

Stepping into Test - Programme

A Draft

- Module : Testing in an Agile Team
 - What is the Agile lifecycle
 - Roles within an Agile team
 - When does an Engineer in Test need to be involved
 - What are the different ceremonies in the current team - Retro, Planning, 3 Amigos ,etc.
 - Tools of the Trade : Jira, confluence
 - Ticket creation and "Definition of Done"
 - Estimation of tickets
- Module : Different types of Testing covered in a Story lifecycle preferably through ticket exercise
 - How to start testing a feature of the products, what are the steps to take - what kind of groundwork is involved to get started, when to get involved.
 - What is manual and automated acceptance testing.
 - Different techniques of Manual Testing
 - Example Apps at least 2 different Web apps to test before testing on a ticket
 - A ticket for testing one of our products
 - What is unit testing, integration testing
- Module: Testing Front End User interface
 - Concept of cookies
 - Caching
 - Sessions
 - Responsive web design: Testing Different
 - iFrames
- Module: Testing a product with RESTFul API interface
 - Fundamentals of RESTFul API , Parameters, Headers, response and request body used, Response codes
 - How to write test Scenarios for an API

- Tools used for Testing an API : Postman
 - Using Authenticated methods for an API like the Dev Cert
- Module: Writing Code
 - Write a Selenium Testcase
 - Using the IDE
 - Concepts of Page Objects
- Module: Git fundamentals
 - Concepts of a DVCS
 - Creating a repo
 - What do the commands used on a daily basis do
 - Recommended reading: First couple of chapters of Pro Git
- Module: Build tools
 - Building with Maven
 - Continuous integration with Jenkins
- Module: Using a Test Framework like Cucumber
 - Gherkin: Using scenarios, examples, background
 - How to write a feature file
 - Passing parameters through a feature file
 - Step Definitions and supporting code
- Module: Test Automation Exercise with Selenium and Cucumber JVM

Advanced Topics

- Concept of Test Pyramid
- Testing for Volume and Load
- Security Vulnerabilities