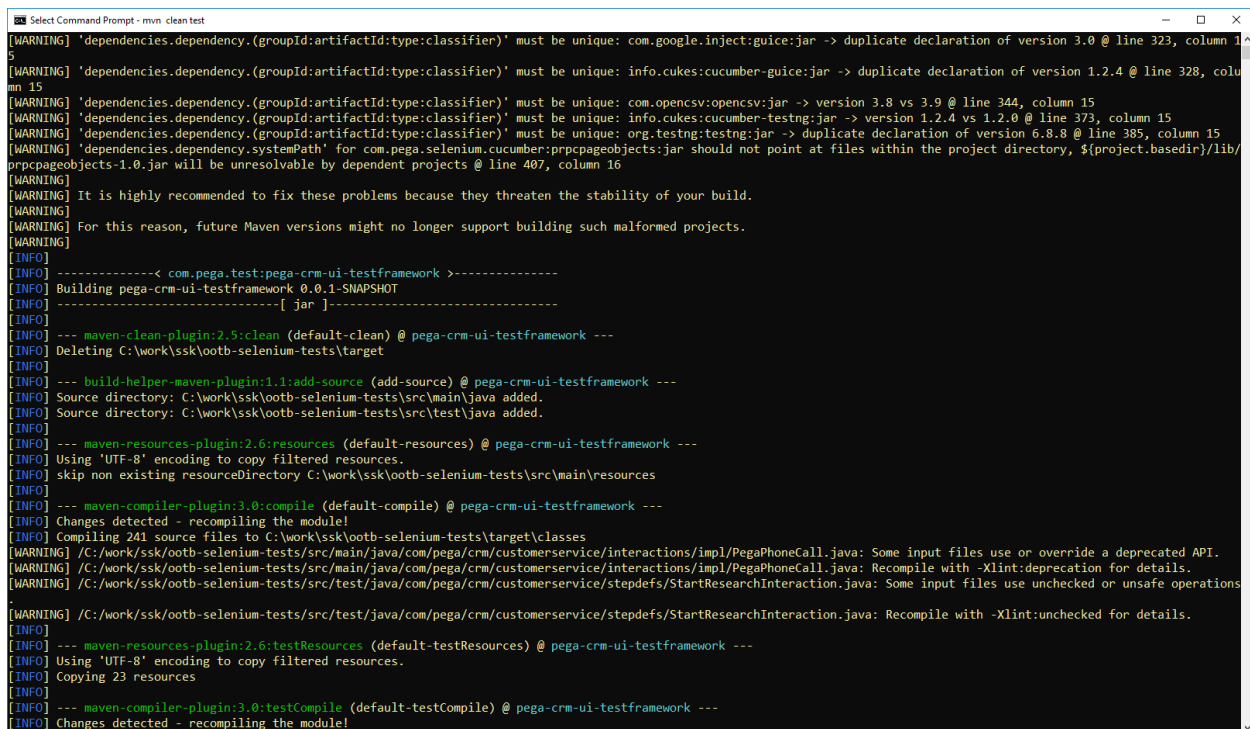
Command Line

To use Maven CLI to run Cucumber tests, invoke the following command from the project root location:



```
C:\work\ssk\ootb-selenium-tests>mvn clean test
```

...



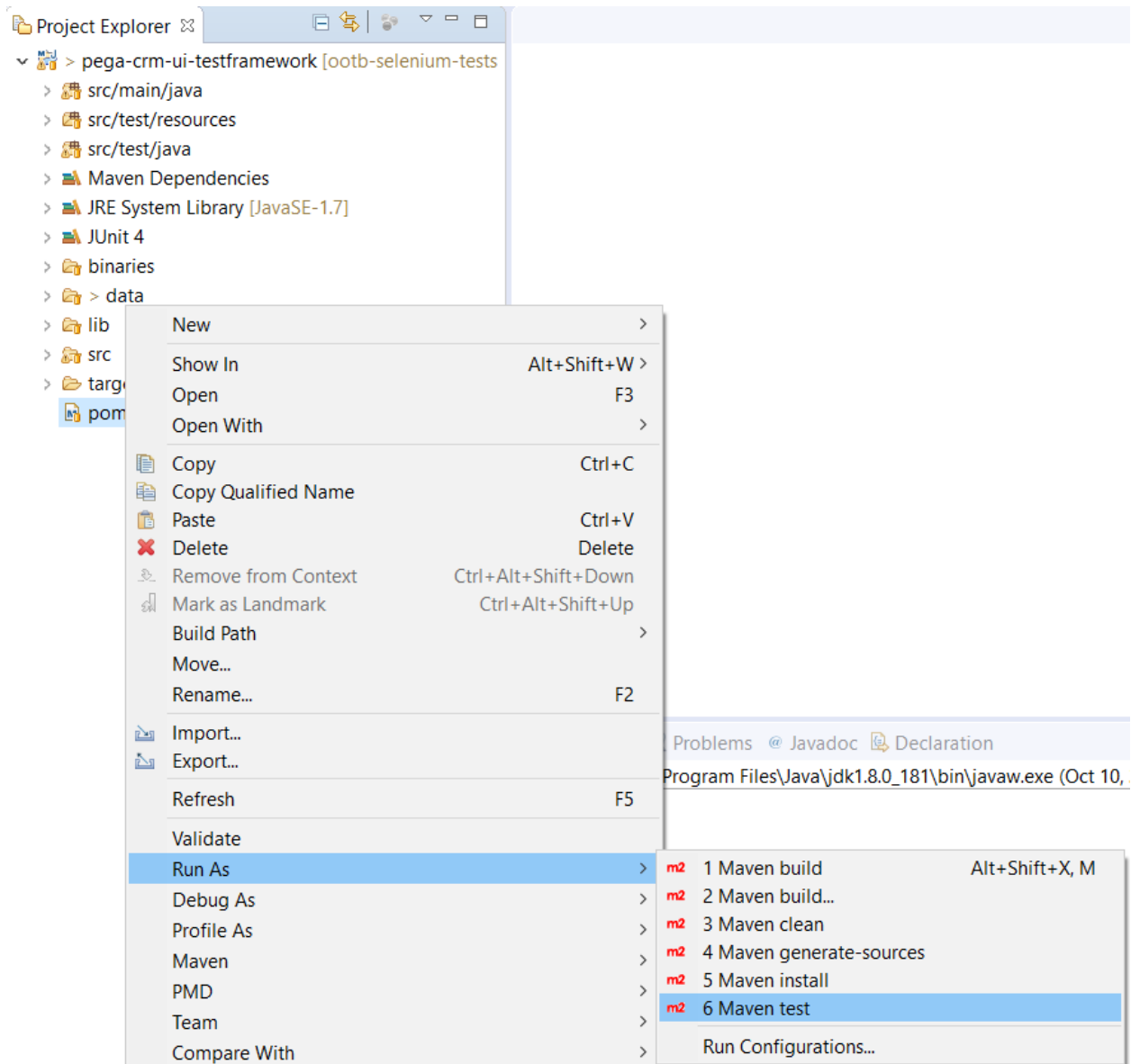
```
Select Command Prompt - mvn: clean test
[WARNING] 'dependencies.dependency.(groupId:artifactId:type:classifier)' must be unique: com.google.inject:guice:jar -> duplicate declaration of version 3.0 @ line 323, column 15
[WARNING] 'dependencies.dependency.(groupId:artifactId:type:classifier)' must be unique: info.cukes:cucumber-guice:jar -> duplicate declaration of version 1.2.4 @ line 328, column 15
[WARNING] 'dependencies.dependency.(groupId:artifactId:type:classifier)' must be unique: com.openscv:opencv:jar -> version 3.8 vs 3.9 @ line 344, column 15
[WARNING] 'dependencies.dependency.(groupId:artifactId:type:classifier)' must be unique: info.cukes:cucumber-testng:jar -> version 1.2.4 vs 1.2.0 @ line 373, column 15
[WARNING] 'dependencies.dependency.(groupId:artifactId:type:classifier)' must be unique: org.testng:testng:jar -> duplicate declaration of version 6.8.8 @ line 385, column 15
[WARNING] 'dependencies.dependency.systemPath' for com.pegaselenium:cucumber:prpcpageobjects:jar should not point at files within the project directory, ${project.basedir}/lib/prpcpageobjects-1.0.jar will be unresolvable by dependent projects @ line 407, column 16
[WARNING] It is highly recommended to fix these problems because they threaten the stability of your build.
[WARNING] For this reason, future Maven versions might no longer support building such malformed projects.
[INFO] -----< com.pegaselenium:test:pega-crm-ui-testframework >-----
[INFO] Building pega-crm-ui-testframework 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ pega-crm-ui-testframework ---
[INFO] Deleting C:\work\ssk\ootb-selenium-tests\target
[INFO] --- build-helper-maven-plugin:1.1:add-source (add-source) @ pega-crm-ui-testframework ---
[INFO] Source directory: C:\work\ssk\ootb-selenium-tests\src\main\java added.
[INFO] Source directory: C:\work\ssk\ootb-selenium-tests\src\test\java added.
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ pega-crm-ui-testframework ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory C:\work\ssk\ootb-selenium-tests\src\main\resources
[INFO] --- maven-compiler-plugin:3.0:compile (default-compile) @ pega-crm-ui-testframework ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 241 source files to C:\work\ssk\ootb-selenium-tests\target\classes
[WARNING] C:\work\ssk\ootb-selenium-tests\src\main\java\com\pegaselenium\customerservice\interactions\impl\PegaPhoneCall.java: Some input files use or override a deprecated API.
[WARNING] C:\work\ssk\ootb-selenium-tests\src\main\java\com\pegaselenium\customerservice\interactions\impl\PegaPhoneCall.java: Recompile with -Xlint:deprecation for details.
[WARNING] C:\work\ssk\ootb-selenium-tests\src\test\java\com\pegaselenium\customerservice\stepdefs\StartResearchInteraction.java: Some input files use unchecked or unsafe operations.
[WARNING] C:\work\ssk\ootb-selenium-tests\src\test\java\com\pegaselenium\customerservice\stepdefs\StartResearchInteraction.java: Recompile with -Xlint:unchecked for details.
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ pega-crm-ui-testframework ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Copying 23 resources
[INFO] --- maven-compiler-plugin:3.0:testCompile (default-testCompile) @ pega-crm-ui-testframework ---
[INFO] Changes detected - recompiling the module!
```

Eclipse IDE

To run Cucumber with Maven from within the IDE, make sure Maven is installed, M2_HOME is correctly configured, and the IDE is configured with the latest Maven installation. Refer to Maven setup in the Setup Guide.

Before we trigger any test, make sure the screen resolution is set to 1920x1080 minimum, as this is the minimum resolution to run the tests successfully. Also make sure the tests run in full screen mode by setting enable.fullscreen.mode property to true in global-settings.properties file

To trigger test execution, in Eclipse IDE, right click on the `pom.xml` of the project and select **Run As** > **Maven test**



Cucumber Options

Cucumber framework provides several [options](#) for configuring test execution. Typically, when running tests from command line, these options can be provided in the JUnit runner class using the `@CucumberOptions` annotation. For example:

```
import cucumber.api.CucumberOptions;
import cucumber.api.testng.AbstractTestNGCucumberTests;

@CucumberOptions(plugin = {"pretty", "html:cucumber-htmlreport"})
public class RunCukesTest extends AbstractTestNGCucumberTest {
```

```
...  
}
```

When using Maven, however, these options can be passed using the “-Dcucumber.options” argument as follows:

```
>> mvn test -Dcucumber.options=<OPTS>
```

For example, the following command pretty formats the test report generated at the end of the test execution:

```
>> mvn test -Dcucumber.options="--plugin pretty --plugin  
html:latestreports/cucumberhtmlreports"
```

Passing “-Dcucumber.options” argument to Maven command overrides options specified in the Junit runner class.

In this project, the cucumber options are defined in the pom.xml file:

```
<properties>  
  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>  
  <tags>@smoke-sales-automation</tags>  
  <baseClass>com.pegasys.CRMTestEnvironment</baseClass>  
  <maven.compiler.target>1.8</maven.compiler.target>  
  <maven.compiler.source>1.8</maven.compiler.source>  
  <reportsDir>LatestReports</reportsDir>  
  <testReportsDir>${reportsDir}/${tags}</testReportsDir>  
  <buildName>${BUILD_DISPLAY_NAME}- ${team.name}</buildName>  
  <archived.reportsDir>${basedir}/ArchivedReports/${buildName}</archived.reportsDir>  
</properties>  
  
<profiles>  
  <profile>  
    <id>Cucumber-OneStepDef</id>  
    <activation>  
      <property>  
        <name>runMode</name>  
        <value>Cucumber-OneStepDef</value>  
      </property>  
      <activeByDefault>true</activeByDefault>  
    </activation>  
    <build>  
      <plugins>  
        <plugin>  
          <groupId>org.apache.maven.plugins</groupId>  
          <artifactId>maven-surefire-plugin</artifactId>  
          <version>2.18</version>  
          <configuration>  
            <systemPropertyVariables>  
              <runMode>${runMode}</runMode>  
              <testReportsDir>${testReportsDir}</testReportsDir>  
            </systemPropertyVariables>  
            <argLine>-Dcucumber.options=" --tags  
              "${tags}"  
              --plugin pretty  
              --plugin  
              html:"${testReportsDir}"/cucumber-htmlreport  
              --plugin  
              junit:"${testReportsDir}"/cucumber-junitreport.xml  
              --plugin  
              json:"${testReportsDir}"/cucumber-report.json"  
              -Dguice.injector-source=com.pegasys.config.guice.GuiceInjector  
              -Dfile.encoding=UTF-8  
              -DbaseClass="${baseClass}"</argLine>  
            <reportsDirectory>${testReportsDir}/surefire-reports</reportsDirectory>  
          </configuration>  
        </plugin>  
      </plugins>  
    </build>  
  </profile>  
</profiles>
```



Selecting Tests to Run

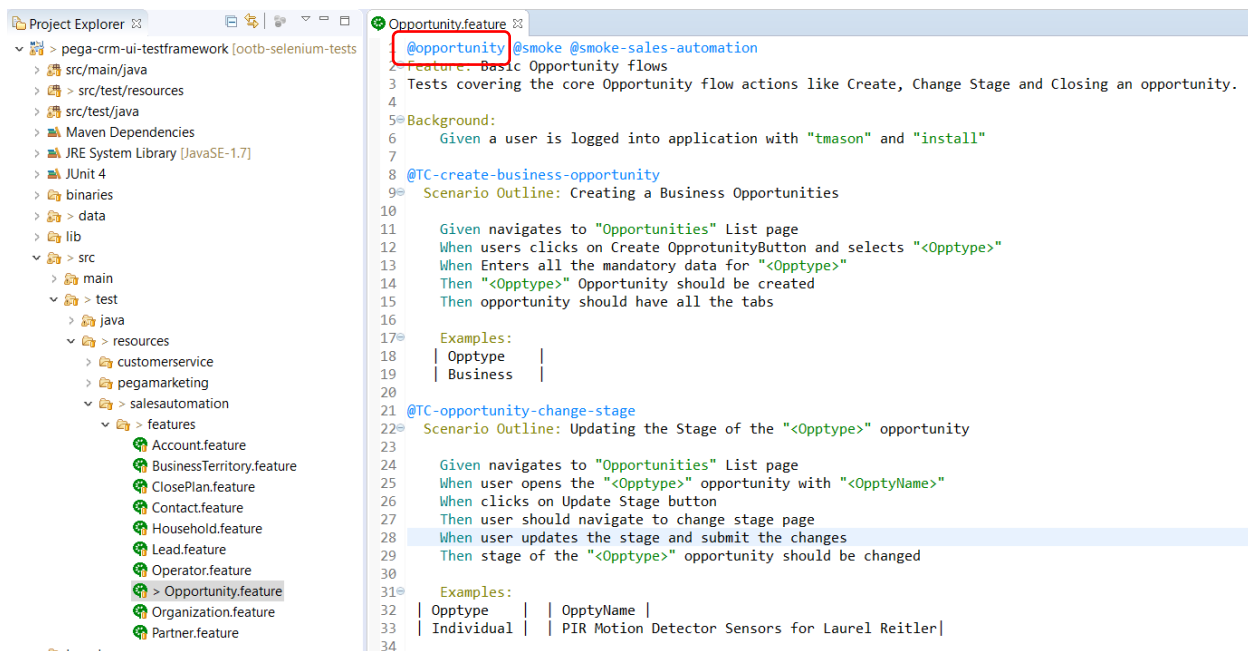
So far, we looked at how to trigger test execution but how do we select what tests to run. This is where Cucumber Tags come into play.

Generally, you define what tests to run in the Cucumber options specification. You select the features and scenarios to run using Cucumber Tags (--tags) or Regular expression (--name) depending on how you organize your tests.

In this sample CRM project, the OOTB tests are organized using tags. See [Test Organization](#) section for more information.

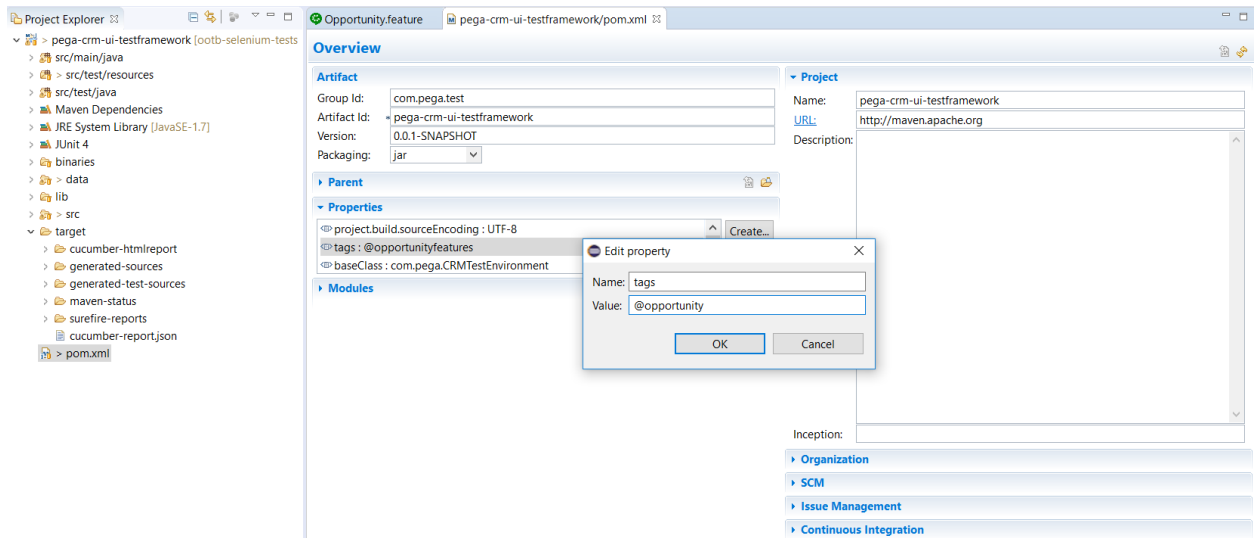
Running tagged features/scenarios

Let's assume you want to run all scenarios related to Sales Opportunities. The project organizes all sales opportunities related tests with @opportunityfeatures tag.

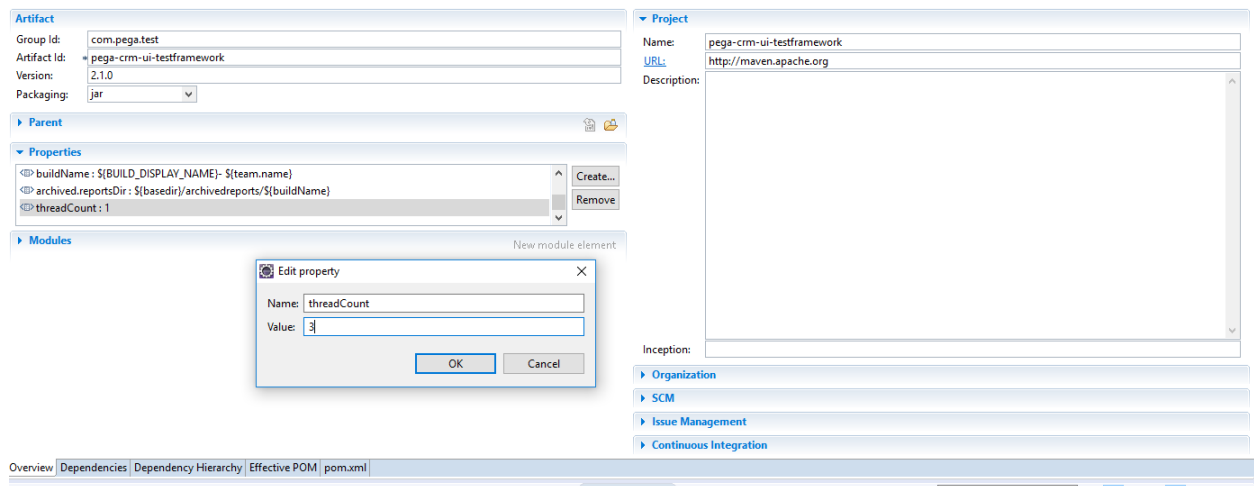


Update the pom file to select appropriate tests:

1. Open the pom.xml file
2. In Properties section, double click on the tags property to set it to an appropriate value. In this case, that would be @opportunity.



3. Click OK
4. If user wants to run multiple test cases in parallel then In Properties section, double click on the threadCount property to set it to an appropriate value. For example, if user wants to run three test cases parallelly , the value would be 3

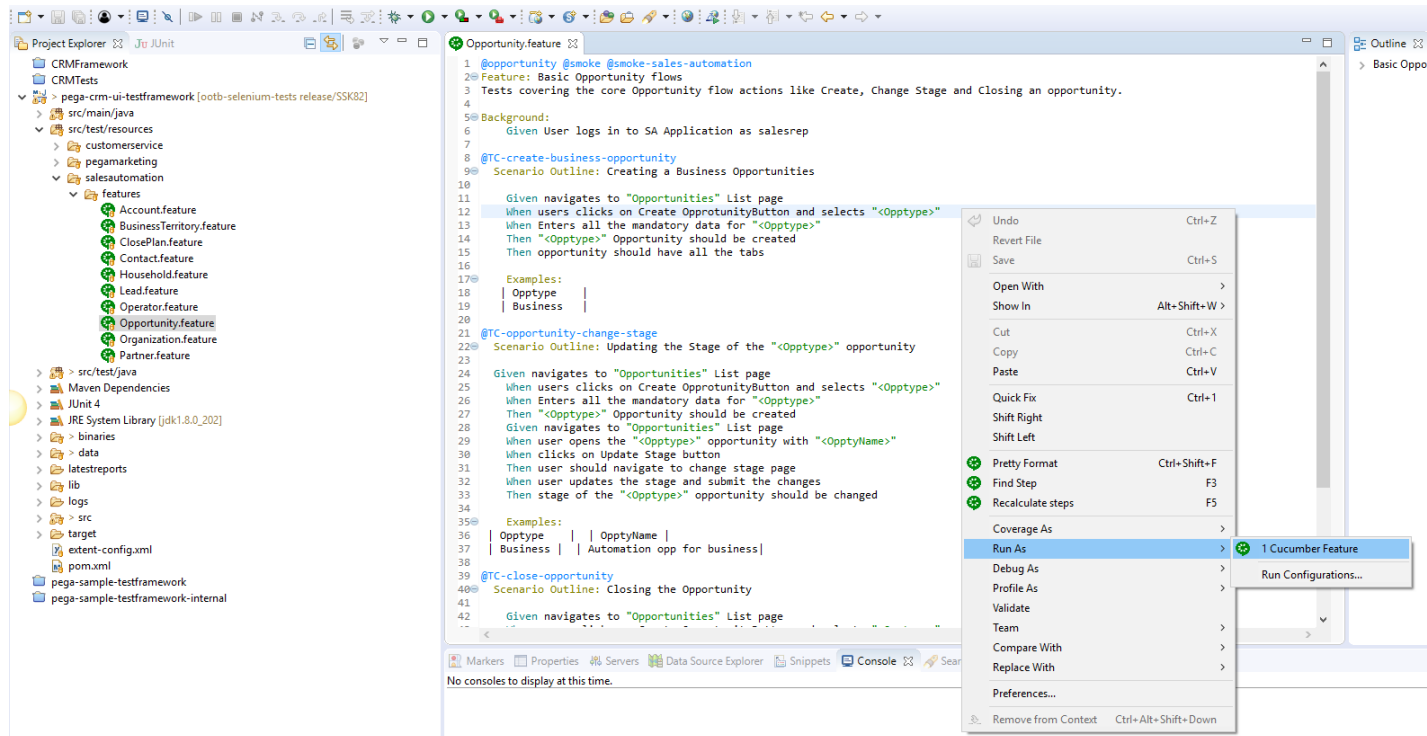


5. Click OK
6. Run tests as usual using Maven commands

Tags can be used to group both scenarios as well as features.

Running a Cucumber feature

For rapid iterative development, you can also run a selected Cucumber feature file directly as shown below:



1. In the feature file to run, Right click and select **Run As > Cucumber Feature**.

This will trigger execution of all scenarios within that feature file sequentially. Running a Cucumber feature directly will produce the test result in the IDE console. A cucumber report will not be generated with this mode of execution.

Here is a sample console report for running tests as a cucumber feature

```

16:43:16.361 [main] DEBUG com.pegasync.WaitForDocStateReady - Entering DocStateReady...
16:43:16.436 [main] INFO com.pegasync.WaitForDocStateReady - Current Active Frame ID: PegaGadget1Ifr
16:43:16.497 [main] DEBUG com.pegasync.WaitForDocStateReady - Time taken for wait after click on element<window.frames['PegaGadget1Ifr'].document.evaluate("//h3[text()
16:43:16.523 [main] INFO com.pegasync.WaitForDocStateReady - Verify element for presence of: By.xpath: //body[contains(text(),'Close Plans')]
16:43:16.541 [main] DEBUG com.pegasync.WaitForDocStateReady - Debug mode is: true
Unable to take screenshot<br/>

#author : ABCD
@TC-02 @smoke
Scenario: Sample Scenario to open forecast # C:/Workspaces/BaseUIFrameworkDemo/pega-sample-testframework/src/test/resources/features/forecastTest.feature:5
  Given A User logs in with "tmason" and "install" # MyAppBrowser.login(String,String)
  When user opens the forecast workobjects page # SalesManagerStepDefs.user_opens_the_forecast_workobjects_page()
  And switches to close plans tab # ForecastStepDefs.switches_to_close_plans_tab()
  Then close plans view should be available # ForecastStepDefs.close_plans_view_should_be_available()
    java.lang.AssertionError: expected [true] but found [false]
      at org.testng.Assert.fail(Assert.java:94)
      at org.testng.Assert.failNotEquals(Assert.java:494)
      at org.testng.Assert.assertTrue(Assert.java:42)
      at org.testng.Assert.assertTrue(Assert.java:52)
      at stepdefs.ForecastStepDefs.close_plans_view_should_be_available(ForecastStepDefs.java:61)
      at ?.Then close plans view should be available(C:/Workspaces/BaseUIFrameworkDemo/pega-sample-testframework/src/test/resources/features/forecastTest.feature:9)

Failed scenarios:
C:/Workspaces/BaseUIFrameworkDemo/pega-sample-testframework/src/test/resources/features/forecastTest.feature:5 # Scenario: Sample Scenario to open forecast

1 Scenarios (1 failed)
4 Steps (1 failed, 3 passed)
1m36.350s

java.lang.AssertionError: expected [true] but found [false]
  at org.testng.Assert.fail(Assert.java:94)
  at org.testng.Assert.failNotEquals(Assert.java:494)
  at org.testng.Assert.assertTrue(Assert.java:42)
  at org.testng.Assert.assertTrue(Assert.java:52)
  at stepdefs.ForecastStepDefs.close_plans_view_should_be_available(ForecastStepDefs.java:61)
  at ?.Then close plans view should be available(C:/Workspaces/BaseUIFrameworkDemo/pega-sample-testframework/src/test/resources/features/forecastTest.feature:9)

```

Test Results

At the end of test execution, Eclipse Console window shows the test result summary as follows:

```

3 Scenarios (2 failed, 1 passed)
19 Steps (2 failed, 5 skipped, 12 passed)
7.702s

```

Interpreting Test Results Summary

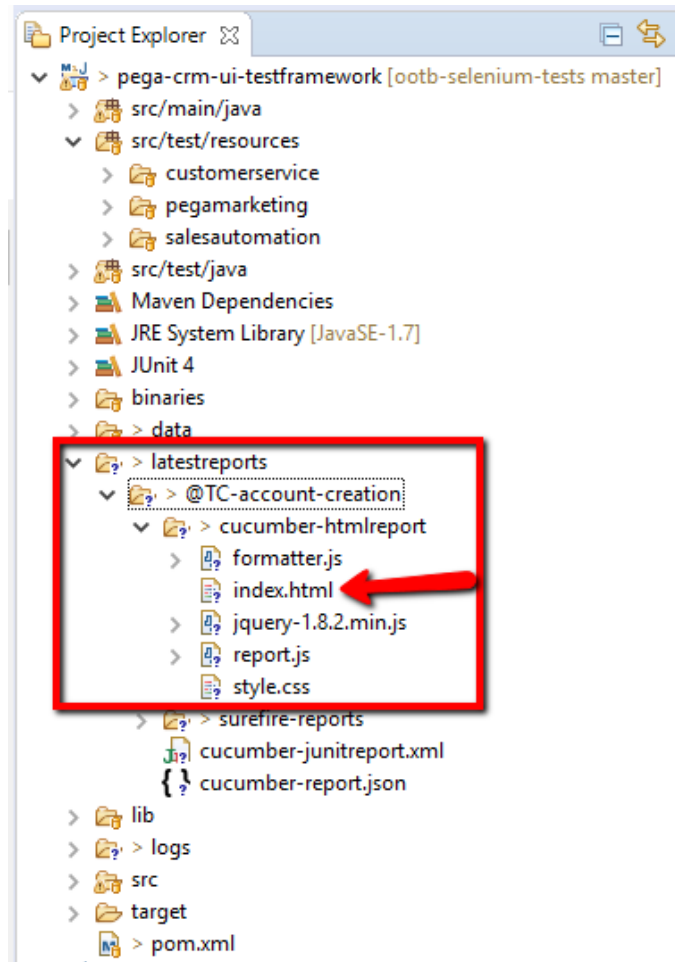
- “3 Scenarios” reflects the 3 scenarios that are tagged with @opportunities tag
- “19 Steps” reflects the total number of steps across all scenarios being tested
- failed, skipped, passed reflect the status of scenario execution

Test Report

In addition to the results summary, test reports are produced for better visualization and analysis of test results.

Cucumber HTML Report

Cucumber plugin for Eclipse enables producing a test report at the end of test execution. As defined in the pom file, an HTML report is generated and placed in latestreports/cucumber-htmlreport folder.



latestreports/cucumber-htmlreport/index.html is the generated HTML report. Results are also available in junit xml and json formats – cucumber-junitreport.xml and cucumber-report.json

file:///C:/Repositories/CRM_SSK/ootb-selenium-tests/latestreports/@TC-account-creation/cucumber-htmlreport/index.html

@account @smoke @smoke-sales-automation **Feature:** Sales Automation Account feature

Test covering the creation of Account and editing flow actions

Background:

Given a user is logged into application with "skendall" and "install"

@TC-account-creation **Scenario:** Creating a Account

Given navigates to "Accounts" List page

When user clicks on CreateAccount button

Then user should navigate to Account creation page

When user enters all the mandatory data and saves the changes

Then Account should be created

@TC-opportunity-change-stage Scenario Outline: Updating the Stage of the "<Oppty>" opportunity

Given navigates to "Opportunities" List page
When user opens the "<Oppty>" opportunity with "<OpptyName>"
When clicks on Update Stage button
Then user should navigate to change stage page
When user updates the stage and submit the changes
Then stage of the "<Oppty>" opportunity should be changed

Examples:

Opptytype	OpptyName
Individual	PIR Motion Detector Sensors for Laurel Reitler

Background:

Given a user is logged into application with "tmason" and "install"

@smoke @TC-opportunity-change-stage @opportunityfeatures @smoke-sales-automation Scenario Outline: Updating the Stage of the "Individual" opportunity

Given navigates to "Opportunities" List page
When user opens the "Individual" opportunity with "PIR Motion Detector Sensors for Laurel Reitler"
When clicks on Update Stage button
Then user should navigate to change stage page
When user updates the stage and submit the changes
Then stage of the "Individual" opportunity should be changed

@TC-close-opportunity Scenario Outline: Closing the Opportunity

Given navigates to "Opportunities" List page
When users clicks on Create OpprotunityButton and selects "<Oppty>"
When Enters all the mandatory data for "<Oppty>"
Then "<Oppty>" Opportunity should be created
Given navigates to "Opportunities" List page
When user opens the "<Oppty>" opportunity with "<OpptyName>"
When clicks on Close button for "<Oppty>" Opportunity
When user enters the reason for closing of opportunity and saves the changes
Then "<Oppty>" opportunity should be closed

Examples:

Opptytype	OpptyName
Business	Automation opp for business

Background:

Given a user is logged into application with "tmason" and "install"

@smoke @TC-close-opportunity @opportunityfeatures @smoke-sales-automation Scenario Outline: Closing the Opportunity

Given navigates to "Opportunities" List page
When users clicks on Create OpprotunityButton and selects "Business"
When Enters all the mandatory data for "Business"
Then "Business" Opportunity should be created
Given navigates to "Opportunities" List page
When user opens the "Business" opportunity with "Automation opp for business"
When clicks on Close button for "Business" Opportunity
When user enters the reason for closing of opportunity and saves the changes
Then "Business" opportunity should be closed

Interpreting Cucumber HTML Test Report

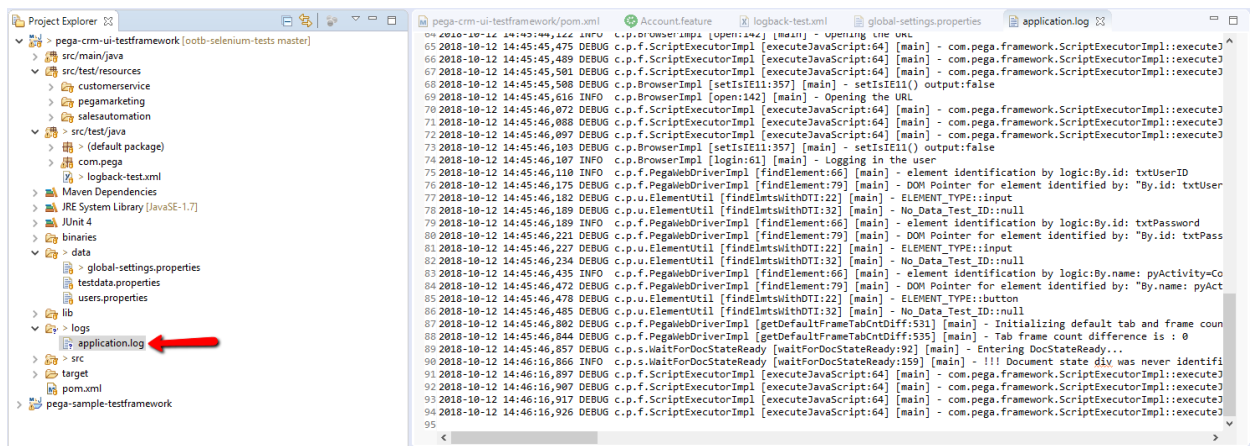
The HTML reports shows

1. Features & scenarios being tested along with their associated tags
2. Color-coded statuses for scenarios/steps executed
 - a. Green – successful execution of the scenario/step (passed)
 - b. Red – failed execution of the scenario/step (failed)
 - c. Blue – skipped execution of a step (skipped)

Test Logs

Logging is enabled in the framework via logback classic framework. An xml file logback-test.xml is available in src/test/java source folder. Logging levels can be controlled via this xml file.

The default log level is debug (`<root level="debug">`) which can be changed to info/warn/error level to minimize the amount of logs displayed to the console. A copy of these logs are also saved to application.log file under logs folder as displayed below.



Failure Diagnosis

To illustrate diagnosing failures, we will force a failure by perturbing the expected value of the “Search by organization” scenario in Sales Automation’s ClosePlan.feature

Scenario: Search by organization

Given a sales rep is at the Close Plans page

When the rep searches for "APW Technologies Corp" organization

Then opportunities related only to "APW Inc" are shown

Forced
Failure

When a test fails, there are multiple diagnostics that help identify and debug the failure.

- [Console Output](#)
 - Results Summary
 - Failure Stack
- [Test Reports](#)
- [Debug Options](#)

Test Log & Results Summary

Scenario: Search by organization # salesautomation/features/ClosePlan.feature:6

Given a sales rep is at the Close Plans page #
ForecastClosePlans.a_sales_rep_is_at_the_Close_Plans_page()

When the rep searches for "APW Technologies Corp" organization #
ForecastClosePlans.the_rep_searches_for_organization(String)

Then opportunities related only to "APW Inc" are shown #
ForecastClosePlans.relevant_opportunities_are_shown(String)

Failure Message



```
java.lang.AssertionError: Expected organization 'APW Inc' not found. expected [true] but found [false]
```

```
    at org.testng.Assert.fail(Assert.java:94)
    at org.testng.Assert.failNotEquals(Assert.java:494)
    at org.testng.Assert.assertTrue(Assert.java:42)
    at
com.pegacrm.salesautomation.stepdefs.ForecastClosePlans.relevant_opportunities_are_shown(ForecastClosePlans.java:65)
    at @Then opportunities related only to "APW Inc" are
shown(salesautomation/features/ClosePlan.feature:9)
```

Failed scenarios:

salesautomation/features/ClosePlan.feature:6 # Scenario: Search by organization

Failure Stack

1 Scenarios (1 failed)

3 Steps (1 failed, 2 passed)

0m36.495s

...

Results :

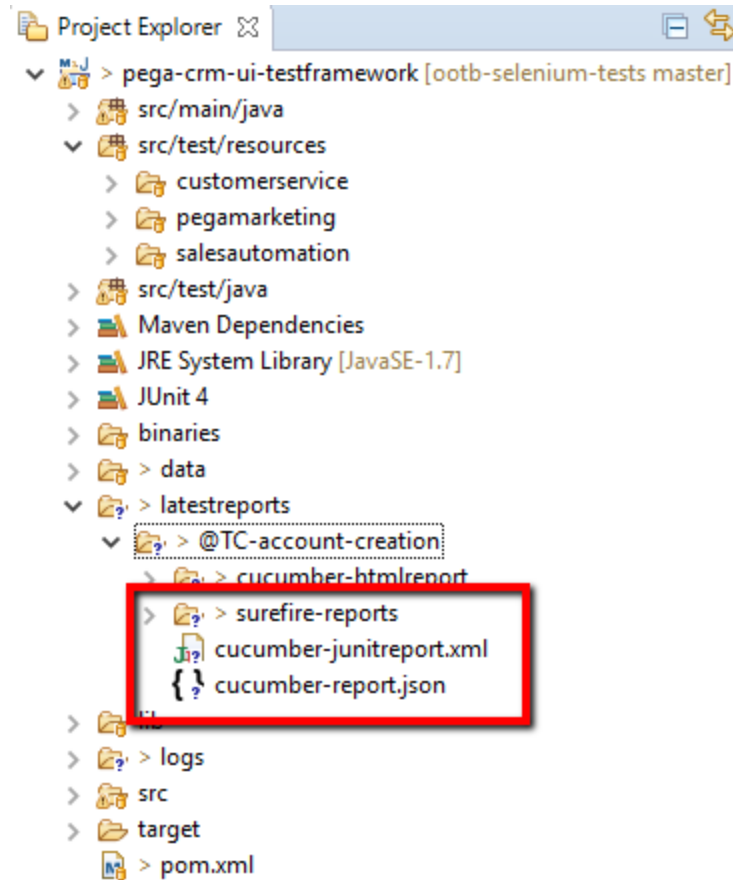
Failed tests:

RunCukesTest>AbstractTestNGCucumberTests.run:19->AbstractTestNGCucumberTests.run_cukes:14 » Cucumber
Tests run: 1, Failures: 1, Errors: 0, Skipped: 0

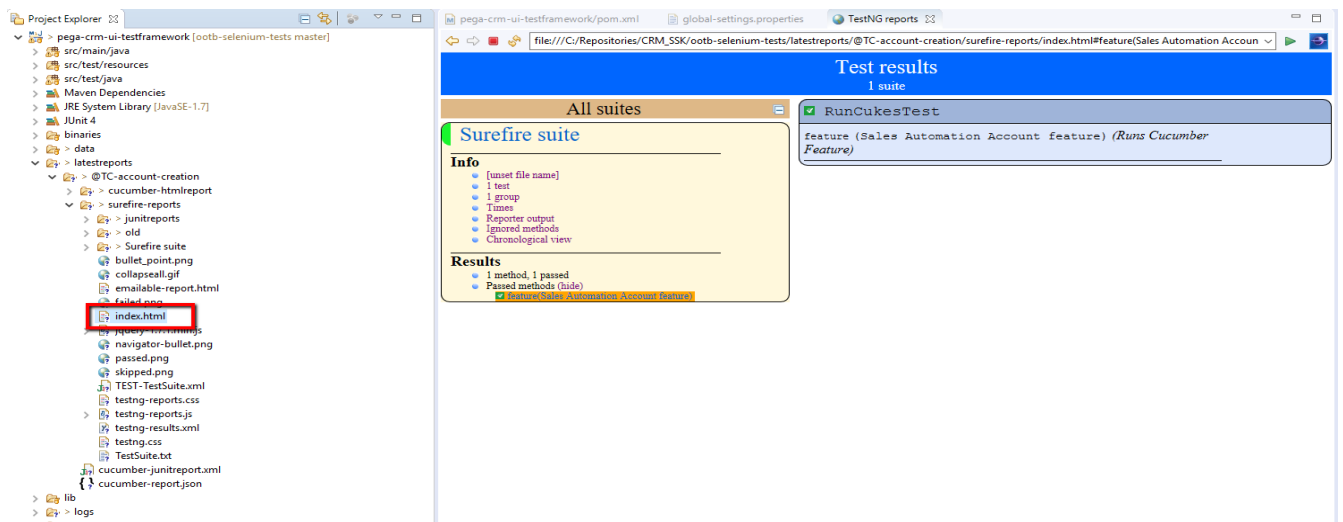
Result Summary

Test Report

In addition to the test failure log displayed in the console window, Eclipse's Maven surefire and Cucumber plugins produces artifacts that highlight test failures



The surefire-reports includes a main report, index.html and an e-mailable report, emailable-report.html



The screenshot displays an IDE interface. On the left, the Project Explorer shows a directory structure for 'pega-crm-ui-testframework'. Under 'latestreports', there is a subdirectory '@TC-account-creation', which contains 'cucumber-htmlreport' and 'surefire-reports'. Inside 'surefire-reports', the file 'emailable-report.html' is highlighted with a red box. On the right, the 'emailable-report.html' file is open, showing a 'Surefire suite' summary table and a 'RunCukesTest#feature' table.

Test	# Passed	# Skipped	# Failed	Time (ms)	Included Groups	Excluded Groups
Surefire suite						
Surefire test	1	0	0	373,573		

Class	Method	Start	Time (ms)
Surefire suite			
Surefire test — passed			
RunCukesTest	feature	1540451498999	373194

Surefire test

RunCukesTest#feature

Parameter #1
Sales Automation Account feature

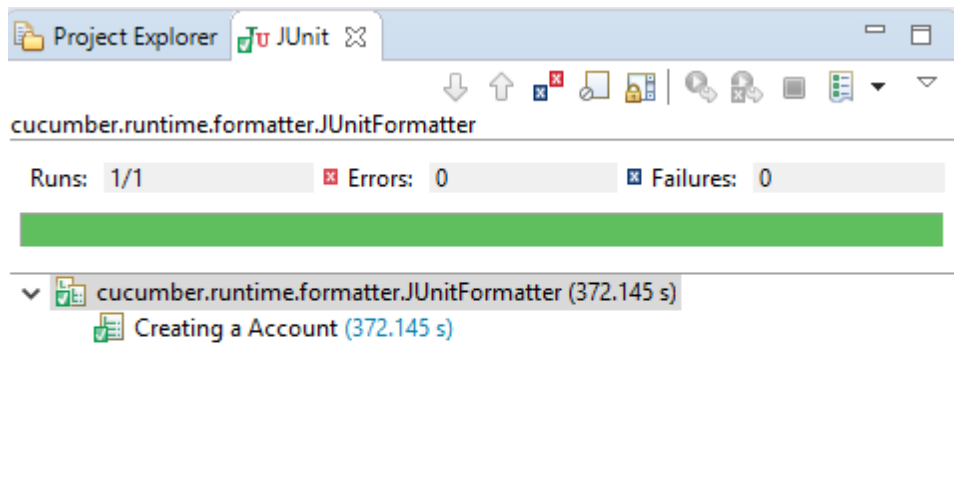
Messages

Browser terminated...
Driver processes killed...

[back to summary](#)

The Cucumber plugin produces a JUnit report

The screenshot shows the Project Explorer of an IDE. The directory structure is similar to the previous image. Under 'latestreports' > '@TC-account-creation' > 'surefire-reports', the file 'cucumber-junitreport.xml' is highlighted with a blue selection bar. A red arrow points to this file. Other files in the same directory include 'cucumber-report.json'.



Note:

- Artifacts produced by Maven surefire and Cucumber plugin are subject to change by as defined by those 3rd party plugins.

Debugging

The project provides the following diagnostic capabilities assist with failure debugging:

Debug Mode

The debug mode enables you to diagnose the problem when a UI test fails.

When the project setting **debug.mode** in **data/global-settings.properties** is set to **true**, this will keep the application & browser open when a test fails. This allows you diagnose the application at the point the test failed.

Screenshot

When a test fails, the framework automatically takes a screenshot at the failure point that can provide insight and helps with defect localization.

Managing Timeouts

Sometimes, a page or UI element does not load, and the test is stuck indefinitely until the test is aborted.

The project setting **global.timeout** in **data/global-settings.properties** allows you to specify the maximum time in seconds the test waits for a page or UI element to load. When this time is exceeded, the test is aborted and marked failed.

You want to set this time to a reasonable value, like 30 seconds. Setting this value high, e.g. minutes, can have an effect on the performance of your tests. For example, if there is a systemic issue in your application and every other UI element is not loading, your tests will wait

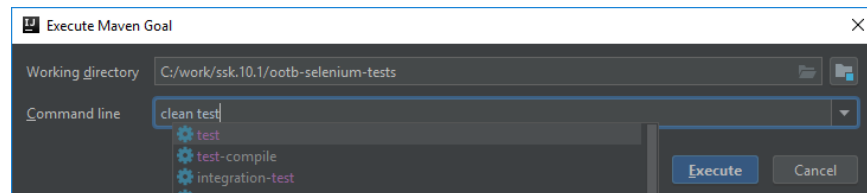
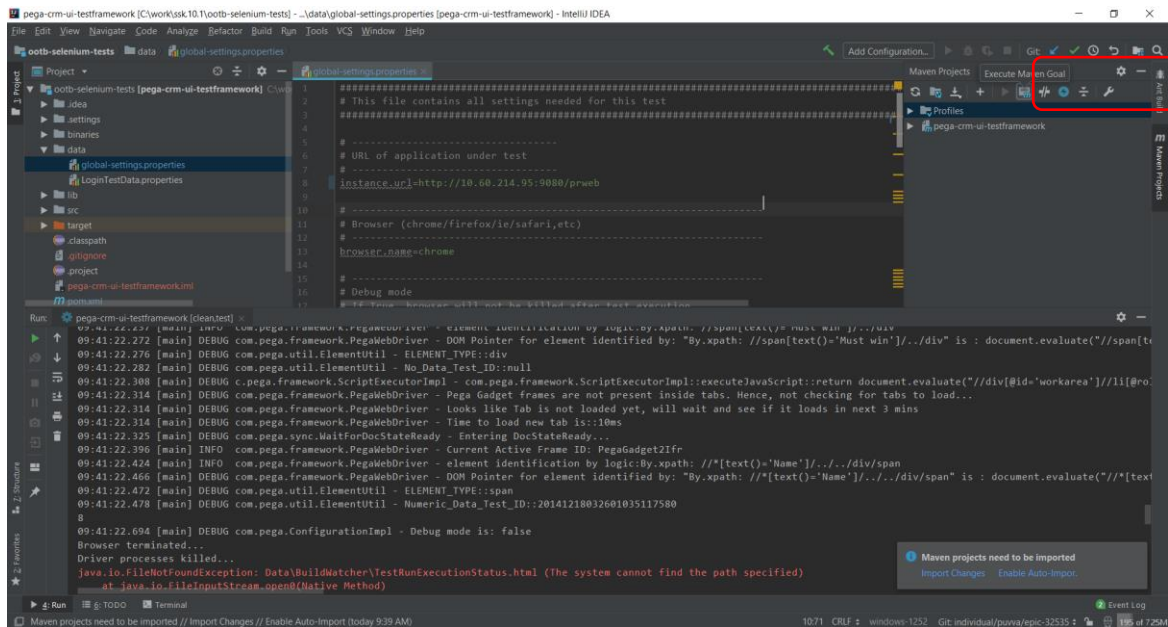
the maximum time before it aborts a test. This wait time adds up when you are running hundreds of tests.

IntelliJ Tips

This section calls out a few aspects related to working with IntelliJ IDE

Running Tests

To trigger test execution the Maven Way, execute the Maven goal as follows:



Related Documentation

- [Running tests in CI/CD pipeline](#)
- [Writing new tests](#)

References

- [Behavior Driven Development with Cucumber](#)