AutoSquare Automation

A Web Automation Regression Testing (/BDD) Tool

MyriadComputing.com

Introduction

Nileshkumar Shegokar

Total 11 years of experience in IT services and Product Development with expertise in IoT, Cloud, Dev Ops, Cyber Security, Automation Testing and Java Technology stack. Been working with companies like Diaspark, Persistent Systems, Hitachi Consulting & Capgemini.

Java Sun microsystems CERTIFIED Programmer

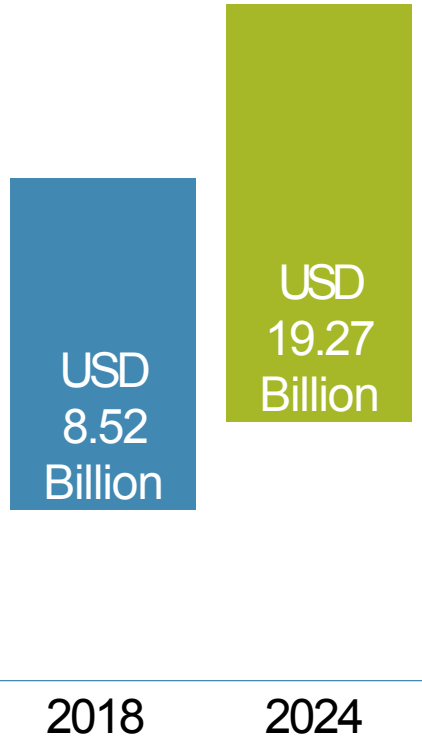
Java Sun microsystems CERTIFIED Mobile Application Developer

aws certified Solutions Architect - Associate

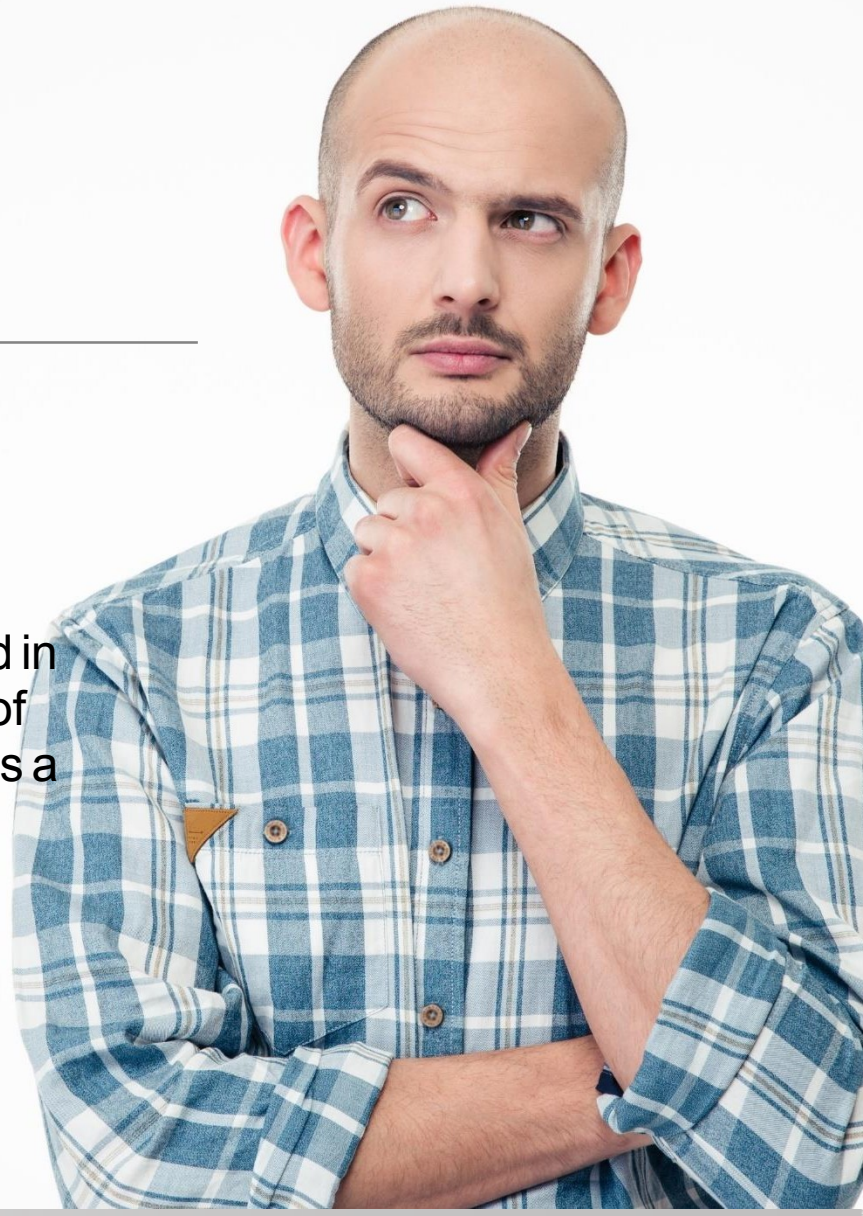
Testing Market Growth

Growth expected from 2018-2024

Compound Annual Growth Rate (CAGR) of 17.7%



- The Automation Industry is expecting growth of 19.27 billion by 2024
- The market is growing in APAC region
- BDD is a new trend in all types of testing, it's a future



Source:https://www.globenewswire.com/news-release/2018/05/11/1500942/0/en/Global-19-Billion-Automation-Testing-Market-2018-2023-Increasing-Adoption-of-the-Devops-Methodology.html

Challenges with Software Testing

Delivery Time

As usually build deliveries get delayed in development process, the timely QA builds are always a challenge, Sprint -1 QA build might help but still the deliveries are critical for bigger deliverables

Quality Assurance

Quality Assurance is the first feature the Automation testing is meant for, but it usually get compromised due to timeline

Hidden Costs

Continue change in technology always bring cost in terms of hiring new talent, giving trainings to existing resources and sometime it even impact in terms of loss of business.

Development Process Bandwidth

65%

- Selenium Script writing
- BDD Feature writing
- Unit and Integration testing
- Report Generation

10%

- Identifying business requirement
- Spring Planning
- Scenario Identification

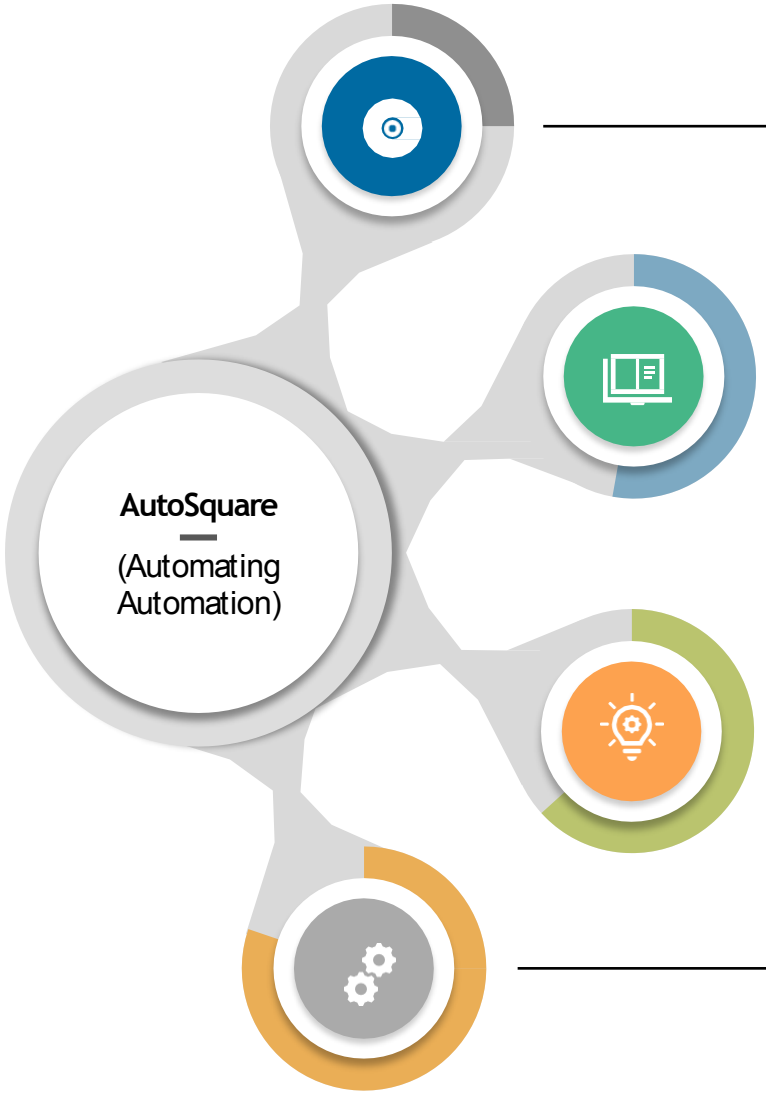
15%

- Dev-Ops pipeline setup
- Cloud Enablement

10%

- Reporting
- Execution

Features



Test Case Recorder
AutoSquare provide multiple ways to define test case flow, most efficient one is to record the test case by lively walkthrough the test case, or user can create a series of events manually to define the test case flow

AutoSquare Data Factory
AutoSquare Data Factory module support internationalization testing by providing customized framework to support testing for different languages from same suite; along with test case data generation in six international languages (English, German, Spanish, French, Japanese, and Russian).

AutoSquare Template Engine
AutoSquare template engine analyzes the events recorded and convert them to actual code; it best cares of modularity, reusability and flexibility of the project framework.

Customized Configuration
AutoSquare provide different configuration pre-configured for cross browser testing, Internationalization testing, BDD testing, Spring Boot based API triggered test cases executions.

New Process Cycle

01
- Record test cases using AutoSquare tool
- Create event manually (if required)
- Configure data generation streams

02
- Setup parameters for Maven project
- Define Project configuration
- Setup Internationalization for data generation
- Setup cross browser script and other configuration

03
- Deploy code on local environment
- Dockerize the code
- Deploy in cloud
- Test through Selenium GRID

The New Process

Record Test Case
Record multiple test case with ease

Configure
Configure required project configuration

Export Project
Export project to generate Automation scripts

Build
Build Maven project using any build tool

Dockerize / Cloudify
Dockerize the code, deploy over local/cloud, run with Selenium GRID

Execute
Run test suite and get reports.

The build process may vary based on configuration requested during the project configuration step, as the code is ready to deploy; It ensures to bring your code deployment 80-90% faster than usual manual script writing approach.

THANK YOU