



Quick go-to-market: Regression time cut guarantees **monthly product launches** for insurer





Challenges:

- Massive amount of manual work
- Critical bugs detected on the day of release
- High regression time
- Gaps in error detection
- Late feedback
- Lack of skilled resources

Solutions:

- Brought in CI/CD and test automation
- Created a test automation framework combined with an infrastructure set up to carry out tests
- Day by day
- Gradually increased the number of test automation cases
- Covered regression tests, smoke tests and E2E tests

About the Client

Our client is a motor insurance brand part of a big insurance group based in England, launched in 2007. The insurer has consistently ranked among the top 10 in the UK and has a growing customer base that has crossed 500,000.

Challenges

Our client is a digital brand primarily launched to make use of competition in the online comparative insurance product space. This meant that consistent product releases and focus on quality were crucial pillars for our client's business. But the client's product releases were neck-deep in quality issues and delays due to

- Massive amount of manual work
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- High regression time
- Gaps in error detection
- Late feedback
- Lack of skilled resources

When dealing with complex insurance products and regulations, there is a large number of test cases to cover. Manual testing proved to be time-consuming, laborious. Gaps in error detection let critical bugs to slip through, only to be detected on the day of release or later. This led to high regression time, and quality issues in the client's products, affecting customer experience and satisfaction.

The lack of skilled resources in-house to enable test automation was a challenge too since it requires specialized knowledge and skills.

These issues, coupled with the client's thirst to constantly reinvent themselves resulted in finding a test automation solution that matched our client's business needs and brand quality.



Results:

- Increased speed, efficiency and quality
- Reduced manual work
- Test automation reduced regression time, aiding monthly product launches

Aspire's Solution

Aspire Systems has a team of insurance domain experts who were aware of the nitty-gritty of insurance products and what needs to be done to automate insurance application testing. The team, based on the client's challenges and business goals, identified these broad-based solutions to address the client's business needs.

- Professionalize the software development capability
- Decrease the time to market by increasing the number of software releases
- Improve client satisfaction by providing well-tested solutions

Test automation framework

Creating a test automation framework helped standardize the testing process, which in turn improved consistency and accuracy. The framework was designed to cover different types of tests, such as regression tests, smoke tests, and end-to-end tests. Additionally, creating an infrastructure setup helped ensure that the test environment was consistent and reliable.

Brought in CI/CD and test automation

Introducing a CI/CD (continuous integration/continuous delivery) process can help to automate the testing process and improve feedback cycles. By integrating test automation into the CI/CD pipeline, the testing process was run frequently and consistently, which helped detect defects earlier in the development cycle. Delays in relaying feedback were reduced considerably with this.

Moderating the number of test automation cases

By increasing the number of test automation cases gradually, the team ensured that the testing process was comprehensive without overwhelming the development team. This helped identify more defects early in the development cycle and backlog in bugs needing a fix. This reduced the risk of critical bugs being detected on the day of release.



Covered regression tests, smoke tests, and E2E tests

The team also covered all bases with regression tests to prevent new bugs, smoke tests to smoke out any possible critical issues and end-to-end tests to check for the product's real-world functionality. This ensured that the test automation solution implemented for the client was comprehensive and that all critical issues were detected early in the development cycle. Regression time was cut considerably with a future possibility of product releases twice per month.

Test reports to mission control

The introduction of test reports into mission control is an important step included towards improving the overall software quality and reliability. Test reports provide valuable feedback on the success or failure of each test case, allowing developers to quickly identify and address any issues that arise. By integrating these reports into mission control, developers could monitor the progress of testing in real-time, ensuring that any issues were identified and resolved as quickly as possible.

Key Principles

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- Hundreds of test cases are executed in off-peak time within hours instead of days
 - Executed test packs on several environments simultaneously and regularly
 - Automated tests suite was done in the morning, giving the team daily feedback on the quality of the software



Benefits

- Regression time reduced considerably to facilitate faster time-to-market
- Increased speed, efficiency and quality
- Reduced manual work
- Cut in testing costs due to test automation
- Minimal effort to run tests repeatedly



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