

Agile Testing: What Is Different And Why ☺

Introduction:

Agile and especially scrum has been a buzz word now a days. Most of the big IT brands have either already moved to scrum or in process of. Agile means a self-organized and cross functional team. In that case does a tester's role change while working on agile projects? How is testing different when done with agile projects? If you have such questions in mind, then this 2 days' workshop is aimed at familiarizing the participants with scrum methodology and testing methodologies with scrum.

Learning Objectives: The course will enable participants to ...

- Appreciate agile – why it originated, what problems of software projects can it address
- Familiarize with Scrum framework and terminologies
- Appreciate how and why scrum is different from traditional waterfall methods
- Explore how testing strategies differ in agile environment – agile testing quadrants
- Explore test automation – why it is needed and how to go about it
- Learn how and where does tester's role change on agile projects

Participants' profile:

- It would help if participants have worked on projects, project management background will be an advantage.
- Basic know-how about Agile would be nice to have but not a must requirement

Duration: 2 days

Course Outline:

Day	Session	What Is Covered	Method Followed
1	1	Introduction, expectation setting, agenda	
1	2	Agile PM <ul style="list-style-type: none"> • Understand concept of iterative and incremental development • How and why did it originate • What PM challenges it can address and how • Agile manifesto 	<ul style="list-style-type: none"> • Interactive discussion
1	3	Explore scrum framework in more detail <ul style="list-style-type: none"> • Scrum events • Scrum roles • Scrum artefacts 	<ul style="list-style-type: none"> • Interactive discussion
1	4	Requirements management <ul style="list-style-type: none"> • User stories – why and how • How this differs from traditional requirements gathering approach • What benefits it can bring • How test cases are discovered 	<ul style="list-style-type: none"> • Case study based • Activity based – participants to elicit requirements for a sample case study project
2	1	<ul style="list-style-type: none"> • What is agile testing? 	<ul style="list-style-type: none"> •

Day	Session	What Is Covered	Method Followed
		<ul style="list-style-type: none">• <i>How is it different</i>• <i>Agile testing mindset & Principles for agile testers</i>	
2	2	<i>Agile testing quadrants</i> <ul style="list-style-type: none">• <i>Technology facing tests that support team</i>• <i>Business facing tests that support team</i>• <i>Business facing tests that critique the product</i>• <i>Critiquing the product using technology</i> <i>Agile test automation strategy</i>	<ul style="list-style-type: none">• <i>Interactive discussion</i>
2	3 & 4	<i>Test Automation</i> <ul style="list-style-type: none">• <i>Why automate</i>• <i>Barriers to automation</i>• <i>Agile test automation strategy</i>• <i>What can, should not and will be hard to automate</i>• <i>Applying agile principles to test automation</i>	<ul style="list-style-type: none">• <i>Interactive discussion</i>
3	4	<i>Build automation framework overview</i> <ul style="list-style-type: none">• <i>Derive and automate BDD scenarios</i>• <i>Business focused cucumber feature file</i>• <i>Introduce page object and multi browser testing</i>• <i>Parallel test execution</i>• <i>Parameterizing and repeating tests from feature classes</i>• <i>Generating cucumber reports</i>	<ul style="list-style-type: none">• <i>Interactive discussion</i>

Out of scope:

- More advanced topics like tools and techniques for test automation, user stories, estimating stories, release or iteration planning tools and techniques, various project monitoring tools and techniques will not be covered
- Demonstration of any test automation tools hands-on will not be in scope

Note: This overall flow of the course is subject to change based on participants' interactions & queries.