



Mobile Application Automation Testing

Introduction

In the world of e-commerce, it becomes imperative to have technology scale up quickly to solve any given business problem. One of our clients, a leading Organic Farmers Co-operative Society, was embarking on a journey to optimize and digitize their supply chain process between the farmers, the Society and suppliers. This was required to have a bird's eye view of the demand and supply needs for better inventory management. The ask was a mobile application to integrate the farmers, the Society and suppliers onto a digital platform.

Challenges

Although the application building was a seamless process, the critical challenge was to test and launch the application in a short span of time, considering ~ 4K Farmers were using various handheld devices that were operating different versions of Android OS in multiple languages. This meant a robust application testing had to be performed, in less than four weeks, at multiple stages of development and deployment.



4K
Farmer Base



~70
Different
Mobile Models



~3-4
Android
Versions



~100
Test
Scenarios

What we did

Using ASTRA, Synergy's award-winning proprietary automation accelerator framework, we reviewed the client's requirement and proposed '**Test Automation**' being the best way to increase the effectiveness, efficiency, and coverage for the application.

An automated testing approach with pre-defined scripts were developed to cover the user journey, and here we ensured that the testing was across all the different types of Android mobile devices. Here, we tested across different mobile devices by **virtualizing** each of the device type using a '**Cloud based**' mobile platform.

Once the above tests scripts were created, we further fine-tuned them based on the incremental changes and easily repeated the testing and thereby extended the automation for performance testing as well.

This approach resulted in auto comparison of results versus the expected test results. Majority of the quality assurance reporting was automated too.



Automation testing tools



Benefits



Increased efficiency -
~ 70% Faster
when compared
to the manual testing



Consistent &
Reliable results



Cost effective



Improved Accuracy



Reduced
Human
Intervention

Synergy Strategic Solutions

SYNERGY STRATEGIC SOLUTIONS specialize in assisting insurance companies to navigate their digital journey with confidence and ease. Automating business processes, reducing costs, streamlining operations, improving customer experience and modernizing technology are some of the pressing needs of insurers that we address.

We have exclusively focused on the technology modernization since our inception in 2011. Our deep knowledge of multiple industries, their business processes and our ability to build strong digital solutions have made us the preferred partner for several leading multi-national companies across Asia. Headquartered in Hong Kong, we have operations across Singapore, Malaysia and India.



Synergy's ASTRA Framework

ASTRA Framework is a process transformation model comprising a "business due diligence framework" and "automation accelerators" supported by data APIs enabling fast identification, evaluation, and implementation of high-value "quick win" opportunities in the insurance and financial services sectors.