



# SQUISH

**CASE STUDY**  
**SQUISH**  
**CLIENT**  
**L&T TECH SERVICES**



## Contents

Squish Technical Learning Solution .....	3
L&T Tech Services .....	4
Challenges faced by the Client .....	5
Why Aurelius .....	6
Solution and post solution benefits.....	7

Aurelius



## Squish Technical Learning Solution Delivered to Client L&T Tech Services

**Client:** L&T Tech Services

**Industry:** Information Technology solutions and services

Originally founded as L&T Information Technology, they changed their name to L&T Tech Services in May 2017. L&T Tech Services provides its clients with various Business-to-IT connection services. They rely heavily on doing business while leveraging the institutional knowledge and experience gained from their business development departments in various domains. They have an IT-to-Business connect model which they supplement with the various subject matter experts from the different L&T group of companies in order to improve upon the solutions, business driven contexts and IT services. They provide the advantage of readily available knowledge in the various domains and institutions gained from the various different L&T daughter companies.

Using their partnerships with the various technologies around the world and potential approaches to developing novel models, they are able to disrupt traditional business models and further navigate next generation technologies.

They provide a great transparency and predictability with large and complicated programs so that there is clarity on the investments along with execution of impeccable world class models.



## **Technology:** Squish Testing Tool

## **Domain:** Graphical User Interface testing and Regression Testing

Squish is a Graphical user Interface testing and regression testing tool which provides cross platform capabilities. The test applications can be created for a number of various GUI technologies. Squish is able to develop and record test scripts written in JavaScript, Perl, Python, Ruby or Tcl. The tool consists of two-component system including the runner and the server. Both these components work in Windows, Linux, Unix, Android, iOS, etc. The runner interprets and executes the scripts while the server controls the various applications which are being put under testing. A module is injected and a TCP/IP connection is provided between the AUT and the programs which are being run in the test.

Now Squish integrates the support of behavior driven development and testing by including extended functionalities. Squish is compatible with Gherkin and other tools such as Cucumber and is shipped with the complete source code.

### **Squish supports the following GUI technologies with itself**

- Qt, QML, QtQuick
- Java SWT/Eclipse RCP
- JavaFX
- Windows MFC, .NET Windows Forms and WPF
- Mac OS X Carbon/ Cocoa
- iOS Cocoa Touch
- Web/HTML/AJAX
- Flexibility



- Android
- Xview
- Tk

## Challenges Faced By the client:

With the increasing customer base, the load of information processing and testing on L&T tech Services was increasing considerably making it increasingly tough to test the various QT applications seamlessly. Being one of the market leaders in the domain of IT service providers and Quality and testing application development, the need of the hour was to step up their game by decreasing the overall time of application development. With increasing competition for other organizations both old players and new startups, L&T Tech Services required a quick yet robust method of taking care of their testing services which as of now was being done manually by testing professionals.

The redundant manual tasks took up too much time of the professionals which led to a decrease in the productivity and effective outcome. In the absence of a quicker and more efficient application delivery system sped up by quick testing procedures L&T Tech Services faced the risk of being going down in the market of IT service providence. L&T Tech Services was thus facing the challenge to make up for the time being lost in manual testing and required a test setup to increase the productivity from their workforce targeting them towards more cognitive oriented tasks.



## Why Aurelius

Aurelius Corporate Solutions, was called forth to execute the task of providing a learning solution to L&T Tech Services so that they can effectively solve this situation of task redundancy and lost time in manual testing. Their requirement was highly specific and this is what Aurelius specializes in , by developing a completely customized training solution in the technology of Squish Automated Testing tool, the company was able to realize their end goals. Due to such specific needs, the creation of the new learning solution is not extrapolated or linearly increased from the existing ones, rather the change is exponential in the required direction.

A dedicated task team was setup by Aurelius to develop a complete end-to-end technology solution. This would include knowledge acquisition as per the specific needs of the client. The team was also responsible for providing complete on-shore and off-shore support to the client since day one. A different Talent acquisition team was setup to find the best possible subject matter expert to deliver the learning solution. The SME was to meet the exact needs of the client by providing specialized knowledge in legacy and strategic Squish automated testing implementation using the various tools it provides and the test scriptst that can be built. The client wanted to have specialized implementations to python and so the SME found also had in-depth capabilities in python scripting and development.

All the resources from the global footprint of Aurelius were channeled through the teams dedicated to L&T Tech Services in order to provide a learning solution matching the global standards of technology development. The search base for the Subject Matter Experts themselves is global for which we use our extensive global knowledge community built over the years so that we are not limited to the subject knowledge base of a region.



Along with the theoretical development and knowledge of the tool, the learning solution also provided extensive hands-on sessions which can effectively take care of the practical knowledge development of the participants. The hands-on lab sessions proved to be very effective in making the participants ready for managing the tool and developing scripts for automating the application testing procedures. The trainer provided enough support so that the participants can effectively connect theory with the practice on their own. Without any delay or buffer period, the participants were thereafter able to provide support to the organization through the GUI testing tool Squish.

End to End support was provided by Aurelius to ensure inherent closure of the training including feedback along with resolving of any post-training issues that may arise thereafter.

## **Solutions and Post Solutions Benefits**

The training was delivered through a trainer having extensive industrial experience in the same domain along with inherent capabilities in python scripting language. The instructor specialized in the domain and was able to provide the ins and outs of the tool along with the various best practices to effectively use the tool to its fullest extent. The focus was on using python to develop scripts for testing using the Squish Editor and API. The participants were provided with the hands-on knowledge of Test Framework design with the help of Squish Tool. The participants were then provided with the knowledge of developing various test cases using the Squish Editor along with the integration of Squish using cli in Jenkins which was the server being used for automation.

The trainer covered all the parts of the tool and how they can be used to write frameworks and test scripts using the python scripting language.



L&T Tech Services is now effectively using Squish Automation tool over Jenkins servers and executing speedy application testing procedures which has consequently led to improvement in the overall application development procedures. L&T Infotech can now still claim a fortified stand in the domains of application development and IT service providence through robust testing procedures while saving a lot of time doing that.

The existing customer base is retained and new customers are being added everyday due to the increase in their service capacities and capabilities. This has not only helped the organization but has also helped in improving the overall IT development in the organization as the workforce now can concentrate on more cognitive oriented tasks.

Aurelius specializes in such kind of customized technical learning solutions which are highly beneficial for enterprises and organizations, thus the majority of our focus is on B2B solutions owing to the specialized nature of the services required.