



Ireland's one of the most recognized state agencies availed Test Triangle's performance testing services in creating a large-scale volunteer registration system.

# Case Study



**TEST  
TRIANGLE**  
Trusted Partner in IT Consulting



# | Our Client

Our client is a state agency, advocating for families and child welfare. It is one of the first organizations in Ireland, which has dedicated itself solely to the well being and development of children. As a result, it has also attached itself to several other causes like domestic violence, gender bias and child education. With a dedicated workforce of over 700 people, it is committed to uplifting the status of children in the country.

## | Project Challenges

Being a national level agency, large number of volunteer workers frequently offered their services to the organization. The client wanted a large-scale system wherein all the professionals can submit different types of documents such as Child Protection and Welfare Report Forms (CPWR), Annual Attendance Reports and School Attendance Reports in a secure manner. The client wanted a project, wherein the volunteers:

- Would be able to independently register themselves on the organization's portal
- Submit different types of forms such as Child Protection and Welfare Report Forms (CPWR)
- Can view their application forms after submitting it

These functional requirements created several challenges in the testing process:

- Since new functionalities were added into the system, Test Triangle has to make sure that user experience remains smooth after the transition
- Time constraint: The client wanted to make the website go live as soon as possible so the testing team face the pressure to cover the test scenarios quickly while maintaining the quality
- Creating a robust testing framework: Developing a testing framework requires a specific skill set, knowledge and experience



# | Technology Stack

Azure VM, Asp.Net, MSSQL, Azure DevOps, Microsoft Playwright, Postman, Apache JMeter



## | Test Triangle's Solution

In collaboration with the client, Test Triangle crafted a smart testing strategy, combining cost-effective open-source tools, thorough cross-browser testing, and efficient test coverage. Following solution was provided by Test Triangle's engineers:

**Choosing Smart Tools:** Picking open-source tools for website automation saved money and made things flexible.

**Checking on Every Browser:** Test Triangle tested the website on different browsers to make sure it worked well no matter which one people used.

**Covering All Bases:** Test Triangle used a traceability matrix to make sure all the tests matched up with what the client wanted.

**Making Things Reusable:** Test Triangle made scripts that could be used over and over, connected with the database for extra flexibility.



**Speeding Things Up:** Continuous Integration (CI) was seamlessly integrated, ensuring rapid coverage of all test cases within a condensed timeframe.

**Performance and Scalability Assurance:** Test Triangle conducted rigorous performance and scalability tests, scrutinizing every aspect to guarantee the website's compliance with stringent quality standards before going live.

## Benefits Achieved

**Saving Money:** Test Triangle's clever automation reduced testing costs by 20%, and efficient test management optimised resource allocation, further cutting expenses.

**Amplified Testing Coverage:** Testing doubled in efficiency, covering more ground, thanks to a systematic and comprehensive approach facilitated by efficient test management solutions.



**Early Issue Detection:** Meticulous testing, coupled with functional and automation testing, identified and resolved issues early, reducing fix costs and ensuring a high-quality product.

**Enhanced Collaboration:** Efficient test management fostered seamless collaboration among cross-functional teams, providing a centralised platform for communication and reporting.

**Accelerated Time-to-Market:** The integration of functional and automation testing expedited the testing process, ensuring a faster delivery of the final product to the market and gaining a competitive edge.

**Improved Decision-Making:** Robust reporting and analytics in the test management solution empowered decision-makers with real-time insights, enabling data-driven adjustments and strategic planning.



# 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. 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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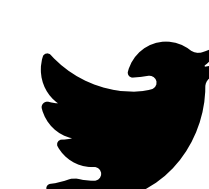
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