Change Log for 20486D, Developing ASP.NET Core MVC Web Applications

Contents

Purpose of this document

The purpose of this document is to call out the significant changes that have been made to the course from its most previous version. This document is meant to be used by the MCTs/Instructors before delivering the class or during the prep to understand what has changed from the previous version of this course.

This is not an Error Log or a supplement to the Course Materials. This is purely meant to provide additional context between the two versions of the course.

What you can expect in this document

This change log captures changes from the previous version in the following four main areas:

- Design (Outline)
- Lecture and Lab Content (Handbook, PPT, and LAK)
- Labs and demos
- Change Description for Learning Product Spec Changes

The revision descriptions are intended to be provided at a high-level and not at a detailed level, so that they give you an overall understanding of the topics that have changed and the reasoning behind the change.

For More Information

To view the current Change Log for this product, visit the Microsoft Learning Download Center, and then browse to the appropriate product folder, and then the product name.

For any queries, please write to support@mscourseware.com.

Change Description for Design (Outline)

This course went through an extensive update process that resembles a total rewrite of the content. The content was updated to use Microsoft .NET Core instead of .NET Framework 4.6. The content also includes updates to all relevant technologies. We highly recommend that you consider this course as a new course and go over the entire manual content and hands-on parts of this course in detail before delivering it for the first time.

Changes in all modules (content, labs, and demonstrations):

- Updated from Model-View-Controller (MVC) 5 to Microsoft ASP.NET Core MVC
- Updated from .NET Framework 4.6 to .NET Core 2.1
- Updated from Entity Framework 6 to Entity Framework Core

Changes in all modules (content):

- Several updates have been made to the content in all the modules.
- All the content that is not relevant anymore has been removed.
- All the content that is not accurate has been rewritten.
- A lot of new content has been added.
- The order of the modules and lessons has been changed.

Changes in all modules (lab):

- All the labs have been changed. Therefore, the labs are completely different from the labs in the previous version.
- The labs completely independent in this version. In the previous version, each lab started from where the previous lab ended.

Changes in all modules (demonstrations):

- All the demonstrations have been changed. Therefore, the demonstrations are completely different from the demonstrations in the previous version.
- The demonstrations are completely independent in this version. In the previous version, each demonstration started from where the previous demonstration ended.

Module 1:

- Added content on ASP.NET Core
- Added content on ASP.NET Core MVC
- Added content on Razor Pages
- Added content on Web API
- Added content on Entity Framework Core
- Added content on .NET Core

- Added content on .NET Standard
- Added content on Angular
- Added content on React
- Added content on Visual Studio Code
- Updated content on Microsoft Azure

Module 2:

- Added the topic, "Planning Accessible Web Applications"
- Added the topic, "Information Architecture"

Module 3:

- This is a newly added module and includes the following lessons:
    - Configuring Middleware
    - Configuring Services
    - Configuring Middleware and Services in ASP.NET Core

Module 4:

- Added the lesson, "Configuring Routes," which was in Module 7 in the previous version.
- Added the topic, "Configure Routes by Using Attributes"

Module 5:

- Added the topic, "Dependency Injection into Views"
- Added content on tag helpers
- Added content on view components

Module 6:

- Added the lesson, "Creating MVC Models," which was Lesson 1 of Module 3 in the previous version
- Added content on tag helpers

Module 7:

- Added the lesson, "Working with Data," which was lesson 2 of Module 3 in the previous version
- Added content on Entity Framework Core
- Added content on database providers
- Added content on configuration in ASP.NET Core
- Added content on migrations

- Added content on SQLite

Module 8:

- Added the topic, "Using Sections in a Layout"
- Added a topic on JavaScript, which was in Module 10 of the previous version
- Added the topic, "Using External Libraries"
- Added content on npm
- Added the lesson, "Using jQuery," which was in Module 10 in the previous version
- Removed content on jQueryUI
- Added the topic, "Client-side Validation by Using jQuery"

Module 9:

- This is a newly added module and covers the following:
  - Bootstrap
  - Less
  - Sass
  - Grunt
  - gulp
  - Flexbox

Module 10:

- Was Module 6 in the previous version
- Added the topic, "Working with Multiple Environments"
- Added the topic, "Logging in ASP.NET Core"

Module 11:

- Replaced content on Membership with content on Identity.
- Added the lesson, "Defending from Attacks," which was lesson 1 of Module 12 in the previous version.
- Added the topic, "Cross-Origin Requests"

Module 12:

- Added the lesson, "Implementing a Caching Strategy," which was lesson 2 of Module 9 in the previous version
- Added the topic, "Cache Tag Helper"
- Added the topic, "Distributed Cache"
- Added the topic, "Using the HTML5 Web Storage API"

- Added the lesson, "Two-Way Communication," which was lesson 2 of Module 14 in the previous version
- Updated content on SingalR
- Added the topic, "Additional SignalR Settings"

Module 13:

- Updated Web API 2.x to ASP.NET Core Web API
- Added the topic, "HTTP Services"
- Added the topic, "HTTP Messages"
- Added the topic, "Status Codes"
- Added the topic, "Action Methods and HTTP Verbs"
- Added the topic, "Binding Parameters to Request Message"
- Added the topic, "Control the HTTP Response"

Module 14:

- Was Module 15 in the previous version
- Updated Azure content
- Added the topic, "File Providers"
- Added the topic, "Azure Deployment Strategy"
- Added the topic, "Debugging a Microsoft Azure Application"
- Added the topic, "Design a Distributed Application by Using Microsoft Azure"
- Added the topic, "Design a Caching Strategy"
- Added the topic, "Security in Microsoft Azure"

Change Description for Lecture and Lab Content (Handbook, PPT, LAK)

The detailed demonstration steps and the lab high-level and detailed steps (LAKs) of this course are published on GitHub. Additionally, the AllFiles directory is available on GitHub. For all the demonstrations and labs in the course, you and the students need to refer to the steps on GitHub.

To access these resources on GitHub, go to: https://github.com/MicrosoftLearning/20486D-DevelopingASPNETMVCWebApplications

Change Description for Virtual Environment

There is no virtual environment and the course is to be run on the student's PCs.