Test Automation Strategy Worksheet

Name of Project or Application	**Author**
Company XYZ Test Automation Framework	J. Smith
Objectives	**Scope of Test Automation**
Reduce test cycle time Increase test coverage Reduce regression defects in production Assure performance levels are met Low testware maintenance	Customer-facing web site (www.xyz.com) Mobile apps for customer access to products and services Point of Sale system to conduct end-to-end testing of orders from start to fulfillment
Type of Environments	**Type of Software**
Web, Mobile (iOS & Android), Point of Sale	Web-based, Hybrid Mobile App, Proprietary POS Software, APIs
Timelines	**Assumptions**
1 – 3 month – Plan test automation framework 4 – 5 months – Conduct proof of concepts 6 – 9 months – Finalize licensing 10 – 12 months – Roll out to initial teams 13 – 15 months – Roll out to remaining teams	A team of 4 people will drive the project Management is supportive with time and budget Vendors are responsive to questions and will conduct training Teams are supportive in learning and using the framework
Development Tools and Test Tools in Place or Currently Owned (Not Necessarily Used) XYZ Test Management Tool ABC Capture/Playback tool Krypton Open Source Test Automation Tool	**Phases of Testing** Unit/Component Component Integration System System Integration
Types of Testing to be Automated Confirmatory and regression tests of builds (CI) Ongoing regression testing post-release Performance testing of web site API testing of website and POS functions	**Tester Profiles** Developers – Unit/Integration testing, primary skills are in Java and Python Testers – Low coding skills, worked with some tools in the past with limited success Test Automation Engineers – High coding skills, understanding of test automation approaches such as keyword-based, Experience with a wide variety of test tools

Business/operational concerns	
The business depends on accurate processing of orders to remain competitive and stay in business. There have been recent incidents where regression defects have occurred due to the lack of robust regression testing. Release time frames are typically very short – 4 days or less for testing.	

Risks
Mission/Organizational

Defects on the company website and mobile apps are visible immediately to customers and can negatively impact the company's image and reduce company revenue.

Technical/Product

The diversity of technology is a challenge to automate, even using a multi-tool approach.

Project

There may not be enough time to create the automated tests and keep up with testing the ongoing flow of releases. (It will take 9 to 12 months to create a reasonable set of automated tests.)

People may find test automation more difficult than manual testing, which may reduce their mortvation to accept the tools and framework.

Management may be unwilling to commit funds when they see the final cost.

Other

The CIO is very supportive of this effort and is willing to be the champion of the project to senior management.