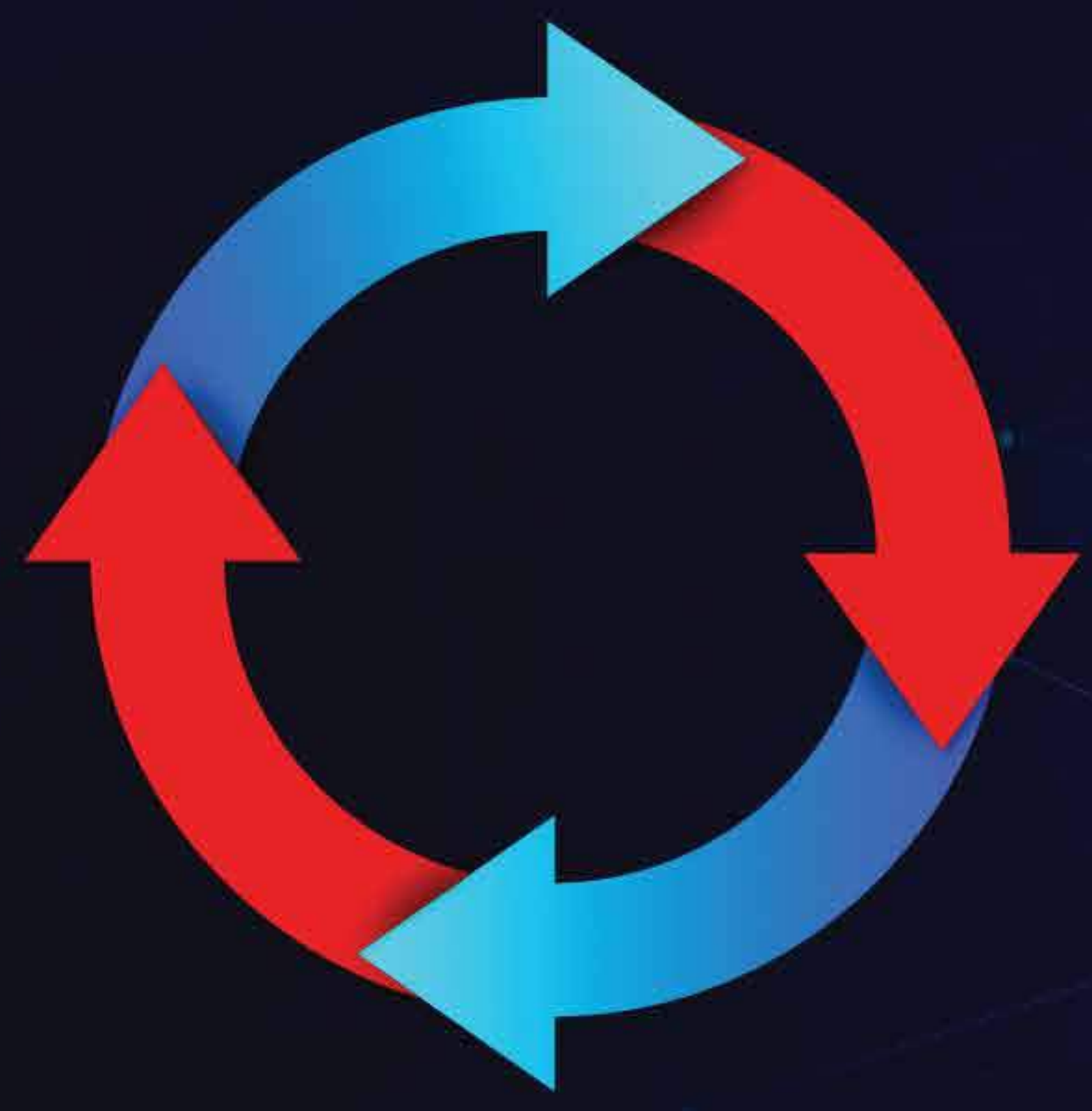


**45 hours** of regression cycle time was reduced to **3 hours** by automating 180 test cases



#### About Client

An India-based aviation & aerospace component manufacturing company, wants to connect the 4 keys - **passenger, baggage, ground assets and airport** - of a journey to make data sense, utilise AI and drive growth.

They chose Enhops to deploy business/domain experts, prepare/publish UAT test strategy, and implement BDD Cucumber Framework and Regression Suite automation for web mobile applications. Enhops' experts understood the architecture and business needs and correlated the same with logical data flow, database structures, web services protocol, thick client technology, and authentication process.



#### THE CHALLENGES

### 4-key areas of concern

The initial assessment of client's software testing function revealed a few challenges:



Tight timeline (client wanted to perform end to end UAT testing for their applications in a brief time).



Inability to develop BDD cucumber framework for supporting web and mobile applications.



Inadequate test coverage and no disciplined test processes.



Lack of business/domain experts to perform UAT.

#### Enhops' Solutions

### 6-key Solutions

We implemented hybrid framework to build robust Regression Suite using Selenium automation tool and built the most critical set of automated tests ensuring environment readiness.

#### What we did:



Understood application architecture, business needs, and user scenarios, logical data flow, database structures, schemas, web services protocol, thick client technology, authentication process.



Deployed business/domain experts & prepared/publish UAT test strategy.



Implemented end-to-end UAT testing which includes functional and mobile testing using Jira (test management tool).



Established the test processes and test governance.



Test execution set-up for multiple mobile devices for both physical devices and cloud.



Integrated the automation suite with Jenkins to enable continuous automation, centralized execution and reporting.

#### Results

### 4-Key Outcomes

We automated functional testing of web application, mobile application in QA and UAT environments.

1

Enhops' business/domain experts performed UAT testing for application features (precision time stamping, calculated off-block time for the aircraft) which helped the client to achieve quick time to market.

2

Automated 108 test cases and regression cycle time was reduced from 45 hours to 3 hours.

3

Performed parallel execution, across browsers, platforms and scheduled execution using automation framework.

4

CI/CD implementation.

#### About Enhops

**Enhops** works at the forefront of Quality Engineering and Software Product Engineering solutions to suit the most unique business needs. Enhops was established in 2015 with a vision driving Digital Disruption across industries through **Quality-Engineering, Automation-First**, and **Smart Testing**. Our philosophy has always been to partner with our clients in their Digital Transformation journey.

Blending Enhops' Quality Engineering capabilities and ProArch's two decades of expertise in Software Product Engineering, we are a true partner who delivers value-based outcomes.

Looking for building high-quality digital applications?

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