Hewlett Packard Enterprise

2016 HPE Software Innovator Awards

Arul David, Cornerstone OnDemand, Inc.

Global SaaS talent management company uses HPE UFT for accelerated testing to rapidly introduce reliable and robust Web functionality

Honorable Mention

Transform to a Hybrid Infrastructure

Software
- HPE Unified Functional Testing (UFT)
- HPE Application Lifecycle Management (ALM)

High-level overview

HPE Software enabled Cornerstone OnDemand (CSOD) to:

- Rapidly introduce reliable functionality to customer posting page

- Eliminate testing of repeated objects by using a Document Object Model (DOM) search algorithm as an alternative to XPath

- Reduce test-development time by 90%

- Multiply time savings across 10 QA teams

- Efficiently manage automation scripts

- Enable dynamic Web pages and increase product quality

- Eliminate all post-deployment issues for one year (and counting)

- Complete testing requirements within agile sprints

- Accelerate delivery of new functionality to the market

- Eliminate QA bottlenecks to enable more rapid introduction of competitive features

Company

Cornerstone OnDemand is a global leader of cloud-based talent management software solutions. More than 23.8 million users across 191 countries rely on Cornerstone to maximize their potential, develop their skills and foster new levels of collaboration. Cornerstone empowers some of the world's leading organizations such as Starwood Hotels & Resorts, Walgreens, Commonwealth Bank of Australia, The Neiman Marcus Group, State of Nebraska, Save the Children, Turner Broadcasting System, Virgin Media, Maersk and Novartis to engage their workforces and leverage people performance for greater business results.

Contact

Arul David is a lead QA automation engineer at CSOD.

Business goals

Reduce the time required to test Web pages where Cornerstone clients post comments and provide product feedback.

Objects can be repeated many times on a single page, and creating test objects for each is exceptionally time-consuming for the QA team. Although the team uses XPath to identify elements, the process still required creating multiple objects based on the number of different locations an object appears on the page. For example, if the same object was repeated four times on a page, the team had to create four objects to test. The goal was to reduce the development and maintenance work associated with capturing an object repository. As a solution, QA created a DOM search algorithm as an alternative to using XPath.

The HPE UFT software makes this solution possible via the object repository and the ability to define custom parameters. Multiple parameters enable input of search to/from, search filter from/to and get string from/to. Parameterization inside the object repository using different properties allows identification of a single object although it appears multiple times in different locations. Using the DOM search algorithm as an alternative to XPath,

the team only has to create one object for testing, wherever and however many times that element appears on the page.

HPE Software products implemented

• HPE Unified Functional Testing (UFT)

• HPE Application Lifecycle Management (ALM)

Additional benefits

The DOM search algorithm can be used across the company's 10 QA teams that each maintain test scripts for some 100 objects.

The automated framework allows the Cornerstone team to quickly and more reliably introduce robust, engaging functionality on the company's posting page, enabling customers to form teams, create communities, share live feedback and maximize the value/utilization of their Cornerstone solutions.

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