

**ZUCI ASSURES QUALITY OF MOBILE APPLICATION FOR OBESITY
TREATMENT CARE PROVIDER**

CASE STUDY



Industry - Healthcare



Location - San Francisco, USA



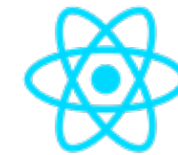
Services Offered - Mobile app testing

MOBILE APPLICATION TESTING CASE STUDY



With Zuci's mobile application testing services, the medical obesity treatment platform performs end-to-end testing of its mobile application.

ABOUT CLIENT



Our client was one of the first to treat obesity as a chronic disease back in 1986. Frustrated with long wait times and an inability to help more patients get the care they needed, our client's service came into existence, combining their team's clinical expertise with tech-enabled tools to scale obesity treatment beyond the clinic.

With their mobile application, the client offers easy-to-use software tools combined with the latest research and educational knowledge in the field of obesity medicine, accelerating the diagnosis and prescription process for providers and their patients.

PROBLEM STATEMENT

As a managed testing service provider for the client, Zuci's mobile app testing experts were tasked with assuring the quality of the following features of their applications:

- Patient mobile native app
- Add button
- Logging and tracking
- Access for patient users
- Daily digest
- Plans section
- Logs
- Settings section
- Appointments section
- Notifications and alerts
- Medication reminder

BUSINESS GOALS

The primary objectives of the testing included:



Ensuring that the mobile application meets the quality requirements (functional and non-functional) in line with its web application.



Executing and verifying the test scripts, identifying, fixing, and retesting all defects.



Developing a production-ready software for the mobile application.



Creating reusable test scripts for functional and UAT test execution.

HOW ZUCI HELPED

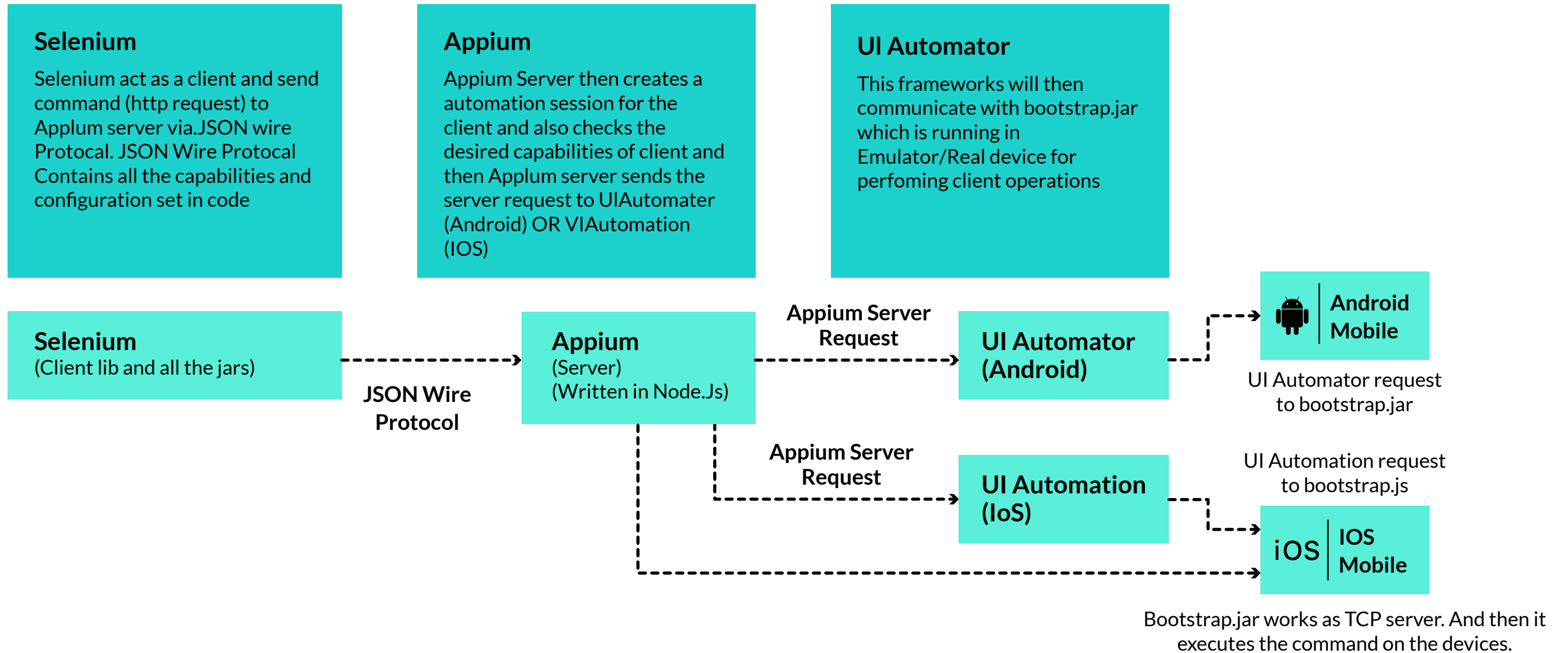


Two dedicated team members at Zuci were engaged to complete the tasks. The client's team built products with Agile at the helm of software development. As soon as the Business Requirement documentation (BRD) was approved, the QA team kicked off the design of test cases based on the user stories and the BRD.

- Proposed shift-left testing strategy as it aptly fits the agile process
- Helped with test data setup generation from different sources and its setup
- Enabled setting up test automation framework based on Selenium which can be used to test web application
- Integrated Appium, a mobile automation framework with Selenium for native and hybrid mobile application testing
- Using Appium + Sauce Labs, cloud-based tool, automated tests are run on simulators (iOS) and emulators (Android) as well as real devices (Android and iOS both)

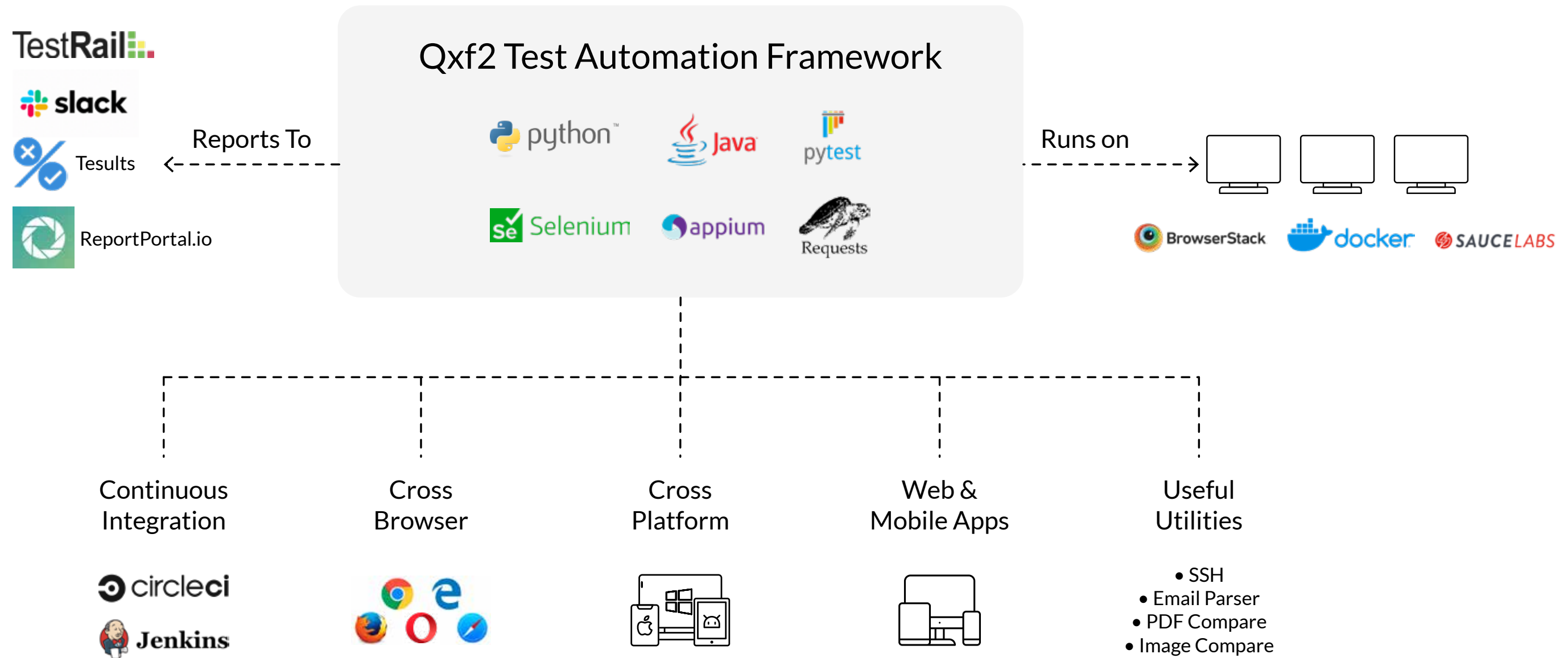
Here's the proposed Appium Architecture

Appium Architecture



Continued →

Integrated Appium with the client's continuous integration/delivery tool



Continued →

HOW ZUCI HELPED



We crafted a testing approach that checks the following functional and non-functional parameters of the application:

- Functional testing
- Smoke/Build verification testing
- Exploratory testing
- User Interface testing
- System integration testing
- Responsive and compatibility testing



Once the tests are performed, our test engineers document the test results and share them with the clients, along with suggestions



Capture the following test metrics and ensure proper defect management and reporting

HOW ZUCI HELPED

Metrics	Description
Test coverage	Total Number of requirement Vs number of requirements covered through test cases
Test Productivity	No of test cases executed per day
Pass Yield	No of TCs passed/Total no of TCs Executed
DRE (Defect Removal Efficiency)	No of Defects found in ST / (No of Defects found in ST+ Post release Defects)
Defect Density	No of Defects in each module
COPQ	Rework effort due to post release defects

BLOCKERS AND SOLUTIONS



The client's development team had difficulties setting up automation assets since the revamping of code for automation might pose challenges to the existing system.

- To resolve these challenges, our automation engineers partnered with the client's development team to set up the automation that would cater to the future needs of the team.

TECH STACK

TestRail

 Selenium

 APACHE
JMeter™

TestNG

 slack

 SAUCELABS



Maven™

 Jira

 circleci



BrowserStack

 appium



Jenkins

A graphic with the text "BUSINESS OUTCOME" in white, bold, uppercase letters, set against a blue background with a network of white dots and lines.

483

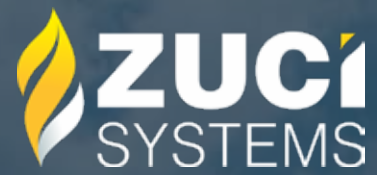
manual test cases created and executed

70

automation test cases created and executed

60

critical bugs identified



ZUCI GIVES YOUR TEAM QA SUPERPOWERS

SO, YOU CAN SPEND TIME BUILDING YOUR PRODUCT,
WITHOUT WORRYING ABOUT RELEASE SCHEDULES

30-min free consultation →



www.zucisystems.com



Chicago, USA
Brussels, Belgium
Chennai, India



US: +1 (214) 230-9824
Belgium: +32 477411912
India: +91 (44) 69178900



sales@zucisystems.com