# INTRODUCTION

At Thoughtstudios Limted, we work with organisations ranging from start-ups to Medium/Large Organisations to develop and release quality software products with quicker 'time-to-market' through the adoption of good practices in areas such as Testing and DevOps. Our consultants have extensive experience working in a number of domains including Media, E-Commerce, Finance and Government Departments.

# SERVICES

Delivery Support

Deploying testers and engineers (Software developer in Test), both onsite and remotely from our Lagos office, to help clients deliver projects utilising our expertise in:

- Test Automation – Test Frameworks, Continuous performance testing, Build Pipelines, Scripting, Tooling Support and Development
- Exploratory Testing – Session Based Exploratory Testing and Technical Testing.
- Test Leadership and Management -  Develop of a Test Strategy/ Approach, Collecting Test related KPIs, and Reporting.
- DevOps - Cloud, Infrastructure-as-Code, Deployment, Orchestration, Containerisation and Monitoring.

Consultancy

Our Consultants help transform software delivery through technical and process improvement.

- BDD Coaching - INVEST, Example Mapping and Collaboration
- Subject Matter Expertise - Framework Architecture, Java and Ruby for Testers, Coaching and Training, Strategy, Scaling Good Practice, Tooling – Selenium/Webdriver/Geb, Cucumber/Spock, Jenkins/Teamcity etc.
- Agile and DevOps Maturity - AgilityHealth Accredited Assessments, Retrospectives, Team and Enterprise Dashboards, Growth Backlog and Stakeholder Reporting.

# PROOF OF CONCEPT

The goal of the proof of concept is to create an efficient sustainable testing function utilising good practices without the need for on-going consultancy.

We suggest a 2 week Discovery and Proof of Concept (PoC) phase to help define an improvement roadmap and prove automation of an upcoming feature set for release. The aim of this is to get a comprehensive understanding of the current structure in terms of People, Processes and Technology. We will conduct a number of workshops and interviews with various individuals and teams to help us identify the right type of project for a PoC, as well as the considerations needed for future quick wins.

Deliverables include:
- Produce recommendations for test approach and tools based on our recommended test stack and ensure that choice is fit for purpose with the client's landscape.
- Gather any additional metrics to support ongoing improvement metrics
- Identify areas for Thoughtstudios Consultant to deliver training:
    - BDD - Example Mapping, INVEST
    - Test design, Java coding, scripting and documentation standards
    - Good practices to adopt during testing.

We will produce a recommendation report and action plan based on the Discovery and PoC. We will agree the proposed measurements with the client so they can be tracked throughout our engagement.

Test Automation PoC
A pilot feature will be selected to demonstrate testing good practice and automation, and the benefits it will deliver:
- A custom Test Automation Framework
- Automation examples and walkthroughs
- Quick wins going forward
- Scope out automation backlog using risk-based approach for in-flight proejcts.
- We will also implement a dashboard to help with reporting

# POST POC

Once we have proven via the PoC, an improved method of delivery for testing through automation, we will engage with the client to embed these improved practices within the entire department so it can be run for a sustained period to demonstrate continued benefits. Once the metrics have been gathered and the ROI , the intention will be to scale this approach to the wider business.

Based upon our findings and acceptance of our recommendations within the PoC, we will target the automation backlog for a chosen project, tools selection, team formation, training and infrastructure, focusing on:

- Plan and roll out the automated testing infrastructure and training to support the team
- Implement test automation into a Continuous Integration process
- Implement dashboards to visualise continuous feedback to teams and stakeholders
- Work with key stakeholders to ensure user story acceptance criteria etc. are used as a driver for the automated tests.
- Work with key stakeholders to review and/or define the Definition of Done.
- Quantify a reduction in manual regression test effort . In addition, we will benchmark a sample of manual tests vs. the same tests automated and calculate (as an estimate) a potential savings in time, effort and cost.

Thoughtstudios Limited will create a test automation knowledge base in the form of a Wiki or document.  We will use this to hold information and links useful for maintaining the framework, test strategy, plans, and reports. The knowledge base will provide a valuable asset for managing the delivery and on-boarding new team members.

# NEXT STEPS

Our recommendation is for us to have a conversation so that we can understand your business environment and specific challenges you might have faced; this would also give you an opportunity to ask us any detailed questions.