

# Quality Engineering of supply chain solutions



A leading supply chain solutions to a diverse base of over 29200 active customers such as e-commerce marketplaces, direct-to-consumer e-tailers and enterprises and SMEs across several verticals such as FMCG, consumer durables, consumer electronics, lifestyle, retail, automotive and manufacturing.

They build the operating system for commerce through world-class infrastructure, logistics operations of the highest quality, and cutting-edge engineering and technology capabilities.

## The Challenges

The Client doesn't have proper QA process, and facing several testing challenges that directly impacted the product's delivery and Quality

- Time consuming manual test process
- High Test Cycle Time
- 320 man hours required for regression cycle
- Missing continuous Delivery pipeline

## Quarks Solution

Quarks provided end-to-end automated testing in an Agile environment, utilizing only open source tools for automation:

- Hybrid Test Automation and implemented the continuous delivery using Selenium, Rest Assure, Appium, TestNG, GitHub Actions etc
- Implemented Common client which will be used for Web, Mobile, API automation
- Implemented best QA practices and organised tests in Azure Test Management tool
- Implemented CI pipeline using GitHub Actions

## The Benefits

Quarks innovative solutions helped:

- Achieving 95% test coverage
- Early detection of defects by ~75% by Shift-left automation
- 6x faster test runs, 10 minutes feedback loop
- Reduced regression time to 5 man hours
- 40% saving in testing resources