

# CASE STUDY

## Mobile Test automation of an eCommerce Application

### HIGHLIGHTS



#### Challenges:

- *Test for platform compatibility*
- *Create correct device matrix for testing*
- *Low customer ratings on Play Store & App Store*
- *Extensive bug leakages*



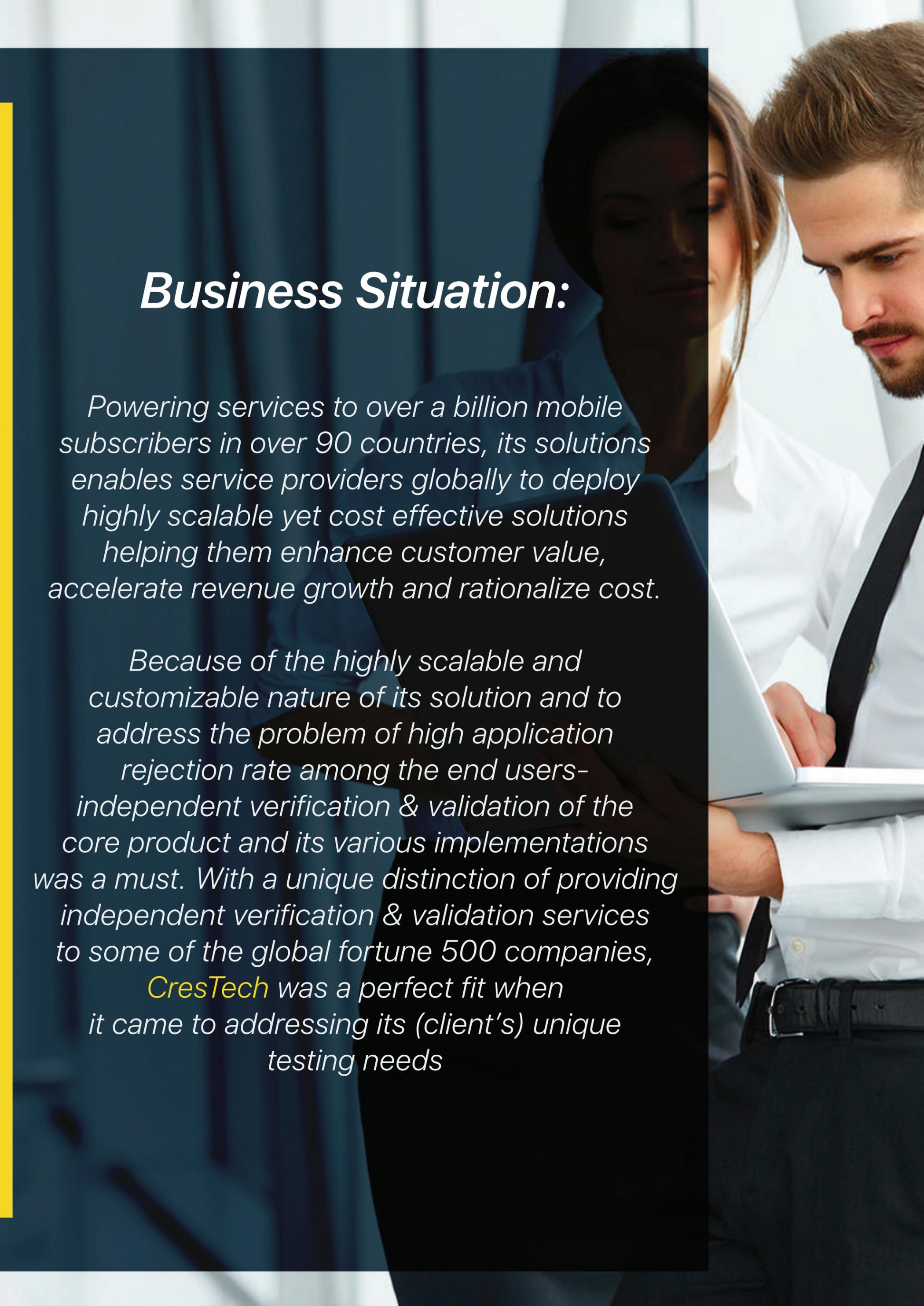
#### Our Solution:

- *Test Automation framework implementation*
- *Near to reality device matrix creation for testing (spanning multiple platforms)*
- *Creating and stabilizing scripts to be executed on various platforms*
- *Timely reporting to all stake holders at the end of execution*



#### Benefits:

- *Better reviews on Play/ App stores*
- *Lesser time-to-market*
- *Testing time reduced by 60%*

A background image showing a group of business professionals in a meeting. A woman in a blue blazer is pointing at a laptop screen, while a man in a white shirt and tie looks on. The scene is dimly lit, with a blue and yellow color scheme.

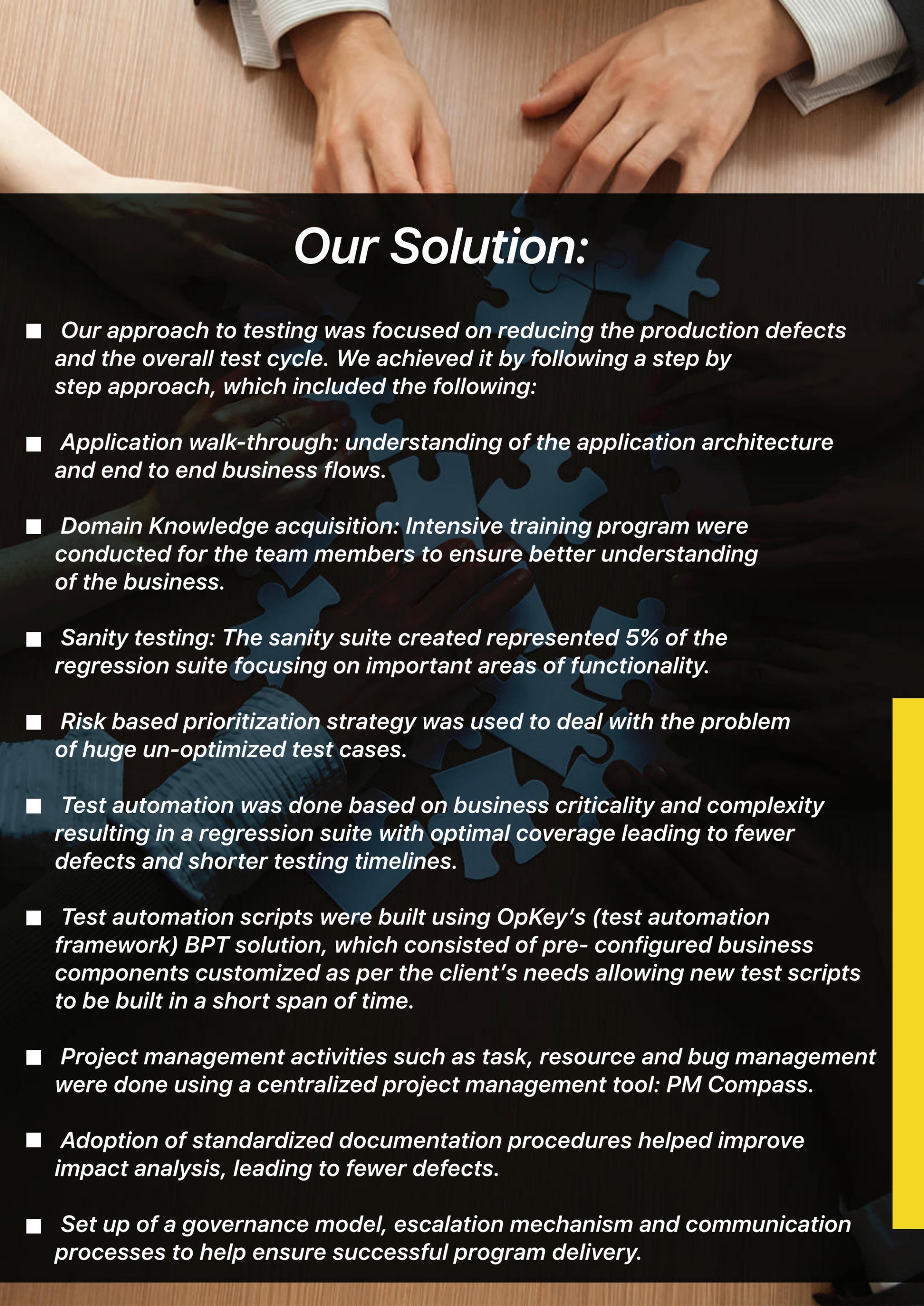
## ***Business Situation:***

*Powering services to over a billion mobile subscribers in over 90 countries, its solutions enables service providers globally to deploy highly scalable yet cost effective solutions helping them enhance customer value, accelerate revenue growth and rationalize cost.*

*Because of the highly scalable and customizable nature of its solution and to address the problem of high application rejection rate among the end users-independent verification & validation of the core product and its various implementations was a must. With a unique distinction of providing independent verification & validation services to some of the global fortune 500 companies, **CresTech** was a perfect fit when it came to addressing its (client's) unique testing needs*

## **Challenges:**

- *Large number of un-optimized test cases leading to large test cycles*
- *Lack of correct device matrix for extensive platform coverage resulting on lower ratings on App/Play stores*
- *Lack of thorough impact analysis resulting in highly unstable builds*
- *Platform dependent application components leading to application deployment challenges*
- *Huge test pre-requisites leading to large regression test cycles.*



## **Our Solution:**

- ***Our approach to testing was focused on reducing the production defects and the overall test cycle. We achieved it by following a step by step approach, which included the following:***
- ***Application walk-through: understanding of the application architecture and end to end business flows.***
- ***Domain Knowledge acquisition: Intensive training program were conducted for the team members to ensure better understanding of the business.***
- ***Sanity testing: The sanity suite created represented 5% of the regression suite focusing on important areas of functionality.***
- ***Risk based prioritization strategy was used to deal with the problem of huge un-optimized test cases.***
- ***Test automation was done based on business criticality and complexity resulting in a regression suite with optimal coverage leading to fewer defects and shorter testing timelines.***
- ***Test automation scripts were built using OpKey's (test automation framework) BPT solution, which consisted of pre- configured business components customized as per the client's needs allowing new test scripts to be built in a short span of time.***
- ***Project management activities such as task, resource and bug management were done using a centralized project management tool: PM Compass.***
- ***Adoption of standardized documentation procedures helped improve impact analysis, leading to fewer defects.***
- ***Set up of a governance model, escalation mechanism and communication processes to help ensure successful program delivery.***

# Benefits

*Leveraging our expertise in global delivery, CresTech executed the project at its offshore location, which led to the reduction of project resource cost by almost 50%.*

*Using Test automation a regression suite with optimal coverage was created leading to fewer defects and shorter testing timelines.*

*Future test cycles were shrunk by more than 40% by employing a repeatable test strategy and reusable artifacts.*

*Delivered high confidence and predictability to the client on new and existing functionality.*

*Application was optimized to cope with significant surges in visitors and absorb constant changes and upgrades without jeopardizing performance.*

*Improved customer reviews and ratings on the Play/App Store*

*Increase in the no. of users*

*CresTech is a market leader in providing quality management solutions & services. Our solutions & services have helped organizations meet their project time lines, budget and quality goals. With a commitment to offer the best and experience in delivering quality solutions & services across industries, the company has 300+ test specialists with global delivery centers across Noida, Bengaluru, Gurugram & US.*

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**The Rest we Test!  
In God we Trust**

**End of Case Study**