



Cygnets **Infotech**
IT is about you

CASE STUDY

TEST AUTOMATION REDUCED 60% MANUAL TESTING EFFORTS

For a leading Healthcare Company

COUNTRY
USA

DOMAIN
HEALTHCARE

CYGNET INFOTECH

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Client Profile

The client is a healthcare company based in the United States of America. It offers healthcare products and insurance services for more than 142 million people worldwide. It is one of the top 10 ranked in Fortune 500 and the largest healthcare company in the world by revenue, with a revenue of more than \$225 billion in 2018. The client company serves people with healthcare services through two distinct complementary businesses. Their mission is to help people live healthier lives and make the healthcare system work better for all.



Business Challenges

The client company had been struggling to deal with the tedious process of manual UAT testing for their web application used for providing healthcare solutions. They needed a solution partner who could help them reduce their manual efforts and automate approximately 400 manual test cases. They also wanted their technology partner to investigate the data captured through rigorous testing of reports generated in PDF and/or TSV formats. In addition, they needed to test their web application on different versions of OS/Browsers without detailed documentation. They also wanted to make sure that the upgradation from the previous release to the new release would be glitch-free and seamless.

The client has a major release planned every September where 1500 test plans are evaluated. This is not practical to test manually since it involves a lot of data verification and validations. In manual testing, there is always a possibility of human error and it is not practical to test 1500 plans where each plan has more than 70 data verification points with 100% accuracy. Each test plan took around 27 minutes for execution totalling the turnaround time to 675 hours involving both the offshore and onshore teams on the tasks when automation solution was provided during the initial phase. These could not be tested manually earlier due to high number of data verification in each plan.



“It is a struggle to maintain the level of quality and productivity while gathering insights from all the manual hours we are putting in.”

- QA Manager

Solution

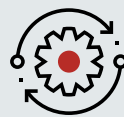
Cygnnet’s testing experts suggested using TestingWhiz as a testing tool. To reduce manual efforts, the TestingWhiz team offered Whiz-Consulting services. As part of the Whiz-Consulting services, the analysts team gathered manual use cases from the client’s team while the automation experts converted them into automated scripts using the TestingWhiz automation tool. The team gradually enhanced their regression cycles by automating some of their use cases for UAT final release testing. With the accuracy of the tool, we delivered a bug-free product functional in the production environment within the stipulated deadlines. To test all the functionalities of the applications, we automated process flows and interaction with the server. We also created a customized tracking process to provide the client with daily updates and project statuses.

TestingWhiz team optimized the test case evaluation scripts which brought in direct significant performance improvement. Now, the same script takes around 3 mins to test one plan which means 75 hours now for them to test everything which took 675 last year.

Types of Testing included in the solution:



Functional Testing



Regression Testing



UI Validation Testing



Backend Request Testing



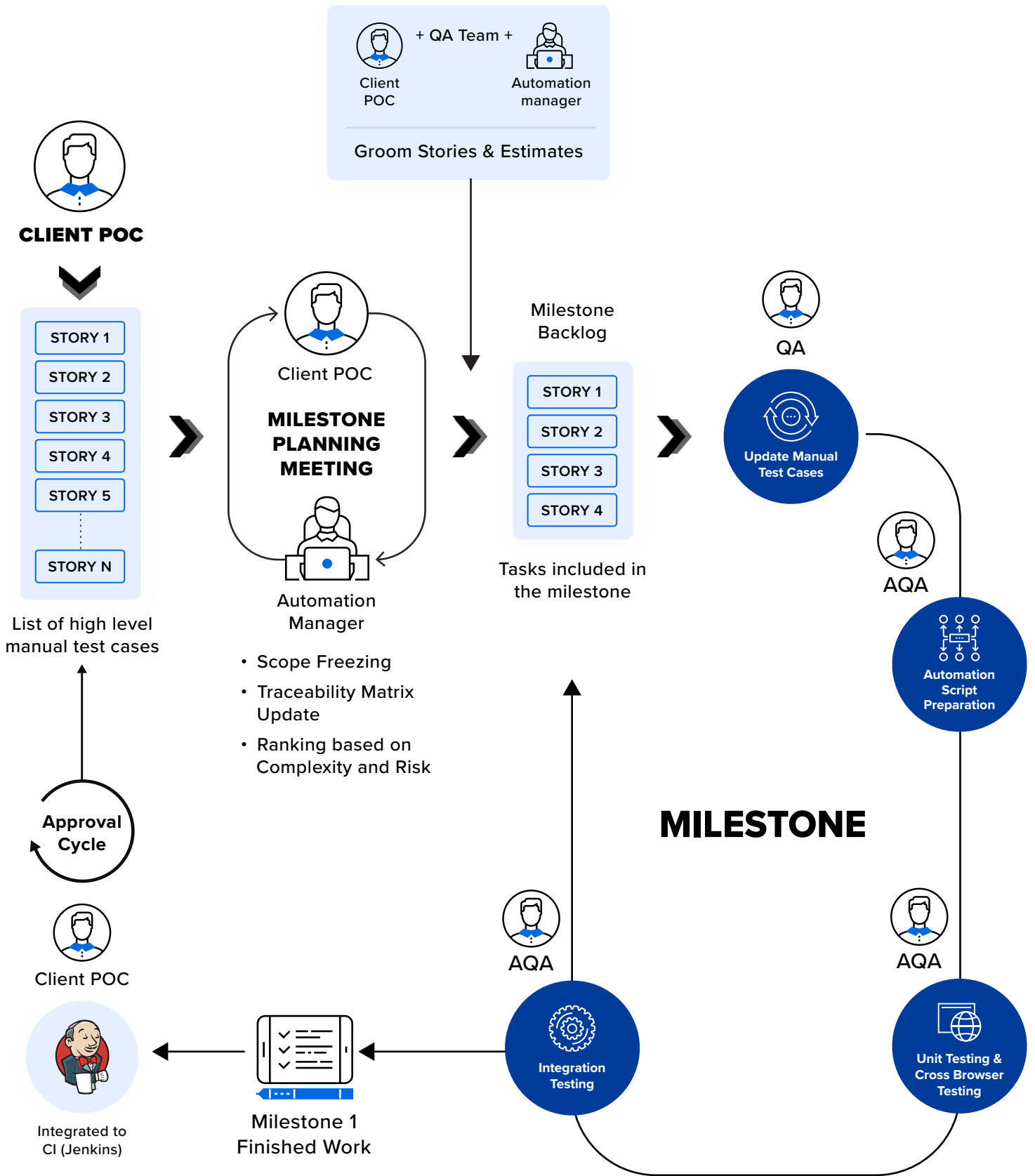
Fantastic! Thank you, team, for the excellent collaboration to optimize script performance. A 61% execution time reduction is truly remarkable. It will help our team tremendously during post-deployment test execution. This year's release feels like magic is at work.

WE ARE VERY HAPPY WITH THE SOLUTION.

QA Manager



Technical Solution Framework





Business Benefits

 **60%**

Reduced efforts for overall
SDLC

 **90%**

Time reduction to run
UAT Tests

 **1500**

Test Plans valuation in just
75 hours

 **70%**

Time reduction for web
application testing



Applied Technology Accelerators



Proprietary Automation Tools

Our proprietary codeless test automation tool (TestingWhiz) supported by in-house DevOps expertise make for superior and rapid product releases.



Experienced Team

Deep domain experts with global exposure lend their expertise to handpick the best set of solutions for unique business challenges with speed and efficiency.



DevOps

Seamless collaboration, continuous feedback, integration, and delivery allowed superior and rapid releases.

Tools, Technology and Methodology

TOOLS & TECHNOLOGY

TestingWhiz, Excel, PDF, Java, Angular JS

FRAMEWORK

Reusable Keyword Driven Framework

BROWSER COMPATIBILITY

Google Chrome, Mozilla Firefox, IE and Edge using Headless Execution

PROJECT MANAGEMENT METHODOLOGY

Waterfall

DEVELOPMENT ENVIRONMENT

Windows

CLOUD TESTING PLATFORMS

BrowserStack, SauceLabs



About Cygnets

Cygnets Infotech is one of the most trusted names in the IT space delivering technology solutions to global clients across 35 countries. Born out of a vision to create software development company where quality, innovation and personalized services trump low cost, makeshift solution, Cygnets partners with its client to help them transform into high performance businesses.

Cygnets has deep industry and business process expertise, global resources, and a proven track record in digitally transforming enterprises. Cygnets can mobilize the right people, skills and technologies that improves business performance.

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Working with
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Delivered
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Products



100% Agile
Approach
Creates Value



"Technology
First"
Company



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Process
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Digitize, Scale and
Transform into
High-Performance
Business