ASPROTUNITY
IT Consulting batteries included

email: info@asprotunity.com
web: www.asprotunity.com
phone: +44 (0) 207 788 7649

Acceptance Testing with Fit and FitNesse Training Course

Overview

Duration one or two days. If one day, the course will be split approximately in half day introduction, half day hands on. If two days, it will be split approximately in half day introduction, one and half days hands on.

This one course explains the concepts of automated acceptance testing using FIT and FitNesse. The focus is to give the attendees the necessary knowledge and hands on experience to get started automating their acceptance and system tests using FIT or FitNesse in their own projects.

The first part of the course is devoted to an introduction to the concepts of automated testing at the system level. The focus will be on a better understanding of what testing at the system level means, along with the conceptual framework necessary to write useful automated acceptance and system tests. There will be some examples using FIT (they will not require a full knowledge of the framework to be understood). The first part concludes with an introduction to the basics of FIT and FitNesse, which will be necessary during the second part of the course.

The second part is devoted entirely to an hands on exercise so that the participants can get a better grasp of how FIT and FitNesse work in practice.

The course can be tuned and refined depending on the needs of the people attending.

This course is available for Java and C#.

Who should attend?

This course is intended for those involved in writing system level tests, whether it be Testers, Developers, Business Analysts or Users. All roles have their part to play in writing system level tests at some time or other:

Developers who write hooks to make the system testable using FIT

Business Analysts and the Users have to define the acceptance criteria for the system

Professional Testers charged with ensuring overall system stability and conformance

All roles can benefit from understanding how to use FIT to automate some of their system level tests.

Prerequisites and setup

- One computer every three-four participants with a IDE installed (Eclipse, or Intellij for Java, or Visual Studio for C#)
- The FIT and FitNesse software will be provided. It will be installed on the computers first thing in the morning
- Ideally, the computers should be equipped also with the standard text editors used in the company to create documents (e.g, MS Word, Excel, OpenOffice, etc.)

Synopsis

Introduction

- Types of testing and the testing quadrants for Agile

System level automated testing

- Acceptance, system, and integration tests
- The need for automation
- Ubiquitous language
- Impact on system design
- What can and cannot be automated
- Who writes the tests?
- What needs to be tested? - Choosing your tests; Some performance considerations

From user story to test

- Definition of done
- How to test a user story
- How to refine a user story using test specifications

Introduction to FIT

- A first example
- FIT basics
- Practical exercise: writing a FIT test

FitNesse

- A first example reworked
- FitNesse basics
- FIT or FitNesse? — Advantages and disadvantages of using each
- Practical exercise: writing a FitNesse test

Maintaining your tests

- The importance of storing the tests with the code
- Configuration management and version control — FIT example, FitNesse example

Practical exercise: write and test a small system

- Define the requirements
- Define the acceptance criteria that will lead to the tests
- Write the tests along with the system

An example for the practical exercise can be provided, or it can be worked out together with the attendees. Depending on how many developers are in the room, the participants can be split in teams of developers, testers and users. If there are no developers, the instructor can be the developer, and, in that case, all attendees will work together on the same system.