CUSTOMER MANAGEMENT PORTAL – AUTOMATION TESTING CASE STUDY

CLIENT OVERVIEW

Our client is a global leader in mobile and digital advertising technology. Their unified monetization platform combines an ad server and a real-time bidding ad exchange to help publishers generate revenue through a plethora of digitally connected screen. Our client has one of the largest Ad server engines for publishing content. Apart from this, our client has a portfolio of products for ad exchange, optimization, content valuation, etc.

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KEY REQUIREMENTS

- Determine system functionality for appropriate bucketing of the data as per the categories and attributes of the incoming media.
- Functional automation testing for key functionalities of the portal to ensure performance of the reporting platform for modules like Monetization, Ad Server, Mobile etc.
- Thorough testing of integration and collaboration of the system with the end users of the system including both publishers and demand partners.
- Creating Sprint plan with bi-weekly sprint cycle to have timely execution and deliverables of different modules.
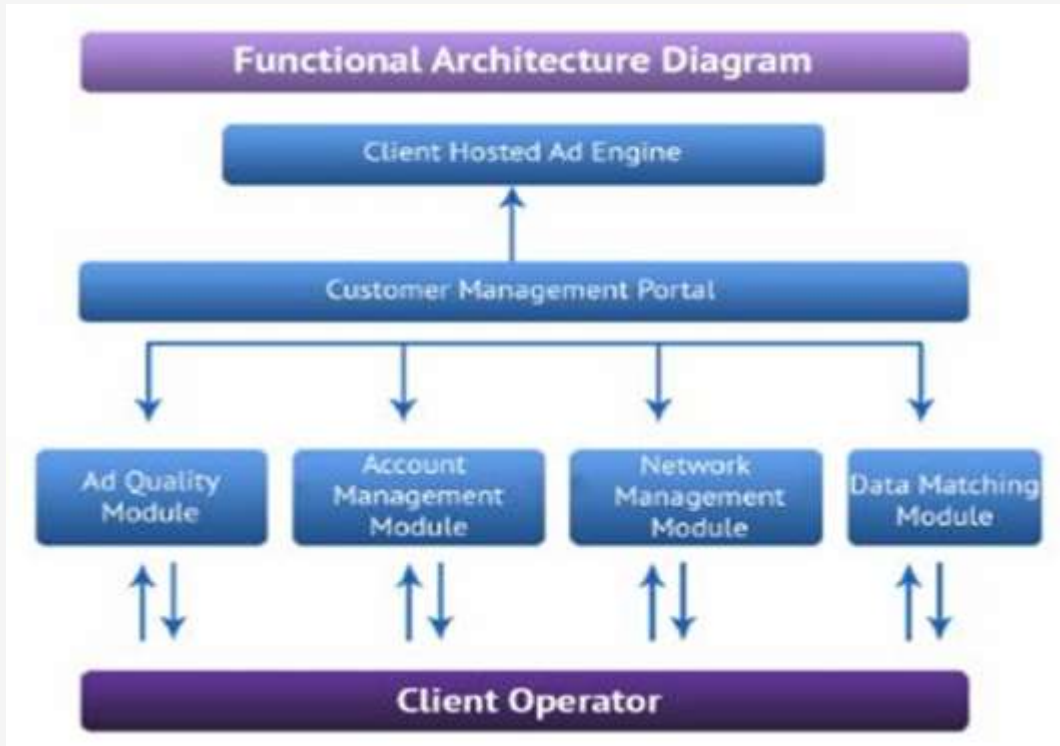
KEY CONTRIBUTIONS

- Prepared test plans in test case management system like Test Rails.
- Automated end-to-end configuration of external MicroStrategy reports like the Ad Server Reports, Bid Performance Reports etc.
- Integrated UI with the Vertica database and MySQL to check for consistency.
- Separated each page functionality with its own library and function keywords using Page object model.
- Used Robot framework for test cases repository and test execution.
- Developed MySQL library using Python to test UI and database integration scenarios.
- Extending existing framework to support Angular.js application without affecting existing test cases and maintaining same structure at library level.

KEY BENEFITS

- Increased efficiency of the clients product by automating almost 90% of the product screens

- Incorporating best practices and automation scripts led to quick time to market

- Improved the quality of the application through rigorous testing of end-to-end system functionality

- Improved customer service by 15-20% by allowing field personnel to access service data and take additional orders on-the-go

- Reduced backend process errors by about 30%

HIGH LEVEL ARCHITECTURE

TECHNOLOGY STACK

- Python
- JavaScript
- MySQL
- Vertica
- Java

- Git
- Selenium
- Bamboo
- TestNG
- Jira