

Marlabs Case Study



Client: A global leader in media and marketing solutions

Vertical: Media

Horizontal: Testing

Technology: Mac OS, x code 4.2 and Selenium

Functional and automated testing for a client in the media and marketing solutions domain

Abstract

The client is in the international news and information domain operating on multiple channels including the Internet, mobile, newspapers, magazines and TV stations. They publish 84 daily newspapers, including major national papers in the US, the nation's largest-selling daily newspaper, and more than 700 magazines and other non-dailies.

Marlabs planned and executed the functional testing across their Web and mobile platforms in an Agile project environment.

Client

Client is a leading US based News and Media Corporation comprising a diverse range of broadcast, digital, mobile, and publishing companies. These brands enable customers to connect with audiences through superior marketing services, specialized solutions, and personal reach.

Challenge

- Client faced challenges in optimizing offshore testing efforts during the agile sprint development methodology execution where things are changing very rapidly
- They needed a very productive team that can be embedded into their existing development team
- Their business priority was to reduce “Time to Market” by reducing the Testing Cycle time
- Testing had to be done across multiple OS environments and browsers
- They were looking for an offshore testing service model across manual testing, automation testing and mobile testing
- The applications had to be tested on different mobile devices: Galaxy Tab, Motorola Xoom, iPad 2, iPad 3, iPhone 4 and iPhone 4s, Android 4.0 Ice Cream Sandwich, HTC - Nexus and Android 4.1 Jelly Bean.

Marlabs' Solution

- Marlabs proposed an offshore team structure, which will be a part of each sprint and run scrum at offshore
- Onshore test lead conducted SCRUM meetings with the offshore QA team thereby improving the quality of deliverables and increasing the offshore ownership of user stories
- Selenium (open source) tool was used for test automation
- A Hybrid automation framework was designed using Selenium, which was easier to maintain and involved the following techniques:
 - Run the same script against multiple datasets and environment
 - Run the same script on IE , chrome and Firefox
 - Update only Test data sheets
 - Concurrent execution of test script using selenium grid, which reduces the execution time
- Resource structure was optimized across projects to provide more productivity
- Testing service was expanded across Manual, Automation and Mobile testing.

- Web applications were tested for cross-browser compatibility (IE , Chrome and Firefox) across Windows XP, Windows 7 and Mac OS desktops
 - Mobile testing was conducted for the apps on iOS and Android OS platforms
 - Devices covered in mobile testing are Galaxy Tab, Motorola Xoom, iPad 2, iPad 3, iPhone 4 and iPhone 4s, Android 4.0 Ice Cream Sandwich, HTC -Nexus and Android 4.1 Jelly Bean.

Benefits

- Marlabs owned the application knowledge and managed the end-to-end testing for each sprint
- Test execution was performed across multiple OS and browser combinations within the short sprint cycle due to increased testing efficiency
- Time require for sanity testing reduced
- Good returns on investment due to open source tools
- Enhanced confidence in product delivery
- Increased stability of the application
- Testing team productivity increased due to automation
- A number of critical and major defects have been identified by the offshore testing team.

Technologies

Perl, PHP, MySQL and Web HTTP/S, Mac OS, xCode 4.2, Selenium.



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