Codeless Test Automation for Web Apps

Webinar by TestingWhiz

December 11, 2012 1PM EST

Agenda

- Functional Test Automation for Agile Teams

- Developing and Implementing Codeless Automation Frameworks

- Achieving High Test Coverage from Your Automation Scripts

- Re-using and Maintaining Codeless Frameworks
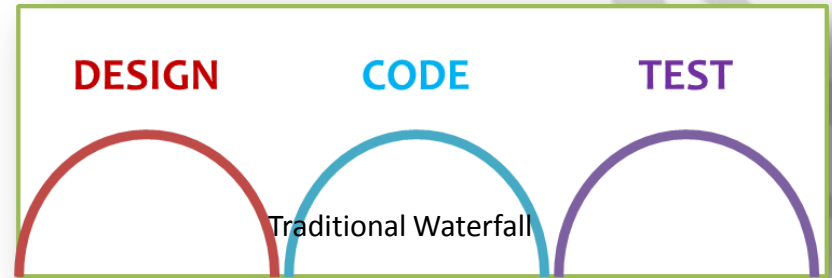
- Q&A

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- **Functional Test Automation for Agile Teams**

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- Q&A

Challenges Faced by Agile Testing Teams

- Evolving functional requirements

- Managing high frequency regression cycles

- Balancing speed and volume of testing

DESIGN   CODE   TEST

Traditional Waterfall

DESIGNCODETEST

Agile Development

"Keep responding to changes up to the last development phase."

Expectations of Product Managers

- Cope-up with ever shortening release life cycles with minimum functional defects.

- Deliver complete regression testing for entire application

- Testing on multiple environments e.g. QA, Staging and Production

- Managing process documentation and detailed defect reporting.

"Deliver quickest, easiest and almost magical test automation strategies."

The Ideal Functional Automation Solution

| 1 | **Save Time** | • Ability to write once and play multiple times |

| 2 | **Easy Learning Curve** | • More productivity with lower skill sets |

| 3 | **Reliable** | • Increased efficiency by reducing human errors |

| 4 | **Economical** | • Less requirements of testing resources |

| 5 | **Scalable** | • Provides reusability and repeatability
• Can program sophisticated tests using conditions and looping. |

Alternatives

Open Source

- Code driven
- Special Skills
- Highly Technical
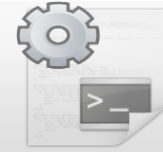- No Support

Commercial Tools

- High Initial Investment
- Cost of Implementation
- Special Training
- Maintenance

"8-Hour Day"

Coding Automation Scripts

Lunch And Foosball

Search for how to use Generics

Troubleshooting

Emails and Communication

The "Let Down" Stigma

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What are Codeless Automation Frameworks

- Key-Word Driven Testing

- Data Driven Testing

- Web Object & Class based intelligent Frameworks

Benefits of Codeless Automation Frameworks

1	**Saves Time**	• Saves 50% Implementation time & costs with test script recording engines
2	**Easy Learning Curve**	• 1/3rd Training time compared to traditional tools • No programming skills or code development required
3	**Reliable**	• Increased efficiency by reducing human errors
4	**Economical**	• Less requirements of testing resources
5	**Scalable**	• Highly re-usable script architecture with simple editing capability.

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Achieving High Test Coverage from Your Automation Script

- Scenario driven test cases to cover full length positive and negative data sets. e.g. Login scenario

- Simple and intuitive to perform same test over a large set of data. e.g. Test complexity rules for password field.

- Perform conditional analysis and add iterations. e.g. Nationality test

- Log failures for combinations applied to tool. e.g. Reporting of bugs in bug tracking tool with detailed steps to reproduce and attachment

- For all stable applications, ensure reliability by setting up a scheduled execution over a browser of your choice.

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Re-using & Maintaining Codeless Frameworks

- Re-usability

  - The biggest pain point for maintenance of scripts is copy pasted code

- Solution

  - Adapt a strategy that offers reusability e.g. methods

Questions ?

Thank You

- Watch out for our next webinar on :

  "TestingWhiz Integration with Test Management Tools"

- Visit us at www.testing-whiz.com

- Download a free trial and experience codeless test automation