

Title

Leveraging emerging testing technologies in agile teams

Speaker(s)

Dr Paul King / Asert

To whom is the presentation addressed?

Test managers, test automaters, test environment managers

Keywords

Automated testing, domain specific languages, model based testing, behaviour driven development

Abstract

Recent trends in software development have seen the introduction of new languages and frameworks; the adoption of new methodologies such as agile development; and an on-going evolution of underlying technologies to include non-relational databases, mobile platforms and cloud computing. Yet many organisations are still using legacy development and testing approaches and tools.

This talk looks at best practices, tools and techniques for harnessing the changes we are seeing without undue risks. We'll look at ways to harness development and testing approaches that have been difficult to apply using traditional tools and languages including:

- frameworks that greatly simplify development without throwing away enterprise hardened technology stacks
- capturing business logic as high-level rules in DSLs
- combinations & pair-wise testing
- the use of testing DSLs
- test data generation techniques

Along the way we will discuss:

- Some of the recent trends and frameworks in software development
 - How such tools can be incorporated into an agile workflow for timely feedback
 - Using a range of low-risk (primarily) open source languages and tools which allow systems and tests to be written that are valuable to not only the development team but also testers, analysts and the wider agile team members
 - Discuss some of the emerging testing libraries and tools for web, cloud and parallel development and testing
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Biography

Paul King leads ASERT, an organisation based in Brisbane, Australia which provides software development, training and mentoring services to customers wanting to embrace new technologies, harness best practices and innovate. He has been contributing to open source projects for nearly 20 years and is an active committer on numerous projects including Groovy. Paul speaks at international conferences, publishes in software magazines and journals, and is a co-author of Manning's best-seller: Groovy in Action.
