MOC 50351 SharePoint 2010 Overview for Developers

Course Summary

Description

This course will teach you all the new development changes that were made to SharePoint 2010 including (Sandboxed solutions, LINQ, REST, Client Object Model, BCS, Workflows and Claims based authentication.

Objectives
At the end of this course, students will be able to:

- Sandboxed Solutions, RESTful services, LINQ and Business Connectivity Services

Topics

- Overview
- User Interface
- Visual Studio 2010
- Sandboxed Solutions
- LINQ and REST
- Client Object Model
- Business Connectivity Services
- Workflows
- Claims Based Authentication

Audience

This class is designed for anyone interested in getting an introductory look at the new development features of SharePoint 2010.

Prerequisites

Before attending this course, students must have:

- .NET Object Oriented programming and understanding of development in SharePoint 2007

Duration

Two days

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Course Outline

I. Overview

A. A simple introduction module.

After completing this module, students will be able to:

- Understand your course, classroom, classmates, facility and instructor.

II. User Interface

In this module we take a look at the new features of SharePoint 2010 from a user interface standpoint. This module will help you with navigating through the remainder of the modules and labs faster. Some things we will explore include the new Ribbon and UI aspects.

A. New SharePoint Features

Lab: User interface

- UI Improvements
- Create Page
- Ribbon
- Wiki Capabilities

After completing this module, students will be able to:

- Describe the new UI features of SharePoint sites
- Understand how to work with the Ribbon

III. Visual Studio 2010

In this module we are going to take a look at the new SharePoint project templates includes with Visual Studio 2010 and their many improved features!

A. Visual Studio 2010

Lab: Visual Studio 2010

- Explore SharePoint Project Templates
- Packaging and Deployment
- Advanced Deployment
- Server Explorer

After completing this module, students will be able to:

- Be familiar with the new Visual Studio 2010 interface
- What SharePoint project templates exists in Visual Studio 2010
- How to utilize the deployment capabilities of the templates
- How to fix common 64 bit development issues

IV. Sandboxed Solutions

In this module we are going to take a look at Sandboxed Solutions in SharePoint 2010.

A. Sandboxed Solutions

Lab: Sandboxed Solutions

- Explore Sandboxed Solutions
- Create and Test Sandboxed Solutions
- Explore Limitations of Sandbox Solutions
- Configure Sandbox Points

Lab: DeveloperDashboard

- Enable Developer Dashboard

After completing this module, students will be able to:

- How to create a SandBoxed Solution
- What the limitations are of SandBoxed Solutions
- What Resource Measures are and how to modify them

V. LINQ and REST

In this module we are going to take a look at the new REST and LINQ features of SharePoint 2010.

A. REST
B. LINQ

Lab: REST

- Utilize REST Services
- REST Service Reference
- REST List Service Calls (PUT, GET)
- REST Excel Service

Lab: LINQ

- LINQ Introduction
- Utilize LINQ For SharePoint
- Use SPMetal.exe

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Course Outline (cont'd)

After completing this module, students will be able to:

- How to use REST Services
- How to generate and use LINQ

VI. Client Object Model

In this module we are going to take a look at the three new Client Object Models available in SharePoint 2010!

A. Client Object Model

Lab: ClientObjectModel

- Explore Client Object Model
- Utilize Client Object Model (.NET)

Lab: ECMAScript

- JavaScript Object Model

Lab: SilverLight

- Utilize Client Object Model (SilverLight)

After completing this module, students will be able to:

- How to use the Client Object Model
- How to use the JavaScript Object Model
- How to use the Silverlight Object Model

VII. Business Connectivity Services

In this module we are going to take a look at the new Business Connectivity Services.

A. Business Connectivity Services

Lab: BCS

- Explore External Content Types
- Create a new External Content Type
- Create an External List

After completing this module, students will be able to:

- Understand how BCS works
- How to build new BCS applications
- How to Upgrade your older BDC applications

Workflows

In this module we are going to take a look at implementing workflows with SharePoint Designer 2010.

A. Workflows

Lab: ReusableWorkflows

- Create Reusable Workflows (Site/Global)
- Export a workflow to Visio
- Import a workflow from Visio
- Save as Template

Lab: ModifyOOBWorkflow

- Modify Out Of Box Workflows

After completing this module, students will be able to:

- Build workflows with SharePoint Designer 2010
- Understand how to edit built in workflows
- Implement logging in your workflows

VIII.Claims Based Authentication

In this module we are going to take a look at the new workflow features of SharePoint 2010.

A. Claims Based Authentication

Lab: ClaimsBasedAuth

- Programming with Claims
- Creating custom claims provider

After completing this module, students will be able to:

- How to work with Claims Based Authentications
- How to build a Claims provider

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