## **Automation Implementation document**

### **Execution:**

Github Url: https://github.com/qa2pavan/Digicert\_project

- 1. Open the above public GitHub url and copy the Digicert\_project clone url
- 2. Create a folder in your machine and do git bash clone the above project
- **3.** Open eclipse and import Digicert\_project into your workspace, refresh the project incase if any errors
- 4. Navigate to testNG.xml file and run as TestNG suite

## Implementation:

As shown below it is Maven project with below folder structure

#### Main:

generatex509Cert.java class generates new cert

validate\_x509Cert.java reads the certificate and also having few action methods to validate certificate

### Test:

CertificateDataDriverTest -3 Testcases- Implementing data-driven testing using TestNG's @DataProvider to test multiple certificates

CertificateStructureValidationTest - 6 Testcases -

Validates: Common Name (CN)

Issuer

Expiration Date (not expired)

Signature Algorithm

CertificateNegativeTest –4 Testcases- validate few negative test cases

Certificates to test are stores under Certificates folder

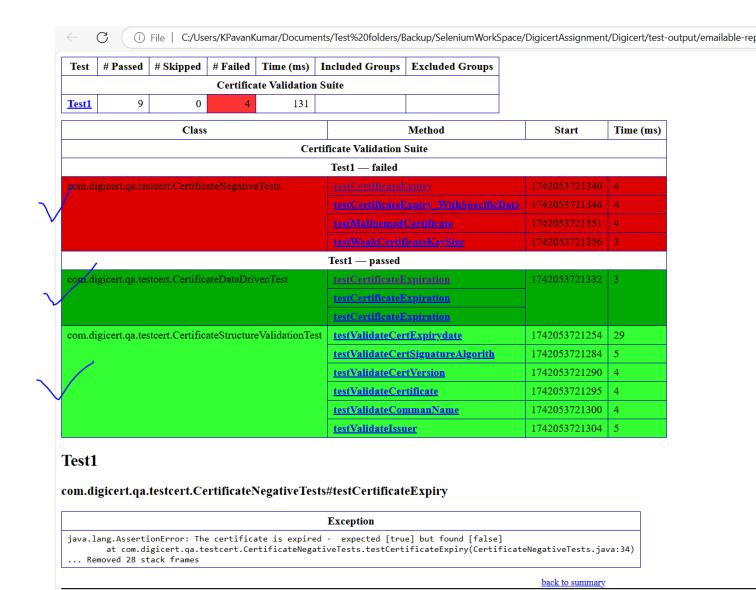
 Digicert [Digicert\_project master] √ 

@ src/main/java > 4 generateX509Cert.java > 🛂 validate\_X509Cert.java √ 

## src/test/java > 🛺 CertificateDataDrivenTest.java > CertificateNegativeTests.java > 🚜 CertificateStructureValidationTest.java ⇒ JRE System Library [JavaSE-1.8] Maven Dependencies > 🗁 Certificates > 🛅 src > 🔄 test-output pom.xml TestNG.xml

# **Reports:**

The below TestNG report shows there are total 13 test cases out of which 4 negative testcases. Intentionally failing the negative testcases which validates malformed and expired certificate.



Note: Due to time constraint this project is limited to validate the above scenarios, I can further enhance optimize this project if I get some more time.

 $com. digicert. qa. testcert. Certificate Negative Tests \# test Certificate Expiry\_With Specific Date$