

TheTestplace.com

Developing a Web Site Testing Regime

Description

This 2-day course teaches participants the key concepts and principles of testing web sites and web based applications

Format

2 days 50% lecture 50% lab exercises

Participants

The course is intended for participants that will perform or be responsible for web site testing.

Prerequisites

Delegates need good general computing experience and preferably should have had some experience in testing software

Working knowledge of Windows® or Linux®/Unix® operating systems

Presentation Requirements

The maximum number of delegates for the course is 12

A room that allows delegates to both work freely at their workstation and view a screen

Direct project from computer system for Tutor for display of slides and demonstration of Programming

PC to screen projector
Whiteboard or flipchart

Course Materials

Course notes, slides and exercises are supplied in Adobe Acrobat format files (suitable for PC, Mac, and Unix)

Lab exercises are supplied in text files (Unicode UTF-8)

Course Outline

Introduction

The strength and weaknesses of various software development lifecycles are considered and the application to Internet based application and complex commercial web sites.

Components of a Web Site Test Plan

Testing a commercial web site is a complex and difficult task. During the course we take a look at the major components that make up a test plan for a commercial web sites.

Compatibility Testing

This type of testing usually involves accessing a web site from a wide variety of browser and operating system combinations.

Functionality Testing

The purpose of functionality testing is to ensure that the web site performs as it was designed to.

Performance Testing

The term 'performance testing' is sometimes used synonymously with 'stress and load testing', but we usually web site performance (that is, page load times) during varying conditions

Database Testing

Most web sites of any complexity store and retrieve information from some type of database. Clients often desire that the connection between their web site and their database be tested in order to verify data and display integrity. There are several ways this can be performed, depending on the system's complexity and the client's needs. However, a database specialist is often required.

Localization Testing

There are two basic testing requirements when making sure a web site is available in all required countries:

1. Testing the internationalisation of the base product
 2. Testing the localized versions of an internationalised product.
- Issues such as the impact of 16 and 32 bit character sets and, the dangers and assumptions of English speakers are discussed

Stress and Load Testing

Load testing, a subset of stress testing, is verification that a web site can handle a particular number of con-current users, whilst maintaining acceptable response times. This type of testing necessitates the use of some sort of automated load testing tool such as Mercury's Load Runner. In order to perform such testing, an expert in the load-testing tool being utilized is required. In addition, the client needs a license to the test tool, which can be very expensive. Such projects are typically performed using a team of only one or two people, and typically last for several weeks. It is often necessary to run these projects at the client's location. If database and/or application servers are part of the system, it is sometimes necessary to provide experts in these fields to help the primary load tester.

On-Site Equipment Requirements

To deliver the course each delegate should have individual access to a system, the system shall have:

A Web browser with Internet Access (Netscape >= 6.1, IE >= 5.1, Opera >=5.0)

A text editor

Adobe Acrobat Reader

Account on the system that allows creation and deletion of files

Winzip or equivalent

Additionally it must be possible for the course materials including lab exercises to be transferred onto the systems from an ISO 9660 CD-ROM

If no suitable equipment is available then TFJ can arrange for the hire of equipment for the duration of the course.