Beginning ASP.NET MVC 5 with Test Driven Development

Denna kurs ger din ASP.NET MVC 5 utveckling en god start i rätt riktning! Den plockar ut och förklarar vad du behöver känna till för att använda ramverket effektivt och utveckla testbara lösningar. Medan kursen har fokus på praktiska färdigheter, tas också tid att förklara viktiga begrepp, inklusive hur HTTP fungerar, MVC-designmönstre, TDD-arbetsflödet och dependency inversion.

**Audience**
- You are already reasonably comfortable with programming in C# and on the .Net platform.
- You have some awareness of HTML and CSS, and maybe a little JavaScript exposure too.
- However, you have little or no experience with ASP.NET MVC, and want to dive in and learn the things you need to know to use it effectively. Experience with NUnit or TDD is not required; the basic techniques will be introduced during the course.

**Prior knowledge**
You are already reasonably comfortable with programming in C# and on the .Net platform.

**Language**
The course is taught in English (Contact us if you prefer Swedish).

**Courseware**
Course material in English.

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**Dag 1**

**Web and MVC Fundamentals**
- How the web works: HTTP, servers, clients, statelessness
- A little history: ASP Classic, ASP.NET WebForms, other approaches
- The MVC pattern: models, views and controllers

**Hello World**
- Creating an ASP.NET MVC web application
- Our first controller and view
- Adding a basic model
- Convention over configuration

**Testing Fundamentals**
- What is Test Driven Development?
- Introduction to NUnit
- Writing our first controller test

**Routes**
- The relationship between routes and controllers
- Adding more routes
- Routes and linking
- Examining the request lifecycle

**Better Testing with Dependency Inversion**
- What is DI, and why does it matter?
- Refactoring towards DI
- Testing using hand-crafted stub objects
- Introduction to StructureMap
- Integrating StructureMap with ASP.NET MVC

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**Dag 2**

**The Razor View Engine**
The Razor approach
Loops and conditionals
Built-in helpers
Creating your own helpers
Layouts
Partial views
What NOT to do in a view

Introducing Forms
- Adding a form and posting to a controller
- FormCollection - often a last resort
- Parameter binding
- Model binding
- Forms and testing

Linking to a Database
- A short introduction to Entity Framework
- Entities as the model
- Testable approaches to data access
- MVC with CORS architectures
- Scaffolding

Validation
- Client-side vs. server-side validation
- Validation annotations
- Custom validation
- Validation and testing

Dag 3

JavaScript and Ajax Basics
- What is Ajax?
- Introducing jQuery
- The Ajax helper for partial page updates
- Unobtrusive JavaScript

Web API
- Introduction to JSON
- What is a RESTful service?
- Writing API controllers
- Understanding HTTP verb to method conventions
- Calling services from JavaScript
- Testing Web APIs

Security
- The web is a dangerous place
- XSS
- Direct Object References
- CSRF
- Authentication
- Authorization

Recensioner

(4.5)

Baseras på 712 recensioner
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