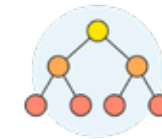


The background is a dark blue gradient with a technical illustration of interlocking gears and circuit lines. A hand in a dark suit sleeve is visible on the right, holding a pen and pointing at one of the gears.

US-BASED MEDICAL OBESITY TREATMENT PLATFORM PROVIDER STRENGTHENS TESTING AND BOOSTS CONFIDENCE IN QA.

CASE STUDY

TEST AUTOMATION FOR FASTER RELEASES



A leader in the medical obesity treatment platform reduces manual testing effort and improves test coverage with Zuci's test automation framework.

PROBLEM STATEMENT

The client is a 30+-year-old US-based obesity treatment platform that provides deeper patient engagement and remote management of ongoing patient care. Backed with data-driven technology, the engineering team at the client's helps varying sizes of healthcare organizations with individualized treatment plans, health risk assessments, and remote patient monitoring.

The client partnered with an outside vendor for its software development. Within their continuous integration workflow, product owners were running manual tests in UAT with every deployment. With a myriad of requirements coming in for the application combined with unplanned releases, the team was having a hard time keeping up with the productivity, quality of the application, and testing activities.

Having in place a diverse community of users receiving continual, critical, and high-tech support, they understood it is significant to strengthen their testing activities and boost their confidence in QA for a fine quality application.

BUSINESS GOALS

A scalable test automation framework that would:



Reduce product owner teams' effort in UAT by automating test suite



Support multi-browser and parallel execution



Kick start deployments in an automated fashion with every check-in

HOW ZUCI SYSTEMS HELPED?



Proposed a Service-level agreement (SLA) based QA consultation and formed a dedicated QA team to operate within project-level SLAs



Created test scenarios for the entire workflows after a keen observation of UAT and automated them using Selenium



Built a reliable & scalable quality framework that quickly adopts application changes



Integrated test scripts with Continuous Integration tool

Continued →

HOW ZUCI SYSTEMS HELPED?



Presented customized reports with screenshots on test failures and integrated to test management tool & defect management tool



Put together a plan on integration with a cloud-based test environment for parallel execution of tests across multiple browser/ device combinations

SLA BASED DELIVERY MODEL

The following are some of the SLA's that Zuci has agreed and delivered for the client:



Timeliness of delivery on committed schedules

% Of tests automated



Quality of the Deliverables

Defects by type



Quality of coverage & work

Defects escape ratio



Budget Performance

Test automation effectiveness



Status timeliness

Mean time between failures and mean to repair(MTBF and MTTR)

SOLUTION



Run automated tests using Java + Selenium using TestNG framework •



Covered and integrated major workflows of UAT test scripts with CI tool in less than a month



Implemented a highly versatile framework that is very much user friendly for the manual testers to execute & analyze and robust enough to support application changes with minimal maintenance



Implemented parallel test execution across environments for each deployment

BUSINESS OUTCOME

0 to 60%

UAT automation test coverage in 30 days

97%

test automation accuracy

Cut down UAT testing cycle from

32 hours to 1.5 hours

TECH STACK

 Jira Software



TestNG

TestRail



30-MIN PRO BONO CONSULTATION + 6-WEEK GAP ANALYSIS > RELEASE HASSLES

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