

Project Closure Report

Project Name : Automation with Selenium Java

Batch Name : JATWD19

Project Focus: Automate Web Application End to End

Product: Spice Jet Flight Booking Website.

Reported By: Gowthami Dharmalingam

Automation:

Objective	Consistency,Reliability,Early Defect Detection, Reduced Manual Testing, Script Maintenance.
Deliverables	All Deliverables have been completed(as defined in terms of reference)
Defects	No obvious defects deducted, But there was mis interpretation of fields at many places. Listed below..
Takeaways	Complex xpath handling, Java conditioning and loops, Multi Frame Handling, Exception, Overall utomation Strategy.
Challenges while Automation	Flaky Test, Integration with CI/CD Pipelines

Defects While Automation :

SignIn Functionality – TextBox mis-interpreted.

From To Functionality – Toggle arrow of Departure and Destination gets interrupted frequently, which will result in imprecise Flight Booking (if not noticed).

Highlights:

Additional Tasks:

- Oneway radio Button Default Selected Validation.
- Round TripRadio Button Validation.
- Round TripCalendar Enabled Validation.
- SignIn Functionality Validated by passing all fields:

Workout:

1. Segregated the SignIn field into two part based on the scroll required.
 2. Input passed by using `sendkey.TAB`.
- Logout Functionality.
 - Forgot Password Functionality.
 - Login with Email.
 - Session TimeOut Validation and Automate StartOver the session.

Workout:

1. Navigate to Url.
2. Used `Thread.sleep(760000)`
3. Method `PopUpFluentWait` to wait the popup and element to be selected to start over the session.

Attached necessary files along with this.

ScreenShot of Execution Session Timeout Validation:

The screenshot shows the Eclipse IDE interface with several open windows:

- Test Explorer**: Shows a list of test cases, including "screenShotSpiceJet_tc_009_A_LoginE", "screenShotSpiceJet_tc_009_B_Default", "screenShotSpiceJet_tc_010_ValidateFi", etc.
- testing5.xml**: The XML configuration file for the test suite, containing details like browser="edge", test thread-count=1, and class="spicejettest.TC_015SessionTimeOutSpiceJet".
- Console**: Displays the command-line output of the test execution. It shows the test suite running, failing, and then completing successfully with 1 pass and 0 failures.
- Breakpoints**, **Expressions**, **Git Repositories**, and **Results of running suite**: Other Eclipse toolbars.

```

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "https://testing.org/testng-1.0.dtd">
<suite name="Suite">
<parameter name="browser" value="edge"/>
<listeners>
<listener class-name="spicejetutils.ListenerSpiceJet"/>
</listeners>
<test thread-count="1" name="Test">
<classes>
<class name="spicejettest.TC_015SessionTimeOutSpiceJet"/>
</classes>
</test> <!-- Test -->
</suite> <!-- Suite -->

```

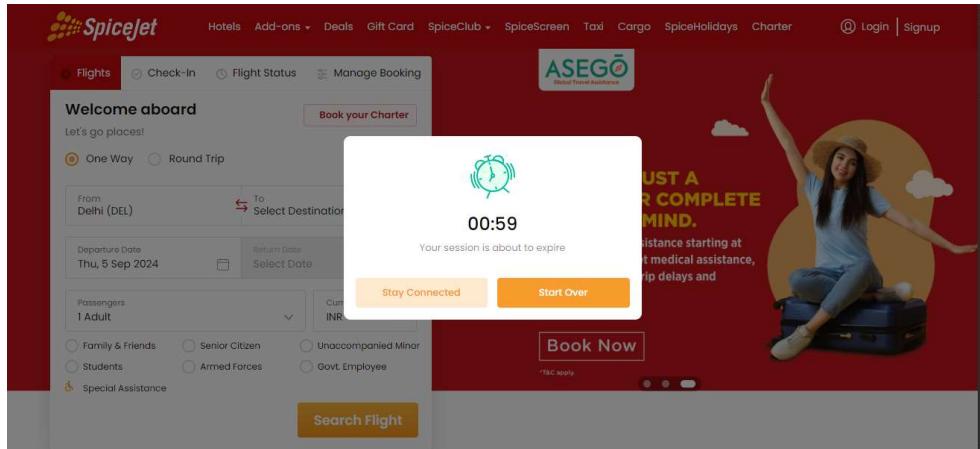
Failure Exception

```

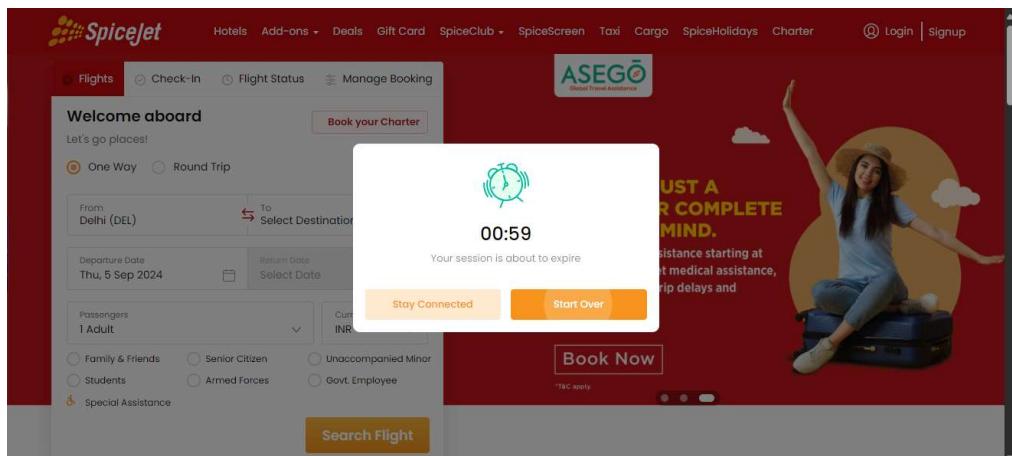
<terminated> spicejetproject_testing5.xml [TestNG] C:\Users\Lishanth\p2\pool\plugins\org.eclipse.testng_1.0.0.v20230921-1130\lib\testng-1.0.jar
at java.net.http/jdk.internal.net.http.HttpClientImpl
$SelectorManager.handleEvent(HttpClientImpl.java:979)
at java.net.http/jdk.internal.net.http.HttpClientImpl
$SelectorManager.lambda$run$3(HttpClientImpl.java:934)
at java.base/java.util.ArrayList.forEach(ArrayList.java:1511)
at java.net.http/jdk.internal.net.http.HttpClientImpl
$SelectorManager.run(HttpClientImpl.java:934)

SpiceJet Automation Completed Successfully
=====
Suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
=====
```

PopupDisplayed:



Popup being clicked:



Following all support documents:

TestNG Execution: SPICEJET

Suite1:

Test results for Suite1:

Test	Status	Time
All Tests	Passed	10/0/0/0 (37.1s)
Test1	Passed	37.1s
spicejettest.TC_003LoginPagePhNoSpiceJet	Passed	2.715s
tc_003_LoginPhNoFunctionalitySpiceJet	Passed	2.715s

Failure Exception:

```
java.net.http.HttpClientImpl$SelectorManager.lambda$run$3(HttpClientImpl.java:934)
at java.base/java.util.ArrayList.forEach(ArrayList.java:1511)
at java.net.http.HttpClientImpl$SelectorManager.run(HttpClientImpl.java:934)
```

Suite2:

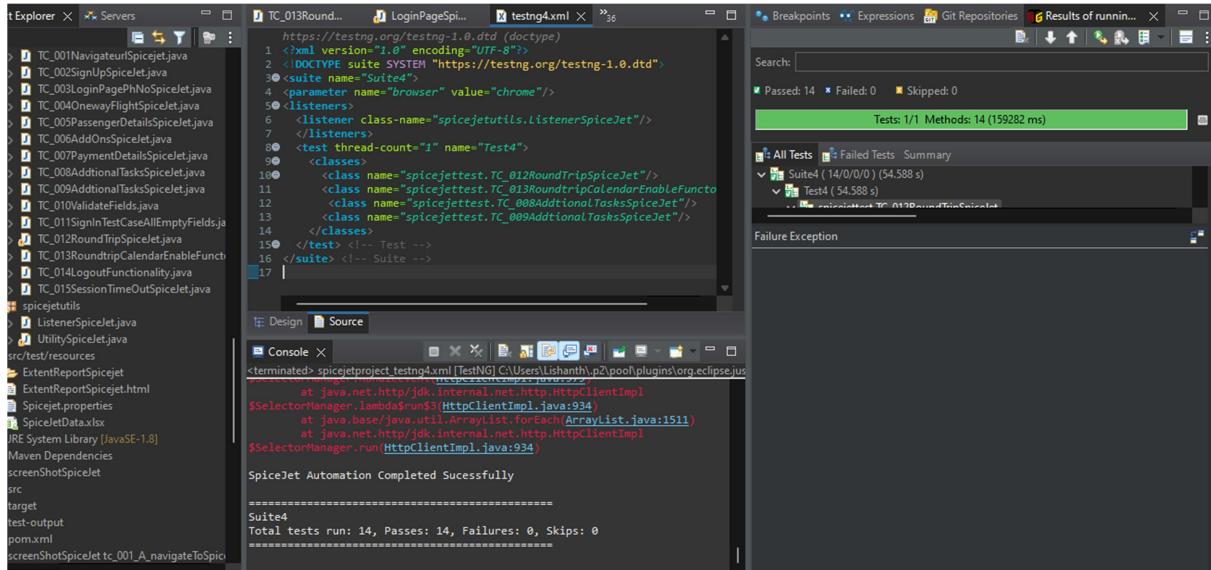
Test results for Suite2:

Test	Status	Time
All Tests	Passed	4/0/0/0 (125.409s)
Test2	Passed	125.409s
spicejettest.TC_007PaymentDetailsSpiceJet	Passed	45.748s
tc_007_PaymentDetailsSpiceJet	Passed	45.748s

Failure Exception:

```
java.net.http.HttpClientImpl$SelectorManager.lambda$run$3(HttpClientImpl.java:934)
at java.base/java.util.ArrayList.forEach(ArrayList.java:1511)
at java.net.http.HttpClientImpl$SelectorManager.run(HttpClientImpl.java:934)
```

Suite 4:



The screenshot shows the Eclipse IDE interface during the execution of Suite 4. The left pane displays the project structure with Java files like TC_001NavigateurSpicejet.java and XML test cases like TC_013RoundTripSpicejet.xml. The center pane shows the XML test code for Suite 4, which includes parameters for browser (chrome) and listeners, and tests for round trip calendar enablement. The right pane displays the test results: 14 passed, 0 failed, and 0 skipped tests, with a total duration of 159282 ms. The console output at the bottom indicates the automation completed successfully.

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "https://testing.org/testng-1.0.dtd">
<@suite name="Suite4">
<parameter name="browser" value="chrome"/>
<listeners>
<@listener class-name="spicejetutils.ListenerSpiceJet"/>
</listeners>
<@test thread-count="1" name="Test4">
<@classes>
<@class name="spicejettest.TC_013RoundTripSpiceJet"/>
<@class name="spicejettest.TC_013RoundTripCalendarEnableFunction"/>
<@class name="spicejettest.TC_008AdditionalTasksSpiceJet"/>
</@classes>
</@test> <!-- Test -->
</@suite> <!-- Suite -->
```

SpiceJet Automation Completed Sucessfully

=====
Suite4
Total tests run: 14, Passes: 14, Failures: 0, Skips: 0
=====

Passed: 14 Failed: 0 Skipped: 0

Tests: 1/1 Methods: 14 (159282 ms)

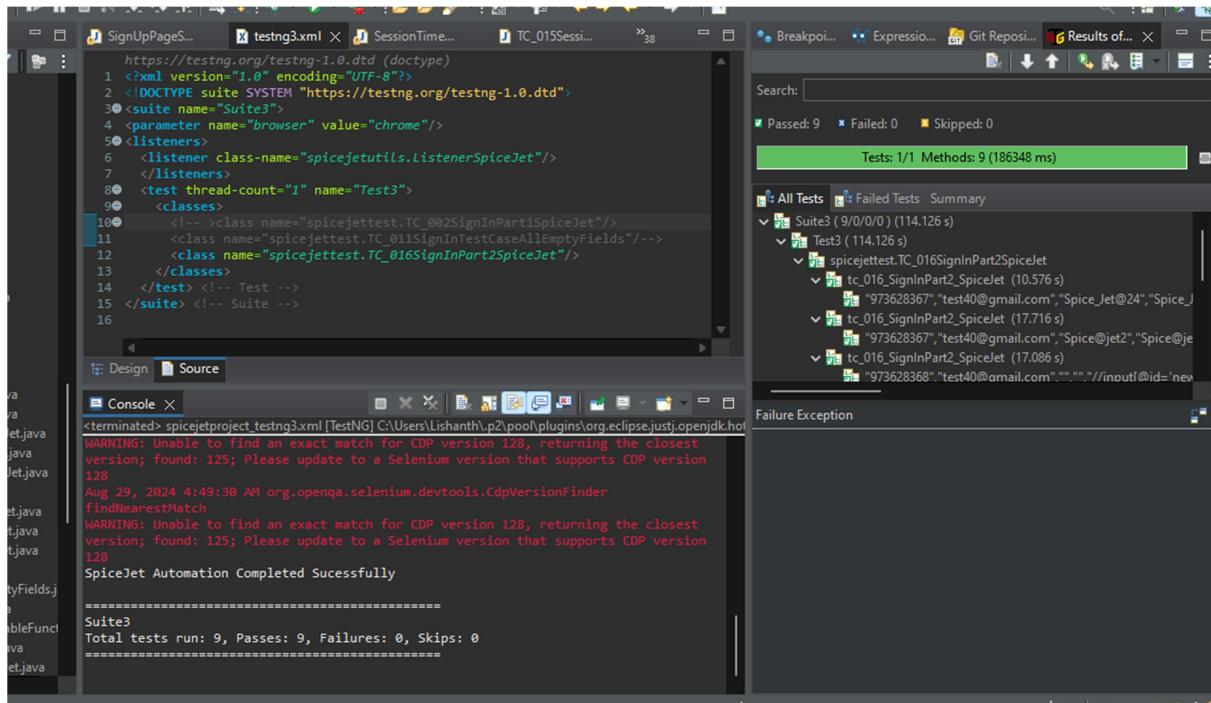
All Tests Failed Tests Summary

Suite4 (14/0/0) (54.588 s)

Test4 (54.588 s)

Failure Exception

Suite3: SignIn Functionality:



The screenshot shows the Eclipse IDE interface during the execution of Suite3. The left pane displays the project structure with Java files like TC_001NavigateurSpicejet.java and XML test cases like TC_015SessionTimeOutSpicejet.xml. The center pane shows the XML test code for Suite3, which includes parameters for browser (chrome) and listeners, and tests for sign-in functionality. The right pane displays the test results: 9 passed, 0 failed, and 0 skipped tests, with a total duration of 186348 ms. The console output at the bottom indicates the automation completed successfully.

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "https://testing.org/testng-1.0.dtd">
<@suite name="Suite3">
<parameter name="browser" value="chrome"/>
<listeners>
<@listener class-name="spicejetutils.ListenerSpiceJet"/>
</listeners>
<@test thread-count="1" name="Test3">
<@classes>
<@class name="spicejettest.TC_002SignInPart1SpiceJet"/>
<@class name="spicejettest.TC_011SignInTestCaseAllEmptyFields"/>-
<@class name="spicejettest.TC_016SignInPart2SpiceJet"/>
</@classes>
</@test> <!-- Test -->
</@suite> <!-- Suite -->
</@suite>
```

WARNING: Unable to find an exact match for CDP version 128, returning the closest version; found: 125; Please update to a Selenium version that supports CDP version 128
Aug 29, 2024 4:49:30 AM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find an exact match for CDP version 128, returning the closest version; found: 125; Please update to a Selenium version that supports CDP version 128
SpiceJet Automation Completed Sucessfully

=====
Suite3
Total tests run: 9, Passes: 9, Failures: 0, Skips: 0
=====

Passed: 9 Failed: 0 Skipped: 0

Tests: 1/1 Methods: 9 (186348 ms)

All Tests Failed Tests Summary

Suite3 (9/0/0) (114.126 s)

Test3 (114.126 s)

spicejettest.TC_016SignInPart2SpiceJet

tc_016_SignInPart2_Spicelet (10.576 s)

"973628367","test40@gmail.com","Spice_Jet@24","Spice_Jet@24"

tc_016_SignInPart2_Spicelet (17.716 s)

"973628367","test40@gmail.com","Spice@jet2","Spice@jet2"

tc_016_SignInPart2_Spicelet (17.086 s)

"973628368","test40@gmail.com","","//input@id='new'

Failure Exception

Screenshot of the Eclipse IDE interface showing the execution of a TestNG test suite named "Suite3".

Left Panel (Code View):

```

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd">
<suite name="suite3">
<parameter name="browser" value="chrome"/>
<listeners>
<listener class-name="spicejetutils.ListenerSpiceJet"/>
</listeners>
<test thread-count="1" name="Test3">
<classes>
<class name="spicejettest.TC_002SignInPart1SpiceJet"/>
<!-- <class name="spicejettest.TC_011SignInTestCaseAllEmptyFields"/>
<-- <class name="spicejettest.TC_016SignInPart2SpiceJet"/>-->
</classes>
</test> <!-- Test -->
</suite> <!-- Suite -->

```

Right Panel (Results View):

- Breakpoints, Expressions, Git Repositories, Results of running suite
- Search: [Search Bar]
- Passed: 4 Failed: 0 Skipped: 0
- Tests: 1/1 Methods: 4 (90368 ms)
- All Tests:
 - Suite3 (4/0/0) (37.506 s)
 - Test3 (37.506 s)
 - tc_002.SignInSpicelet (9.636 s)
 - tc_002.SignInSpicelet (8.224 s)
 - tc_002.SignInSpicelet (10.587 s)
 - Failure Exception

Screenshot of the Eclipse IDE interface showing the execution of a TestNG test suite named "Suite3".

Left Panel (Code View):

```

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd">
<suite name="Suite3">
<parameter name="browser" value="chrome"/>
<listeners>
<listener class-name="spicejetutils.ListenerSpiceJet"/>
</listeners>
<test thread-count="1" name="Test3">
<classes>
<!-- <class name="spicejettest.TC_002SignInPart1SpiceJet"/>
<-- <class name="spicejettest.TC_011SignInTestCaseAllEmptyFields"/>
<-- <class name="spicejettest.TC_016SignInPart2SpiceJet"/>-->
</classes>
</test> <!-- Test -->
</suite> <!-- Suite -->

```

Right Panel (Results View):

- Breakpoints, Expressions, Git Repositories, Results of running suite
- Search: [Search Bar]
- Passed: 1 Failed: 0 Skipped: 0
- Tests: 1/1 Methods: 1 (20922 ms)
- All Tests:
 - Suite3 (1/0/0) (7.202 s)
 - Test3 (7.202 s)
 - spicejettest.TC_011SignInTestCaseAllEmptyFields (7.202 s)
 - tc_011.SignInAllEmptyFieldsSpicelet (7.202 s)
 - //body/div[@id='react-root']/div/div[@class='container']/div[@c
 - Failure Exception

The screenshot shows the Eclipse IDE interface with the following components:

- Java Editor:** Displays the code for `tc_011_SignInAllEmptyFieldsSpiceJet`. The code includes annotations like `@Test(dataProvider = "getdata")` and `softassert(actMsg, expMsg);`.
- Test Results View:** Shows the results of the run. It indicates 1 Passed, 0 Failed, and 0 Skipped tests. The summary shows 1 method executed in 36876 ms.
- Console View:** Displays the command-line output of the test execution. It shows the test suite name, the number of tests run, failures, and skips, followed by a success message.

```

17     testDescription = "SignUp to SpiceJet Website";
18     testCategory = "Smoke";
19     testAuthor = "Gowthami Dharmalingam";
20     sheetName="SignInEmptyFields";
21   }
22
23@Test(dataProvider = "getdata")
24 public void tc_011_SignInAllEmptyFieldsSpiceJet(String textpath, String
25   HomePageSpiceJet hp= new HomePageSpiceJet(driver);
26   hp.gotoSignUp();
27   SignUpPageSpiceJet sp = new SignUpPageSpiceJet(driver);
28   String actMsg = sp.SignInFunctionalityAllEmptyFields(textpath);
29   softassert(actMsg, expMsg);
30   if(actMsg.equalsIgnoreCase(expMsg)) {
31     screenShot("Validating SignUp Functionality With all Empty
32   }else {
33     screenShot("Validating SignUp Functionality With all Empty
34   }

<terminated> TC_011SignInTestCaseAllEmptyFields.tc_011_SignInAllEmptyFieldsSpiceJet [TestNG] C:\Users\Li
an
      to proceed)
=====
Default test
Tests run: 1, Failures: 0, Skips: 0
=====

SpiceJet Automation Completed Sucessfully
=====
Default suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
=====

  
```

Jenkins Configuration:

The Jenkins configuration page for the 'SpiceJet' job is shown in the General tab. The configuration includes:

- Description:** Automate Spice Jet Web Application End to End. Automate with an interval of 24 hrs.
- Discard old builds:** Enabled (checkbox checked).
- GitHub project:** Enabled (checkbox checked).
- This project is parameterized:** Enabled (checkbox checked).
- Throttle builds:** Enabled (checkbox checked).
- Execute concurrent builds if necessary:** Enabled (checkbox checked).

At the bottom, there are 'Save' and 'Apply' buttons.

Source Code Management

None

Git [?](#)

Repositories [?](#)

Repository URL [?](#)

`https://github.com/Gowthamidharma/Spice_Jet-24.git`



Credentials [?](#)

- none -



+ Add ▾

Advanced ▾

Branches to build [?](#)

Branch Specifier (blank for 'any') [?](#)

`*/master`



Add Branch

Repository browser [?](#)

(Auto)



Additional Behaviours

Add ▾

Build Triggers

Build whenever a SNAPSHOT dependency is built [?](#)

Schedule build when some upstream has no successful builds [?](#)

Trigger builds remotely (e.g., from scripts) [?](#)

Build after other projects are built [?](#)

Build periodically [?](#)

Schedule [?](#)

`30 09 * * *`

⚠ Spread load evenly by using 'H 09 * * *' rather than '30 09 * * *'

Would last have run at Thursday, 29 August 2024 at 09:30:53 Gulf Standard Time; would next run at Friday, 30 August 2024 at 09:30:53 Gulf Standard Time.

Pre Steps

Add pre-build step ▾

Build

Root POM ?

pom.xml

Goals and options ?

test

Advanced ▾

SpiceJet > #1 > Console Output

```
Please refer to dump files (if any exist) [date].dump, [date]-jvmRun[N].dump and [date].dumpstream.  
[JENKINS] Recording test results  
[INFO] -----  
[INFO] BUILD SUCCESS  
[INFO] -----  
[INFO] Total time: 19:31 min  
[INFO] Finished at: 2024-08-29T10:51:20+04:00  
[INFO] -----  
Waiting for Jenkins to finish collecting data  
[JENKINS] Archiving C:\Users\Lishanth\jenkins\workspace\SpiceJet\pom.xml to org.guvi/spicejetproject/0.0.1-SNAPSHOT/spicejetproject-0.0.1-SNAPSHOT.pom  
Sending e-mails to: gowthamidharma@gmail.com  
ERROR: Couldn't connect to host, port: localhost, 25; timeout 60000  
org.eclipse.angus.mail.util.MailConnectException: Couldn't connect to host, port: localhost, 25; timeout 60000;  
nested exception is:  
    java.net.ConnectException: Connection refused: connect  
    at org.eclipse.angus.mail.smtp.SMTPTransport.openServer(SMTPTransport.java:2243)  
    at org.eclipse.angus.mail.smtp.SMTPTransport.protocolConnect(SMTPTransport.java:729)  
    at jakarta.mail.Service.connect(Service.java:345)  
    at jakarta.mail.Service.connect(Service.java:225)  
    at jakarta.mail.Service.connect(Service.java:174)  
    at jakarta.mail.Transport.send0(Transport.java:232)  
    at jakarta.mail.Transport.send(Transport.java:102)  
    at hudson.tasks.MailSender.run(MailSender.java:131)  
    at hudson.tasks.MailSender.execute(MailSender.java:106)  
    at hudson.maven.reporters.MavenMailer.end(MavenMailer.java:77)
```