



CASE STUDY

QA ENGINEERS LEVERAGE TEST AUTOMATION TOOL APPIUM TO ACCELERATE APP RELEASE



CCS
technologies

www.ccs-technologies.com

THE OPPORTUNITY

CCS developed [App4Order](#), an app for automating and digitizing the sales order process for retailers and distributors catering to new-age consumers. App4Order is a sales order booking mobile app that was often customized to suit client-specific needs. It also had frequent feature updates to keep up with the market's changing dynamic, over and above customizations. To ensure high-quality, bug-free app delivery, the mobile app needed thorough testing by CCS's QA Engineers. Regression testing is done to ensure that a code change/update does not damage the app's existing functionalities. Manual regression testing necessitates a significant amount of human labour and is extremely time intensive. CCS identified this as an opportunity to leverage automation to keep the cost of testing in check and speed time to market (TTM).

CCS METHODOLOGY

To ensure high-quality feature releases, customizations, app updates and to reduce the cost of testing, the QA team optimized and automated the test coverage. CCS test automation methodology:

- Implemented open-source tools like Appium, TestNG and Java for cost-effectiveness.
- Test maintenance and code reusability was enhanced using Page Object Model design pattern.
- The use of next generation testing framework TestNG, helped with data driven testing and the execution of Test Suites.
- Integrated with Maven for configuring the build with dependency files.
- Used open-source library Extent Reports to develop aesthetically appealing HTML-based test automation reports.

BENEFITS

- Reduced regression testing effort and cycle time by over 75% and minimized costs with effective resource utilization.
- Increased the automated test coverage.
- Ensured faster releases by incorporating automation regression testing into agile.



-
- Opting for open-source tools helps save license costs.

TOOLS & LIBRARIES USED



CORPORATE OFFICE

39/5173 - D, K C Abraham Master Road,
Panampilly Nagar, Ernakulam, India

US OFFICE

919 North Market Street, Suite 950
Wilmington, DE 19801, USA

DEVELOPMENT CENTER 1 & 2

1st & 4th floor, Lulu Cyber Tower 1,
Infopark, Kakkanad, Cochin 682030, India

DEVELOPMENT CENTER 3

Erayilkadavu, Kottayam, Kerala
686 001, India

collaborate@ccs-technologies.com

Business Enquiries: +91 96564 89733, +91 95676 71727, +1 909 979 9884