

Developing Web Applications with ASP.Net MVC 5, C# and Visual Studio 2013

Instructor: Oguz Alpogez

***** Course description**

The course teaches web design and programming based on the MVC (Model-View-Controller) pattern with the latest design tools for hosting on Microsoft web and database servers. Entity Framework 6 will be used for data base access.

***** Course goals and objectives**

Students learn fundamentals of very creative, dynamic data-driven and interactive web site design with ASP.NET MVC 5, C#, LINQ, EF6 and Visual Studio 2013. Experiencing the most current and advanced technologies, students gain a competitive edge in employment and productivity. The course focuses on using the latest Visual Studio 2013 environment and the Microsoft.NET 4.5 framework. The course will enable the student with an extra edge and recognition in professional career. Real-world examples will be used. Students will discuss technology and Visual Studio 2013 features.

***** Course prerequisites**

Students will need basic understanding of HTML web page tags and web usage. No prior course is required.

***** Course Subjects**

Included state-of-the art topics are:

- * Visual Studio 2013
- * WebMatrix
- ^ Web Forms
- * MVC 4 and 5 (Model View Controller)
- * Razor
- * jQuery, KendoUI, Javascript
- * HTML5, CSS3, Bootstrap CSS Framework
- * REST, JSON, SOAP Web Services
- * Web programming for mobile tablet computers and smart phones
- * LINQ (Language Integrated Query), Entity Framework
- * SQL Server 2012
- * SQL Server Management Studio
- * Unit Testing Frameworks, NUnit
- * Azure Cloud Programming

***** Project Work**

Learning is based on hands-on, practical exercises. Web based projects will be created and posted online. The student will gain access to a production online web hosting provider for publishing his/her designs during class. Code exercises and projects will give major confidence for job interviews. The

student will be able to keep the codes and improve them for future designs. Online projects will help as live demonstration of accomplishments during job interviews. Hundreds of code samples will be shown and the student will be provided in-depth learning on nearly every aspect.

*** Grading and Attendance

Grading is based on attendance, classroom participation and project completion.

Attendance of 80% is required.

*** Required Textbooks

- Mobile ASP.NET MVC 5

By Eric Sowell

276 pages, Apress (November 29, 2013)

ASIN: B00H09JA8W

- Pro ASP.NET MVC 5

By Adam Freeman

832 pages, Apress (December 19, 2013)

ISBN-10: 1430265299

ISBN-13: 978-1430265290

Latest publications by most qualified authors.

We use most up-to-date books by highly qualified authors who are program managers on Microsoft ASP.NET teams.

*** Recommended reading

- ASP.NET Web API: Build RESTful web applications and services on the .NET framework

by Joydip Kanjilal

224 pages, Packt Publishing (December 19, 2013)

ISBN-10: 1849689741

ISBN-13: 978-1849689748