Building ASP.NET Web Forms Applications

Category: Software Development & Programming | **Vendor:** Various

Duration: 32.00 hours (4 days) **26.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

Gain the knowledge and skills you need to build dynamic web applications with ASP.NET Web Forms and Visual Studio. In this training course, you will leverage rapid application development techniques, and build n-tier web applications with efficient access to databases and sophisticated user interfaces that employ data- and model-binding, as well as data-source controls.

About This Course

Gain the knowledge and skills you need to build dynamic web applications with ASP.NET Web Forms and Visual Studio. In this training course, you will leverage rapid application development techniques, and build n-tier web applications with efficient access to databases and sophisticated user interfaces that employ data- and model-binding, as well as data-source controls.

Who Should Attend

This course uses Visual Studio 2013, but is useful to those using an earlier version

Prerequisites & Entry Requirements

General Prerequisites:

- Experience with a modern programming language, such as Java or a .NET language (Visual Basic, C#) at the level of: Course .Net Development Introduction to C# Programming (CPROG) C# Programming, or course Visual Basic Programming for .Net (VBP) Visual Basic Programming for .NET

- Familiarity with application development concepts, as well as the Windows graphical environment

- Have an understanding of client-side technologies, such as HTML, CSS, and JavaScript

You should know how to:

- Work with objects (call methods, set/read properties, write event-driven code)

- Create user interfaces in desktop or web applications

- Employ modern language constructs

Learning Outcomes

Upon successful completion of this course, participants will be able to:

- Build HTML5 web applications using ASP.NET and Visual Studio

- Design consistent User Interfaces (UIs) with Master Pages, user controls, and Web Form controls

- Secure access to the application using Web Forms authentication

- Create a more responsive UI with Ajax and the Web API

Detailed Course Outline

Getting Started with ASP.NET Web Forms

Introduction to Web Forms

- Constructing ASP.NET pages with Web Form controls

- Developing HTML5 web pages with Visual Studio

- Examining content with Page Inspector

Designing Web Forms

- Applying common Web Form controls

- Creating consistent layouts with Master Pages

- Sharing reusable content with Web User controls

Activating Web Forms

- Handling control events

- Sending e-mail from a web page

- Validating user input

Retrieving and Updating Data

Developing data-driven applications

- Connecting to a database with data source controls

- Binding data sources to Web Form controls

- Automating data access with GridView, FormView, ListView and DetailsView

- Utilising code-first Entity Framework and LINQ to Entities for data access

Modifying data

- Inserting, updating and deleting with DbContext

- Managing updates with two-way Model Binding

- Reporting errors and checking validity with ModelState

Architecting ASP.NET Web Applications

Creating multitier applications

- Implementing business logic in the middle tier

- Encapsulating validation logic with Data Annotations

- Binding to business objects with ObjectDataSource

Managing state in web applications

- Reading and writing cookies

- Storing user state in the session object

- Leveraging caching for performance and scalability

Implementing web security

- Authenticating users from the Internet

- Limiting access to authorised users

Constructing Responsive ASP.NET Pages with Ajax

Creating a richer UI with Ajax extensions

- Integrating Ajax with existing pages

- Increasing responsiveness with UpdatePanel

- Triggering Ajax from outside the UpdatePanel

Making custom Ajax requests with jQuery

- Writing and calling RESTful services with the ASP.NET Web API

- Leveraging jQuery and jQuery UI for DHTML

- Working with the $.get() and .ready() methods

Developing Mobile-Friendly Web Applications

Creating flexible Web Forms

- Repackaging existing content for mobile devices

- Reducing duplication with user controls and master pages

Harnessing jQuery Mobile

- Controlling layout with HTML5 data-* attributes

- Disabling Ajax navigation for maximum compatibility

- Displaying lists and collapsible content blocks

Building Sophisticated Web 2.0 Websites

Improving search engine rankings

- Simplifying URLs with friendlyUrls

- Retrieving URL segments

Integrating jQuery plugins

- Adding plugins to Web Form pages

- Enhancing the UI with the .rate() plugin

Leveraging the Geolocation API

- Finding user location with getCurrentPosition()

- Calculating distances with DbGeography

Deploying ASP.NET Web Applications

- Packaging for deployment

- Transforming the web.config for production

Skills You Will Learn:

- Build HTML5 web applications using ASP.NET and Visual Studio

- Design consistent User Interfaces (UIs) with Master Pages, user controls, and Web Form controls

- Secure access to the application using Web Forms authentication

- Create a more responsive UI with Ajax and the Web API

Frequently Asked Questions

Q: What delivery options are available for Building ASP.NET Web Forms Applications?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 4-day Building ASP.NET Web Forms Applications course provides up to 26.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Building ASP.NET Web Forms Applications training?

The training takes place over 4 day(s), with each day lasting approximately 32.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Building ASP.NET Web Forms Applications?

Yes, we provide corporate training, dedicated training, and closed classes for Building ASP.NET Web Forms Applications. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Building ASP.NET Web Forms Applications, .NET Development, BASPWFA

Q: Why choose Nexus Human for Building ASP.NET Web Forms Applications?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Building ASP.NET Web Forms Applications training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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