

## Scope

The scope has been completed by creating 2 main feature descriptions including 3 scenarios:

- Login using UI (1valid 2 Invalid)
- Note creation -> verification and deletion
- Requesting home page using REST HTTP calls (1 valid ) (REST API Testing framework)

The above can be considered as a proof of concept which can be used to scale QA Automated tests within VideoSlot addressing tests functional and non functional for Web UI and API.

## Requirements to run the test project:

- OS: Windows 10
- IDE: IntelliJ
- Chrome: 97.0

Plugins:

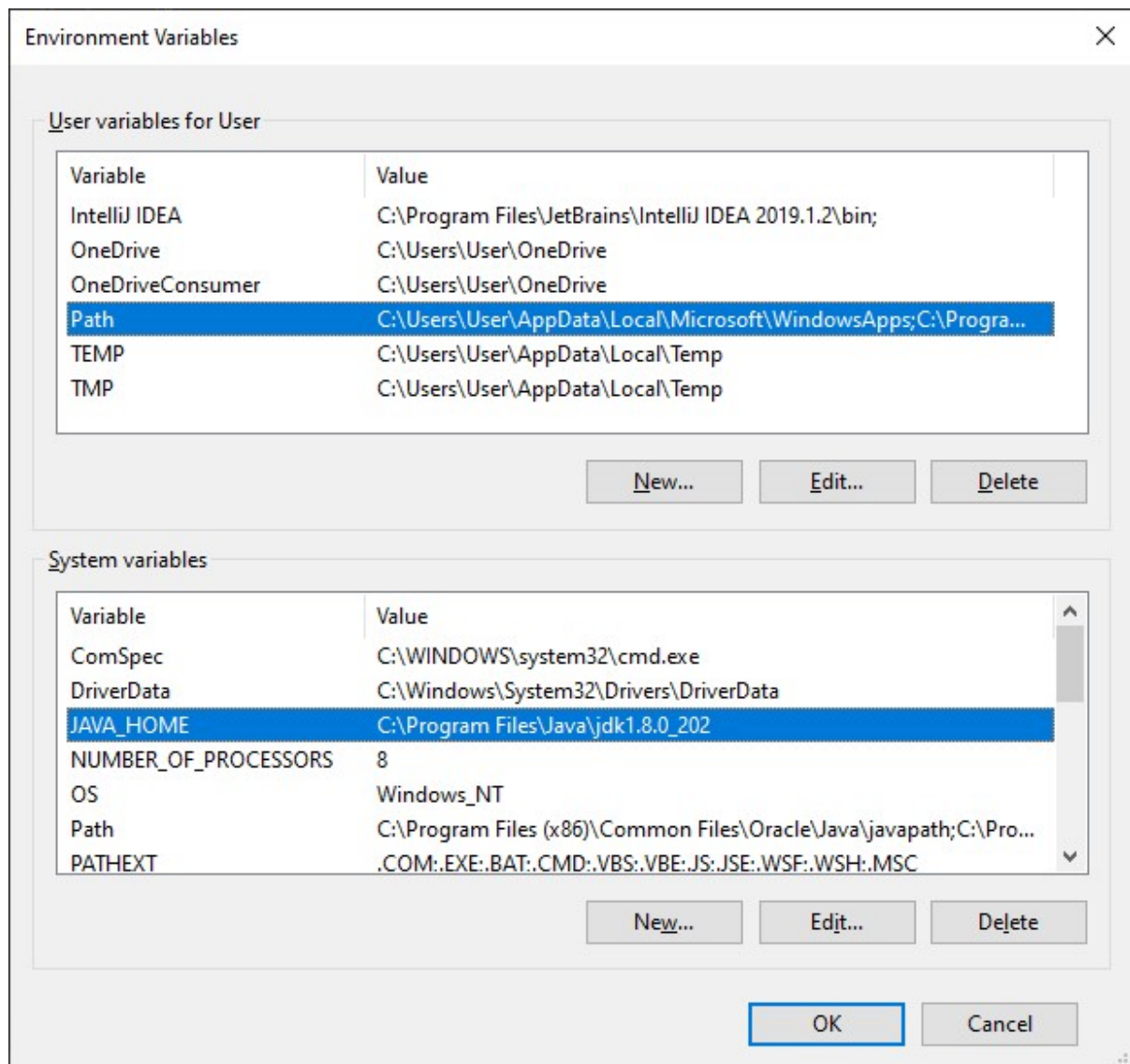
- Cucumber for Java
- Gherkin

Technology used:

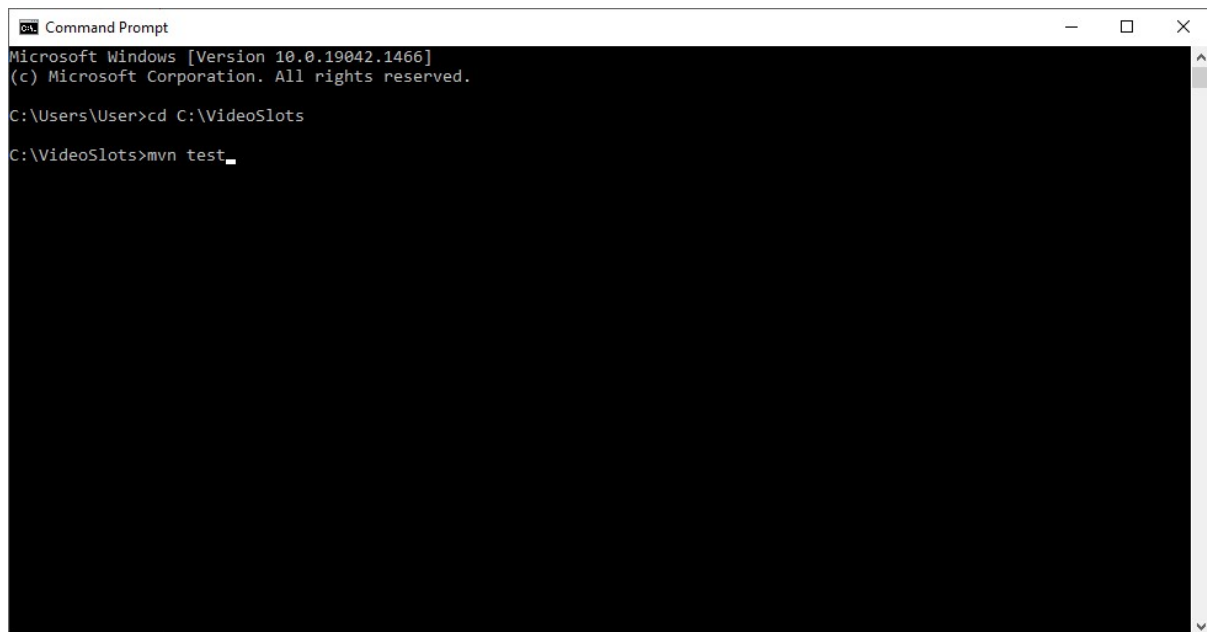
- Cucumber for BDD Definitions using Gherkin
- Selenium for web automation (only chrome for now)
- Spring boot (web and context) for API Testing and Context loading (for selenium driver and URL configuration)

## To run

Install MAVEN and ensure bin directory is added in the path directory and also one needs to add JAVA\_HOME with the JDK installation directory



To run all tests using CLI using command shell change directory to the project directory and run `>mvn test`

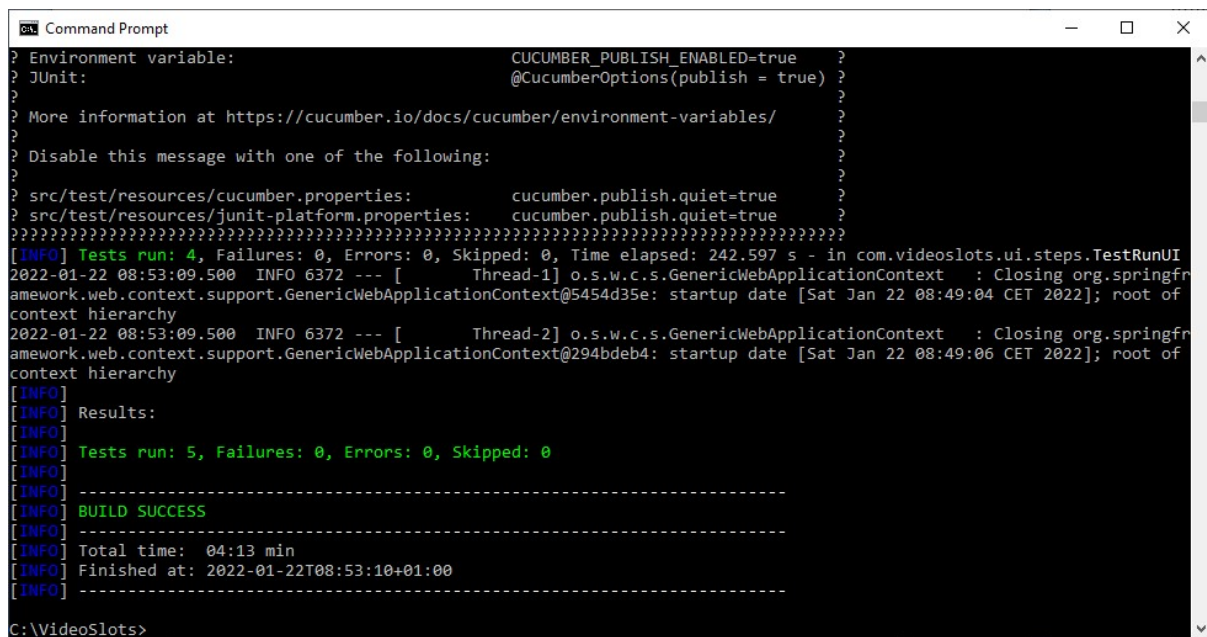


```
Command Prompt
Microsoft Windows [Version 10.0.19042.1466]
(c) Microsoft Corporation. All rights reserved.

C:\Users\User>cd C:\VideoSlots

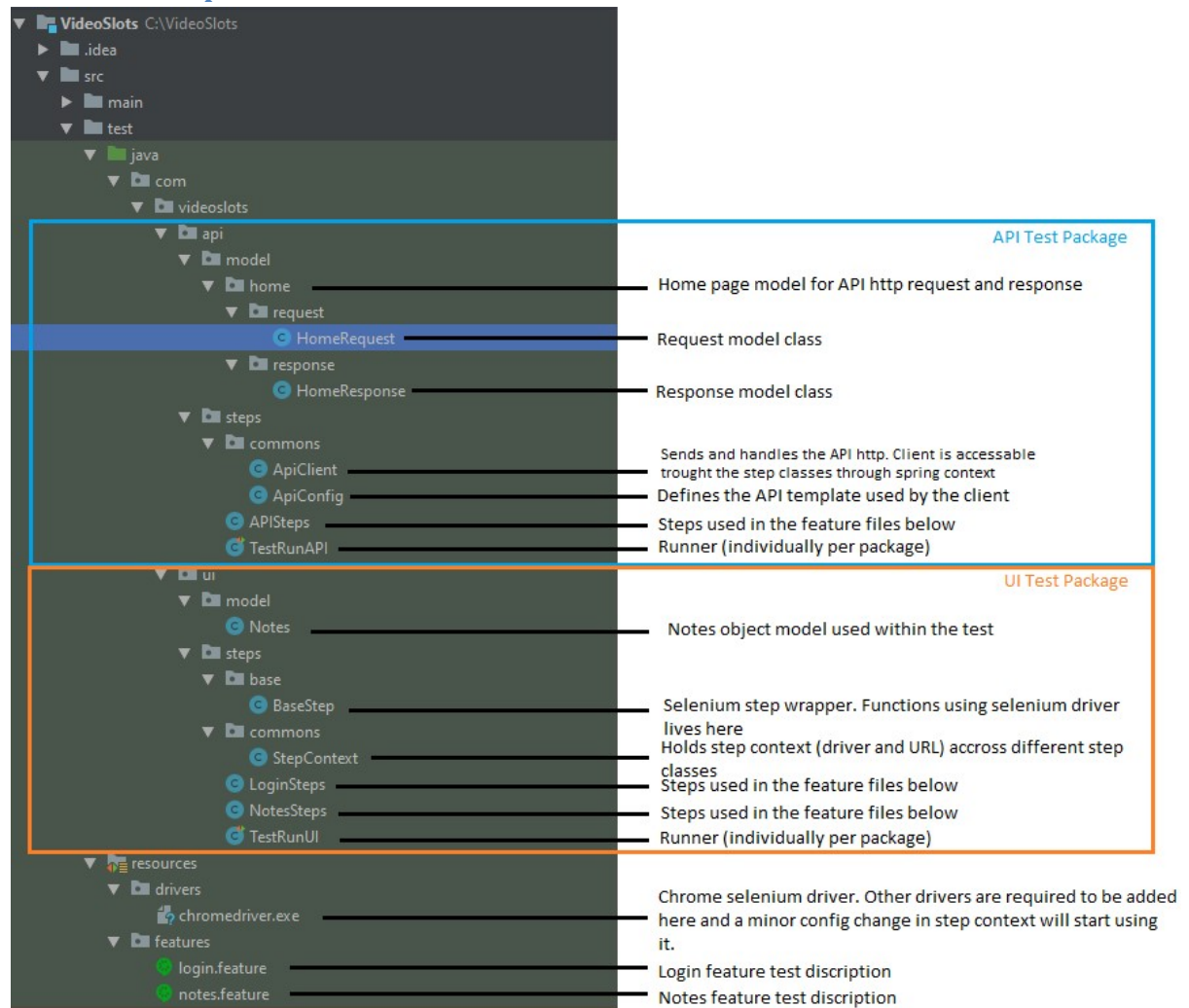
C:\VideoSlots>mvn test_
```

The below is expected



```
Command Prompt
? Environment variable: CUCUMBER_PUBLISH_ENABLED=true ?
? JUnit: @CucumberOptions(publish = true) ?
?
? More information at https://cucumber.io/docs/cucumber/environment-variables/ ?
?
? Disable this message with one of the following: ?
?
? src/test/resources/cucumber.properties: cucumber.publish.quiet=true ?
? src/test/resources/junit-platform.properties: cucumber.publish.quiet=true ?
?
[INFO] Tests run: 4, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 242.597 s - in com.videoslots.ui.steps.TestRunUI
2022-01-22 08:53:09.500 INFO 6372 --- [ Thread-1] o.s.w.c.s.GenericWebApplicationContext : Closing org.springframework
amework.web.context.support.GenericWebApplicationContext@5454d35e: startup date [Sat Jan 22 08:49:04 CET 2022]; root of
context hierarchy
2022-01-22 08:53:09.500 INFO 6372 --- [ Thread-2] o.s.w.c.s.GenericWebApplicationContext : Closing org.springframework
amework.web.context.support.GenericWebApplicationContext@294bdeb4: startup date [Sat Jan 22 08:49:06 CET 2022]; root of
context hierarchy
[INFO] Results:
[INFO] Tests run: 5, Failures: 0, Errors: 0, Skipped: 0
[INFO] BUILD SUCCESS
[INFO] Total time: 04:13 min
[INFO] Finished at: 2022-01-22T08:53:10+01:00
[INFO]
C:\VideoSlots>
```

### Solution description



#### **Further improvements:**

- Multiple web drivers including Firefox and IE
- Resizing Window size to test mobile accessibility
- Multi-Threading for parallel testing for UI and API flows.
- Reduce testing time
- Test result reporting which will be included in CI/CD pipeline
- Pickle report for auto documentation of test scenario