

CASE STUDY

Ireland's Top
Ministry met its
functional,
performance and
security testing
needs with the
help of Test
Triangle's excellent
quality advisory
and end to end
services

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**TEST
TRIANGLE**

Trusted Partner in IT Consulting

About the **CLIENT**

Our client is one of the most prestigious ministries of Ireland and responsible for promoting the interests of the country. It plays a critical role in coordinating and implementing matters related to national interest and protecting the interest of Irish citizens abroad.



Project CHALLENGES

The nature of the project was quite challenging as it encompasses several unique issues:

- **Isolation:** The complete software testing process has to be carried out in such a manner that the information remains secure from the third party access and cannot be destroyed, modified or hampered.
- **Localization:** The application must be able to work on different platforms and flexible enough to account for changes in language, alphabet, date and money formats
- **Lack of knowledge:** There was a significant challenge in gathering and developing resources, which possess adequate skills to meet the testing requirements of the project with quality
- **Complexity:** The testing project scope clearly states several testing deliverables such as integration with the third-party environment, protection of personal information, stability with different digital platforms which created complexity in advanced software testing.



Test Triangle's **SOLUTION**

The client needed a testing partner, with strong experience in software testing domain. After a thorough analysis of the case, Test Triangle suggested different types of testing to cover all the requirements of the client. Due to the number of alliances with renowned tool vendors, Test Triangle was easily able to implement performance testing, mobile testing, security testing, and functional testing. Test Triangle offered a solution, which addressed all the client requirements.

- Test Triangle identified that a test management tool is required which can reduce the automated software testing cost and agile release cycle. Our test engineers selected 'Zephyr' as a test management tool
- Test Triangle created an easy to implement traceability matrix to map the requirements with 100% test coverage
- The feasibility analysis of different tools allowed our agile test engineers to select the best tools in the complex testing environment. Test triangle used several complex tools such as JIRA, JAR, Burp Suite, Acunetix, and Zephyr



Implementation PROCESS

Mobile Testing

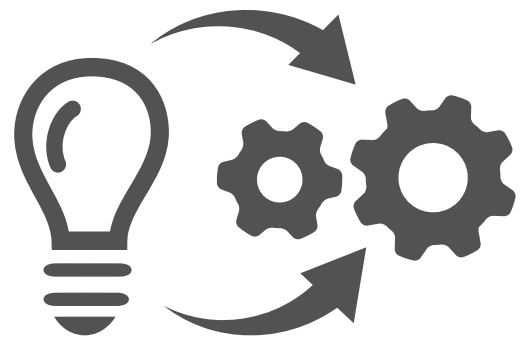
A fool-proof solution was created for the mobile testing which encompasses the OS version, flexible screen resolution, UX and different network modes.

Performance Testing

Test triangle successfully completed the end-to-end cycle of performance testing providing thorough performance engineering report including different user load, response time, server monitoring and so on.

Security Testing

Test Triangle completed thorough security testing using the OWASP guideline, which includes security review, weak server-side control, broken cryptography and insecure data storage using penetration testing.



Key **BENEFITS**

Test Triangle successfully completed the project satisfying all the customer requirements. In addition to it:

- Our test engineers reduced the test cycle time and achieved timely roll out of the application with reusable test cases and test plans
- The testing team significantly improved the quality of the application with compatibility testing. A distributed work environment was created to reduce the overall cost of the project
- We improved the decision metrics quality of the application as now the application was able to verify and validate all the business flows with assumed error paths
- We improved the quality of code generation and replacement at the client's company
- Test Triangle created a cost-effective application by creating a distributed work environment

About TEST TRIANGLE

Originally founded in 2012, Test Triangle has become a leader in IT consultancy services providing services in application testing, DevOps, RPA, Custom software development, mobile app development, Atlassian consultancy, niche IT staff augmentation and training in advanced technologies. Test Triangle is headquartered in Ireland; but it also has branch offices in London, United Kingdom, and Hyderabad, India. We have exponentially grown to become a team of 200+ members providing services in different verticals such as Banking & Finance, Utilities, Pharma, Retail, IT & Education etc.

Test Triangle's R&D department has created a propriety platform, Test Outsourcing Dashboard [TOD] which can be used to manage software testing lifecycle using collaboration tools like email, live chat, video conferencing.

For inquiry please contact: inquiry@testtriangle.com

We have also launched a self-service testing platform (the premium version will be released as SaaS solution), which can provide a project overview and real-time updates of the software development lifecycle.

Over the years, we have established the reputation of being a 'trusted partner in IT consulting'. Test triangle is an agile software company, which constantly strives to exceed the expectations of its clients. We adopt the software testing and software application lifecycle to meet the customer's demand in an efficient and reliable manner. With a global workforce, we have proved ourselves in delivering tight-deadline projects.

We are proud to declare ourselves a client of Enterprise Ireland and European commission.



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