INFOSYS MASTERED: MARKETING SITES THROUGH TESTED, RESPONSIVE AND EVALUATED DEVELOPMENT

In a typical web development life-cycle, manual unit testing for browser compatibility, responsive design is cumbersome and error prone. In an extremely fast paced agile execution that is seen in current scenario, less time is offered for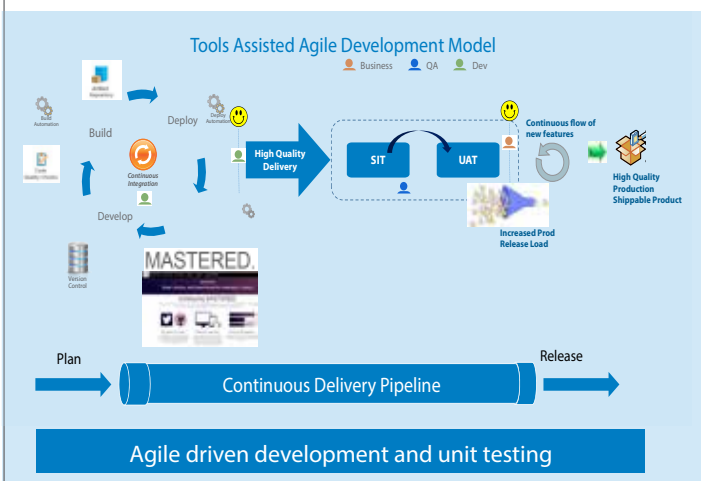 unit testing while new features are expected to be rolled-out in quick span of time. This subsequently leads to poor code coverage, increased defects, code re-work and delay in launch. The MASTERED framework addresses this issue with a simple and user-friendly framework solution which tests the HTML page across browsers and multiple break-points of responsive designs and functional behavior in an automated way. This framework not only overcomes the issues but also enhances the agile methodology to a newer level.

Benefits

MASTERED, helps in two core areas:

a) Integrated development and testing

b) Continuous delivery model

Saving

Activity	Current Capacity	MASTERED Capacity	MASTERED Savings
Testing responsiveness	15 pages/browser/day	15 pages/browser/1 hour	7 hrs.
Testing functionality	10 pages/day	10 pages/ 2 hrs.	6 hrs.
Cost Savings/ 50 Page			USD 1.6 million

Data points: Results in Turnaround time saving up to 15 PD, resulting in overhead saving & quick launch advantage of = 15 days*8 Hours* 2 FTE ~240 hrs. If you have ~50 sites expected total cost saving is US $ 1.6 million, without compromise on quality, and enhanced user experience

Advantages

Reduction in testing effort	Shippable straight out of development	Cost savings
Little input time required for framework execution	UI and functional validated quality product	Built on open source No special skills Rapid alignment of tool

Step 1: Developer provides the 'SPEC' or 'Test.js' file and uploads it to the UI

Step 2: The framework portal performs an auto-execution of the report and publishes log / error report via an SMTP server to a select universe of emails

Step 3: In cases where the 'framework.js' has to be updated, MASTERED framework team will work with the developer

Step 4: Final version of MASTERED reports across multiple browsers and break-points get published, with reports and detailed runtime logs in the identified locations

Capabilities

User Experience Validation: MASTERED ensures that all pages are pixel perfect and validated across break-points on multiple browsers

Functional Validation: MASTERED ensures that end-to-end functionality of website is thoroughly tested

Error Reporting: MASTERED provides detailed logs, with screenshot provided for UI and functional validation

Analytics: MASTERED provides detailed analytics and historical reports

Case Study

1. Largest Pharmaceutical company: Reduced lead time in unit testing for their fertility marketing site empowering 20% reduction in testing effort and increasing time to market

2. Largest North American automobile company: Lower defect leakage ratio for UI and functional testing for Dealer Portal, resulting in higher UAT satisfaction and reduction of time to market by 20%

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