PMP, PRINCE2-Practitioner, PMI-ACP, CSM, CSP

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, this 2.5 days' workshop is aimed at familiarizing the participants with scrum methodology and testing methodologies with scrum. It will also provide an hands-on experience of testing with some of the tools like Cucumber.

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
- Explore how testing strategies differ in agile environment agile testing quadrants
- Appreciate how and why scrum is different from traditional waterfall methods
- Explore concept behind TDD, BDD, ATDD why these concepts originated and how does it help
- Learn how and where does tester's role change on agile projects
- Experience an hands-on experience with a case study testing implemented with Cucumber

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: 2.5 days

Course Outline:

Day	Session	What Is Covered	Method Followed	
1	1	Introduction, expectation setting, agenda		
1	2	Agile PM Understand concept of iterative and incremental development How and why did it originate What PM challenges it can address and how Agile manifesto	Interactive discussion	
1	3	Requirements management User stories – why and how How this differs from traditional requirements gathering approach What benefits it can bring	 Case study based Activity based – participants to elicit requirements for a sample case study project 	
1	4	Estimating projects Agile estimation techniques like poker, T-shirt sizing, etc (size, effort and duration estimates)	 Case study based Activity based – participants to estimates requirements captured on previous day for a sample case study project 	

Agile Testing: It's Different ©

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Day	Session	What Is Covered	Mei	Method Followed	
		How it can help address challenge with uncertainty			
		associated with estimates			
		How is it different than traditional approach			
1	5	Planning projects	•	Case study based	
		Why up-front planning may not work	•	Activity based	
		How does agile planning work (planning onion)			
		Release and sprint planning overview			
		How it can help address challenge with uncertainty			
		associated with plans			
		How is it different than traditional approach?			
2	1	Explore scrum framework in more detail	•	Interactive discussion	
		Scrum events			
		Scrum roles			
		Scrum artefacts			
2	2	Agile testing quadrants	•	Interactive discussion	
		Technology facing tests that support team			
		Business facing tests that support team			
		Business facing tests that critique the product			
		Critiquing the product using technology			
		Agile test automation strategy			
2	3 & 4	How cucumber implements BDD	•	Hands-on session	
		Set up cucumber project			
		What is Gherkin language and its use in BDD			
		Preparing a feature file			
		Use of annotations and parameters, regular expressions			
		Data table overview			
		Background, scenario and examples in cucumber			
		HTML and JSON reports			
3	1 & 2	Build automation framework overview	•	Hands-on session	
		Derive and automate BDD scenarios			
		Business focused cucumber feature file			
		Introduce page object and multi browser testing			
		Parallel test execution			
		Parameterizing and repeating tests from feature classes			
		Generating cucumber reports			

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

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