

Nick Grattan Consultancy Ltd

we demistify SharePoint expert-led training proven consulting custom software

Training Specification: Developing Microsoft SharePoint Workflows using Windows Workflow Foundation (WWF)

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Overview

This **three day** training course teaches developers how to build workflows for Microsoft Office SharePoint Server (MOSS) 2007 and Microsoft SharePoint Services 3.0 using Windows Workflow Foundation (WWF) and Visual Studio 2008.

Prerequisites

Course participants should be familiar with Microsoft .NET coding techniques using C#, and developing using Visual Studio 2008. Course participants will receive a workbook containing exercises and fully worked examples in C#.

WINDOWS WORKFLOW FOUNDATION (WWF) OVERVIEW

The Windows Workflow Foundation Architecture. Sequential and State Workflows. Support for WWF in Visual Studio 2008. Domain Specific Languages (DSL). How WWF integrates with MOSS: Task and History Lists, managing workflow instances, associating workflows with lists/document libraries, site content types and list content types.

BUILDING A WF SEQUENTIAL WORKFLOW IN VISUAL STUDIO

Workflows, activities and the WWF Runtime. Creating a Workflow. Adding an OnWorkflowActivated activity, setting a correlation token and using SharePoint workflow properties. Logging to the Workflow History List. Creating a simple workflow that manages documents. Creating a task list for a workflow. Associating a workflow with a document library.

THE VISUAL STUDIO 2008 WORKFLOW DESIGNER

Using the Workflow Designer in Visual Studio 2008. Overview of standard activities such as: CodeActivity, WhileActivity, IfElse, Throw, FaultHandler, CallExternalMethod etc.

DEPLOYING WORKFLOWS IN MOSS 2007

Creating and deploying features for workflows. Debugging deployed workflows.

TASKS AND HUMAN INTERACTIONS

Creating and waiting on tasks. Creating a custom content type and custom columns. Building a Task Edit form. Using the CreateTask, CreatetaskWithContentType and OnTaskChanged activities. Using the CorrelationToken. Creating custom task edit forms.

INSTANTIATION (INITIATION) FORMS

Instantiation Forms explained. Writing the code behind for the Instantiation form, adding Submit and Cancel buttons. Attaching to a workflow. Creating Data Class structures and writing custom activities to retrieve the data.

ASSOCIATION FORMS

Coding Association forms (design and production) to be displayed when a workflow is associated with a document library. Setting workflow association form values. Creating the task and history lists.

STARTING AND MONITORING RUNNING WORKFLOWS

Using Microsoft.Windows.SharePoint.Workflow to start workflows and to monitor/control execution programmatically.

CUSTOM ACTIVITIES AND MICROSOFT SHAREPOINT DESIGNER WORKFLOWS

Overview of Microsoft SharePoint Designer workflows. Creating and deploying custom activities for use in SharePoint designer workflows.

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