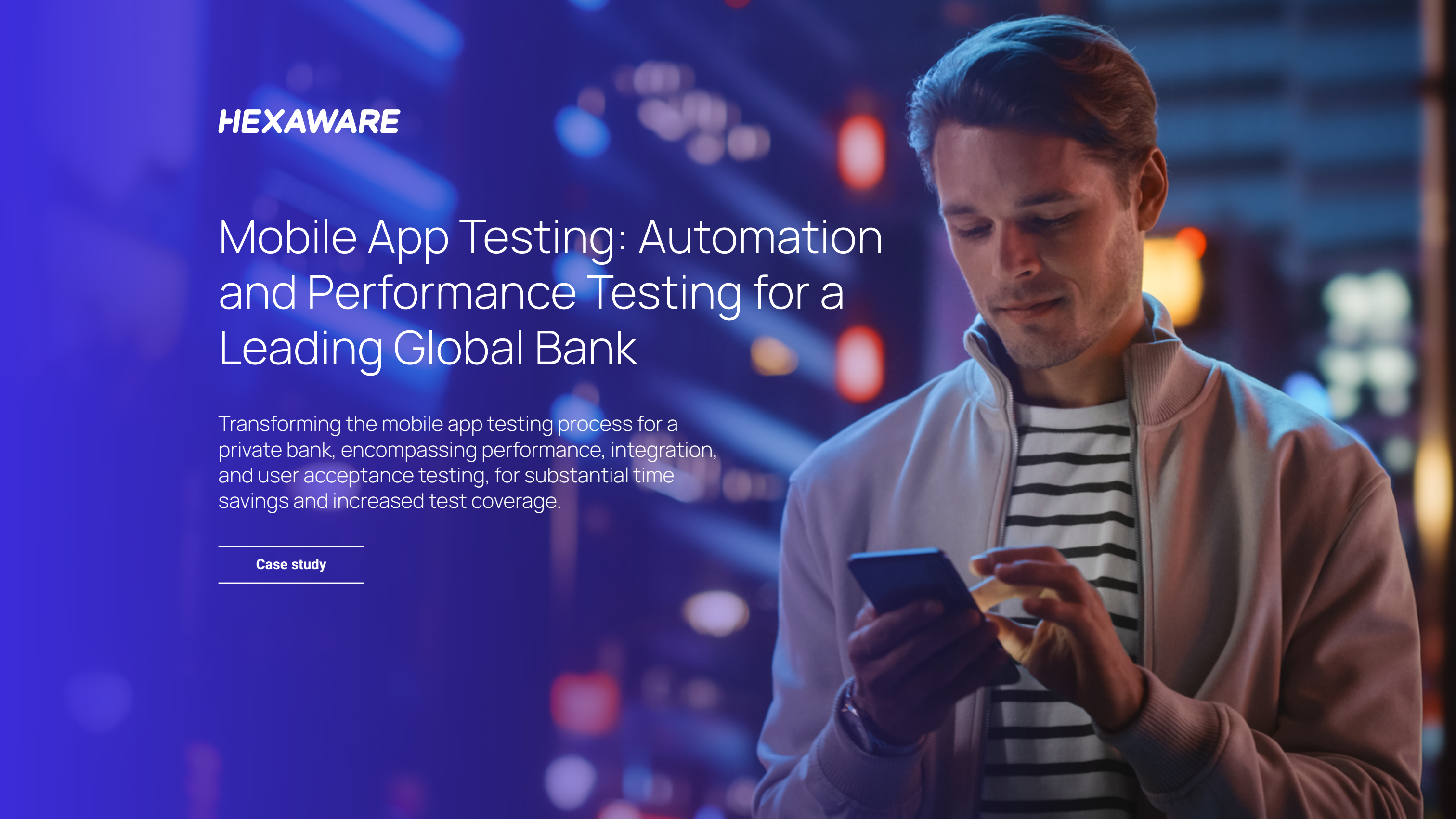




HEXAWARE

Mobile App Testing: Automation and Performance Testing for a Leading Global Bank

Transforming the mobile app testing process for a private bank, encompassing performance, integration, and user acceptance testing, for substantial time savings and increased test coverage.

Case study

Client

| Client

Challenge

Solution

Benefits

Summary

The client is a leading US-based private bank with a global presence. It provides personalized wealth management services to ultra-high-net-worth clients, including entrepreneurs and senior corporate executives.



Challenge

Client

| **Challenge**

Solution

Benefits

Summary

The client had two private banking mobile apps—one for bankers and another for clients—that were compatible with the latest iOS devices. Both apps had monthly feature enhancement releases.

A regression suite of 210 test cases had to be manually executed during each monthly release cycle across three regions (US, APAC, and EMEA) and two test environments: integrated system testing (IST) and user acceptance testing (UAT). The client wanted to reduce the lengthy regression testing time so that they could use that time for other release activities.

The client aimed to **streamline and optimize** their monthly regression testing process for two private banking mobile apps, allowing for more efficient use of time and resources during release cycles.

Solution

Client

Challenge

Solution

Benefits

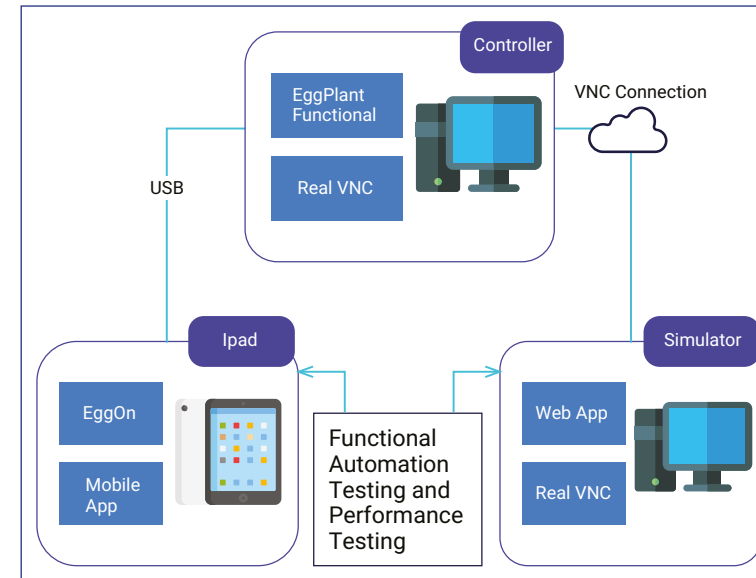
Summary

The client engaged Hexaware to conceptualize and provide a testing strategy to address its business challenges. Hexaware evaluated various test automation tools and frameworks and recommended Eggplant for mobile test automation and performance testing based on its key capabilities.

The key features of the solution were as follows:

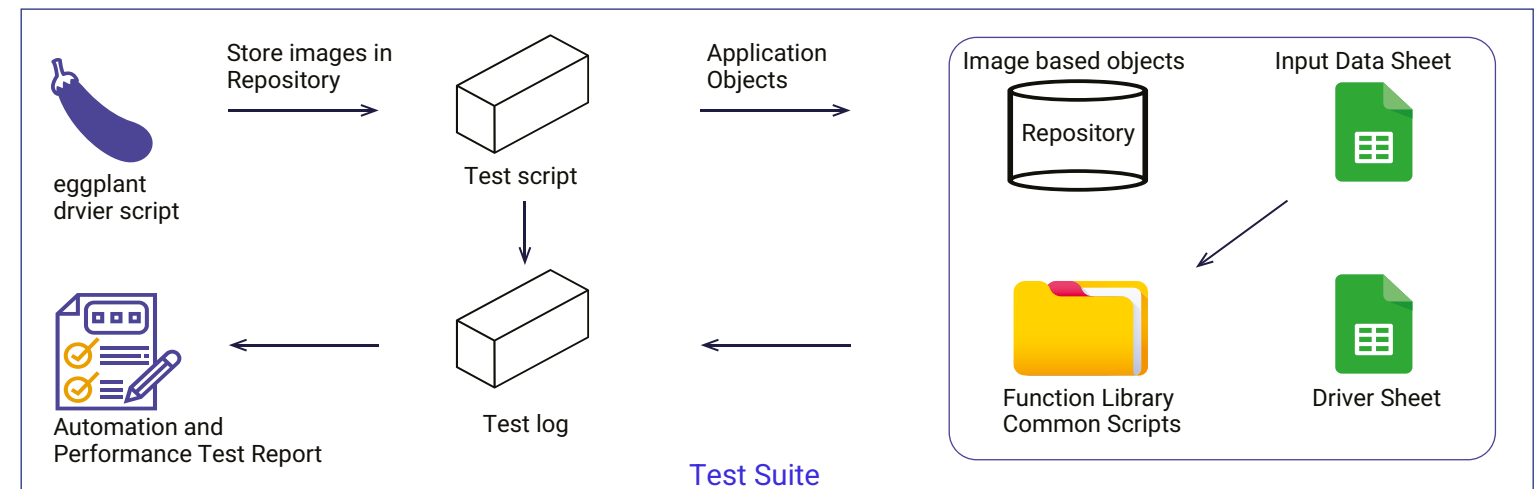
- Created an efficient and easy-to-maintain hybrid framework (Eggplant + LoadRunner) to support test automation and performance testing
- Made test scripts reusable across different test environments and regions consisting of common business scenarios
- Automated testing to validate the data-driven functional behavior of the apps
- Created a reusable regression test suite for future upgrades and maintenance
- Conducted mobile device-level performance testing using the automation framework to identify response times (including the page rendering time), which helped to pinpoint client-side performance issues
- Proposed using a tool for localization testing, as the apps supported multiple languages
- Delivered two iOS-compatible apps, two test environments (IST and UAT), and 210 automated test cases encompassing three regions (US, APAC, and EMEA)

The eggPlant setup



Hexaware provided a **comprehensive solution** that included the creation of an efficient hybrid framework, test automation, performance testing, and localization testing, ultimately delivering a streamlined and effective testing process for the client's mobile apps across multiple regions and environments.

The Automation Framework



Benefits

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Summary

- 60%+ reduction in test execution effort by automating functional and device-level performance testing using the same script and runtime for both types of testing
- 20% lower script development effort due to the framework's built-in script portability
- 50% faster regression testing cycles across regions and test environments

Other benefits included:

- Enhanced test coverage
- Support for automated desktop web application testing using image recognition, apart from automated mobile app testing
- The testing tool and the framework were also used for foreign language and localization testing of the mobile app

The client experienced **significant reductions** in test execution effort and script development effort, and faster regression testing cycles.

Summary

- Client
- Challenge
- Solution
- Benefits

| **Summary**

Hexaware helped the client transform mobile app testing by implementing an automated testing and performance optimization solution. Leveraging capabilities like portability, reusable components, and device-level performance insight, Hexaware enabled an over 50% reduction in regression testing time. The client could reinvest these savings into higher-value release activities. Hexaware’s solution also provided a foundation for ongoing enhancements like web app testing and localization.



About Hexaware

Hexaware is a global technology and business process services company. Our 27,000 Hexawarians wake up every day with a singular purpose; to create smiles through great people and technology. With this purpose gaining momentum, we are well on our way to realizing our vision of being the most loved digital transformation partner in the world. We also seek to protect the planet and build a better tomorrow for our customers, employees, partners, investors, and the communities in which we operate.

With 40+ offices in 19 countries, we empower enterprises worldwide to realize digital transformation at scale and speed by partnering with them to build, transform, run, and optimize their technology and business processes.

Learn more about Hexaware at www.hexaware.com.

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