# **AutoSQUARE** - "Automating the Automation"

Ever wondered why automation is part product/software testing process? Speed,

Efficiency, Accuracy, Cross-Browser testing or Coverage! Right?

But what about the challenges, complexity and learning curve that hits when it comes to automation?

And even after that are you sure your automation suite is complete, consistent and reliable?

Are you confident about the automation logics written? Are you ready to give your valuable time to scratch your mind in writing redundant steps again??

Gone are the early and blooming days of automation testing and what's the new cool now is "Automating the Automation".

And here I am with the exact required solution I believe the industry was hoping for – "AutoSQUARE", a software which will speed-up your automation scripting.

Firstly, let's get ourselves aware of what are the challenges in Automation testing:

- As the people belonging to the Selenium world might know what POM is, and how it's needed to create POM (Page Object Model) manually or by Selenium IDE. But Selenium IDE and many other recording tools providing export only create POM not factory methods for POM. This task is error- prone and time-consuming. For those who don't know POM, just imagine that in UI automation testing against each UI page in an application there is the corresponding page class that contains information of the fields of the page. [Selenium Ide is deprecated, and newest Firefox no longer support ide]
- Most of the time this custom-made architecture does not comply with the standard and therefore making resulting test suite obviously not reliable.
- Then comes the most "maneuvering" task of creating reports, and I bet this task does require minimal expertise to generate efficient reports.
- Internationalization!! Oh right, have you thought of what it would be like, to build your test suite that support's test case data in the different language's for internationalization testing. It's painful and time-consuming.
- Then you meet the challenge of parallel and cross-browser testing. The features and support of something may be present in browser x but may not be present in browser y and the head storming is not worth your time.
- Dockerization, the CI and CD support.
- Grid environment with parallel testing

Now let's talk about the solution, how exactly AutoSQUARE would be solving these problems.

**AutoSQUARE** is made up of different modules which provide you with the best quality code; let's explore them one by one.

#### AutoSQUARE POM Creator

This is a custom build POM creator which has the capability to generate POM for recorded events with factory methods. Yes, it will create factory methods too, which will reduce your development time by 10%. – 15%.

## AutoSQUARE Data Factory

Data Factory module deals with creating test data for you. Yes, it can create test data as well and that too in six languages (English, German, Spanish, French, Japanese, and Russian). It creates meaningful test data for regression testing.

#### AutoSQUARE Core

This module serves the actual purpose; it brings all the services as a bundle and serves your needs end to end. It will convert your recorded test case into actual selenium code, it completes the runnable maven selenium project with TestNG, Extent Report, etc.

Let's talk about how we typically create a selenium script

- We study the page and create POM (sometimes Selenium IDE might help here)
- Create factory methods for POM
- Create a new maven project and add selenium dependencies and earlier created POM classes to it.
- Create an Excel sheet which contains test data, write Data-Providers and plug data provider to test cases.
- Create Reports

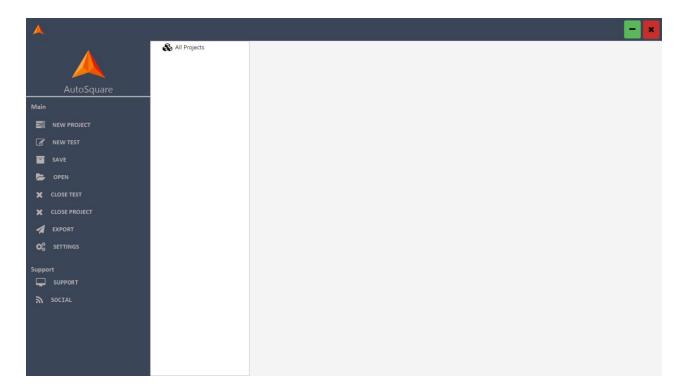
But what if I tell you, "AutoSQUARE" will do all these steps for you in a minute? Yes, that's true.

AutoSQUARE will do all these steps for you in a minute!

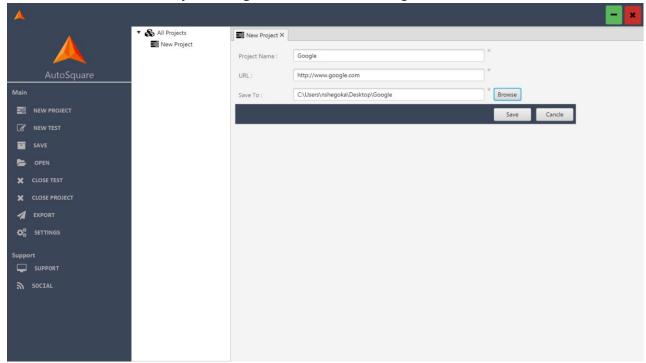
I would be happy to take you on an interesting ride of AutoSQUARE.

Here is how it is done.

1. Open AutoSQUARE (Ex: Google [we will create an automation script for google.com fordemo])



2. Click on New Project (Image Search Test on Google.com)



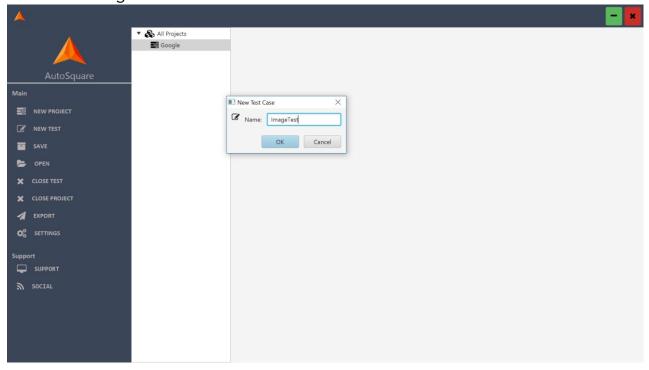
Provide new project details as below:

Project Name: Google

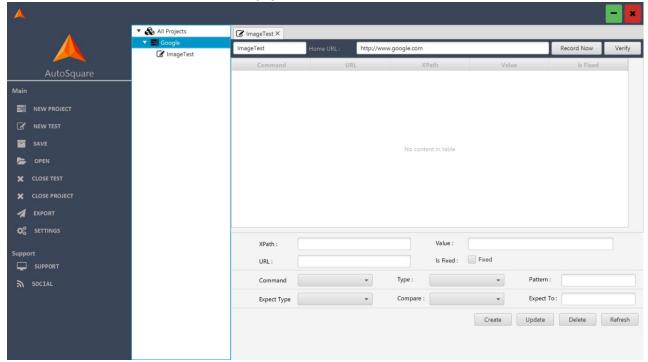
URL: <a href="http://www.google.com">http://www.google.com</a>

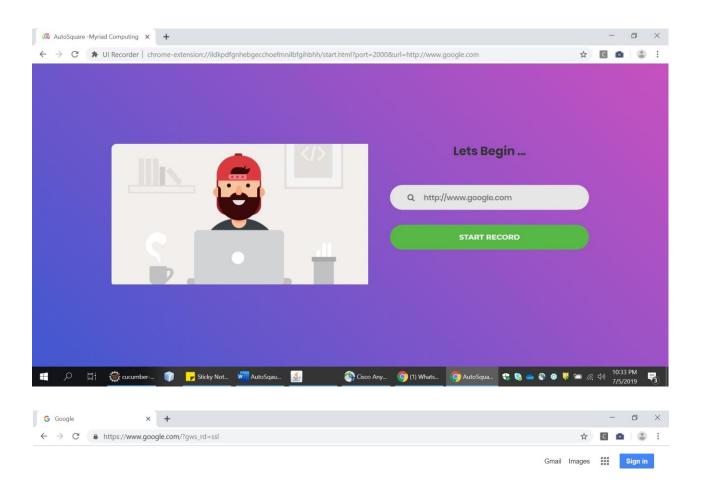
Save To: Location to save this project

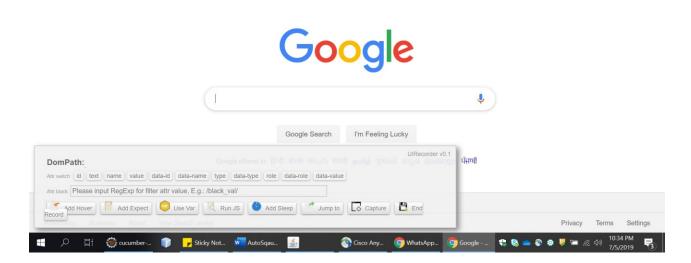
3. Now Click on New Test to create an actual test case and Enter the value as "ImageTest"

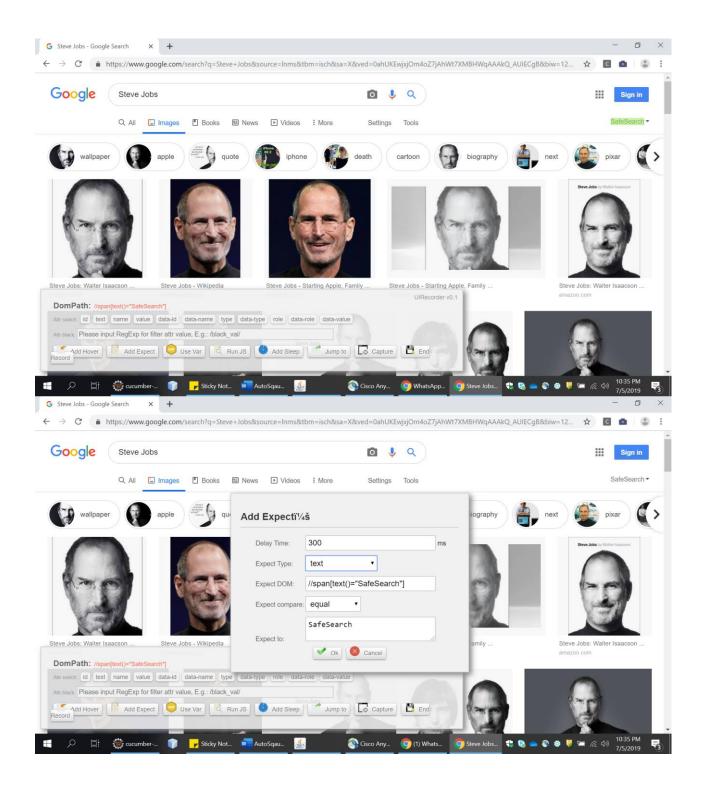


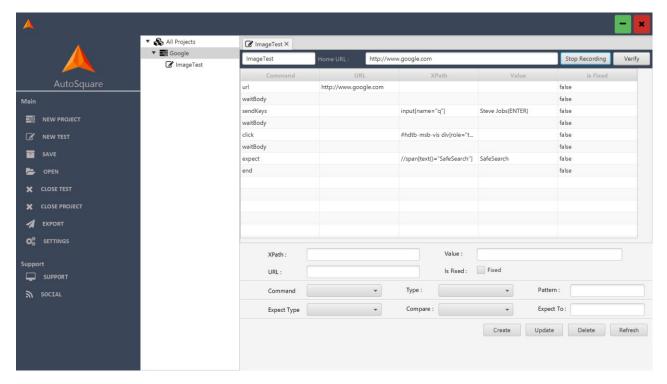
On click of OK; it will create an empty test case as below:





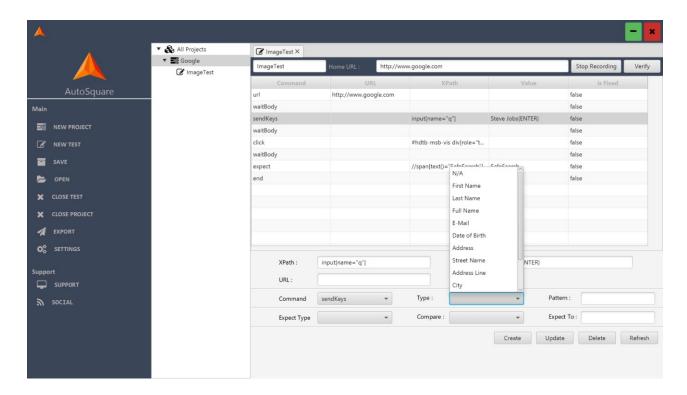




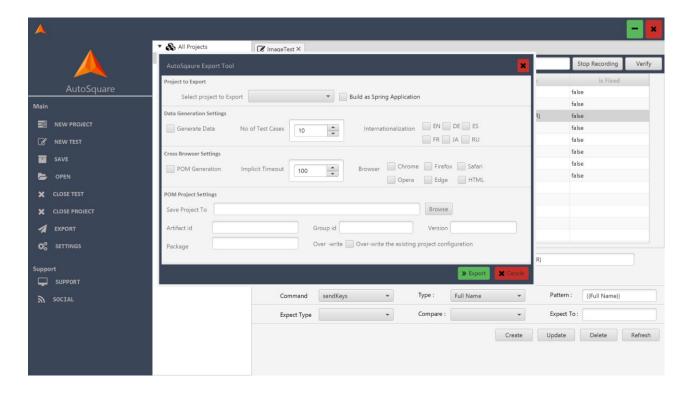


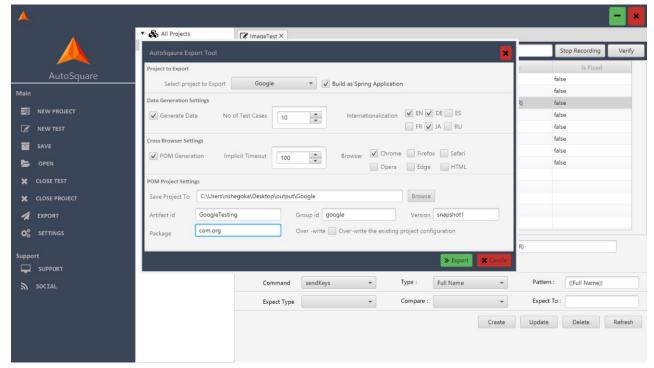
Once you are done with recording test case click on the STOP button.

• Select the field you want to edit; like provide the type of the field which will be used to create meaningful test case data for you.



Now you are ready to convert your testcase into actual Selenium script. Select the project and click Export to Selenium option





Just select the configuration you want for your project and you are good to go!

### Test Data Generation:

- 1. Generate (Checkbox) will ensure creating test cases for you.
- 2. The number of test cases defines how many test cases it should create.
- 3. Internationalization defines test case should be in which language; EN is the default.

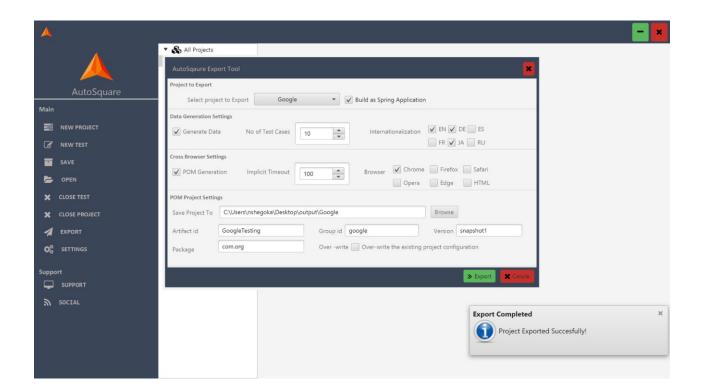
## **Cross-Browser Settings:**

- 1. Cross Browsers checkboxes will ensure to write the configuration for you which will run test cases in multiple browsers.
- 2. Implicit Timeout: it will set implicit timeout property in configuration.

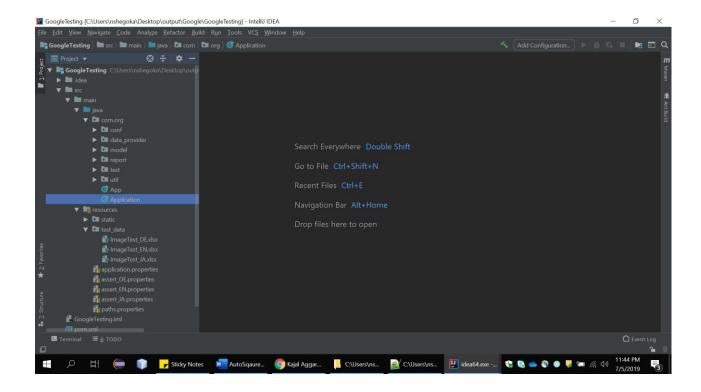
# **Project Export Settings**

- 1. Save the project to: it will let you browse where to store the generated project.
- 2. Artifact ID, Group ID, and Version: as AutoSQUARE generate maven project we need to provide maven details
- 3. Package: we need to provide the package path where POM classes will be stored.
- 4. Overwrite: in the case already project exists on given location it will overwrite the existing project.

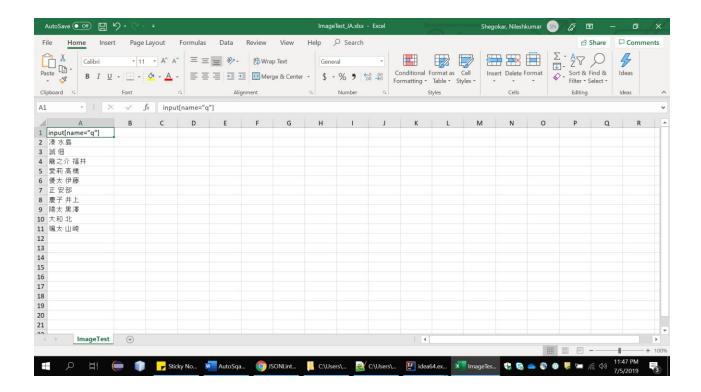
Click on EXPORT; once export completed it will show notification

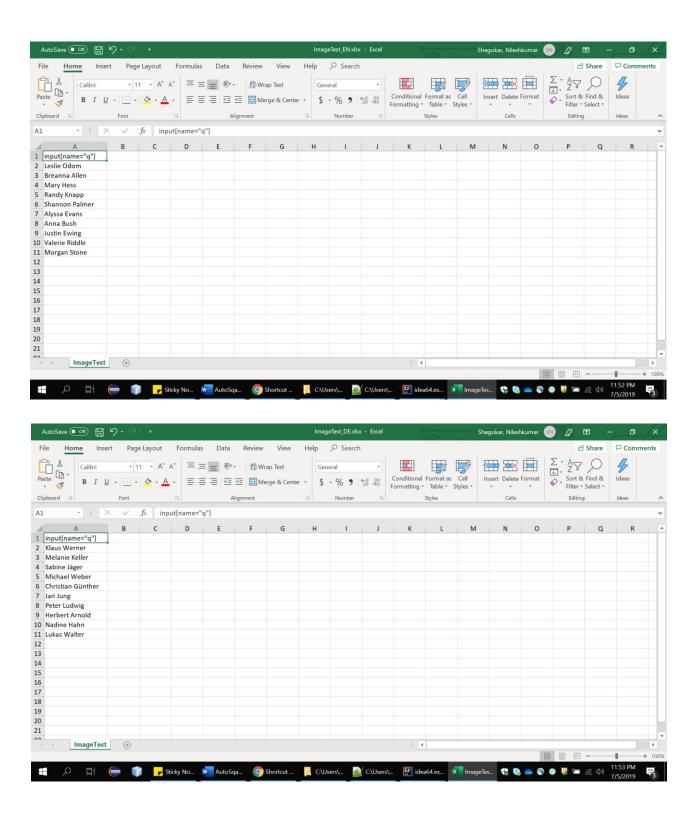


Importthis to any of your favorite IDE as a maven project. Let us see what exactly AutoSQUARE has created for you:



Let'scheckwhatwehaveinside excel fileasitmusthaveourtest data; it has randomly generated the testing data (in the different languages, as requested)





### Let's run the code now:

Starting ChromeDriver 2.38.551601 (edb21f07fc70e9027c746edd3201443e011a61ed) onport 34557 Only local connections are allowed.

Jul 16, 2018 4:18:53 PM

org.openqa.selenium.remote.ProtocolHandshake createSession INFO:

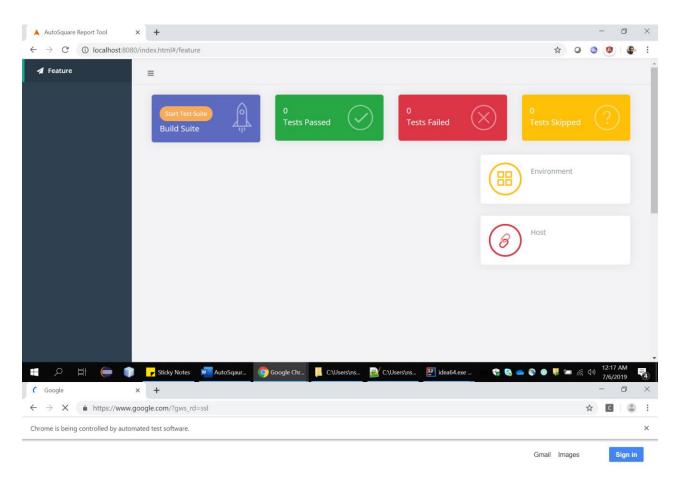
**Detected dialect: OSS** 

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### **Default Suite**

Total tests run: 10, Failures: 0, Skips: 0

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Google offered in: हिन्दी बाश्ना తెలుగు मराठी தமிழ் ગુજરાતી ಕನ್ನಡ മലയാളം पंनाघी



