Getting started with MVC3

By Scott Hanselman

This document is an unofficial printable version of ASP.NET MVC 3 tutorial written by Scott Hanselman. This document is free and was edited by Gustavo Azcona to be shared with the developer community. It’s provided "as is" without warranty of any kind. Enjoy it!

Contents

Intro to ASP.NET MVC 3 3
What You'll Build 3
Skills You'll Learn 5
Getting Started 5
Creating Your First Application 6
Adding a Controller 10
Adding a View 15
Changing Views and Layout Pages 20
Passing Data from the Controller to the View 23
Adding a Model 28
Using NuGet to Install EFCodeFirst 28
Adding Model Classes 32
Accessing your Model's Data from a Controller 35
Strongly typed Models and the @model keyword 37
Creating a Connection String and Working with SQL Server Express 40
Adding a Create Method and Create View 47
Displaying the Create Form 47
Processing the HTTP-POST 52
Creating a Movie 54
Adding a New Field to the Movie Model and Table 57
Adding a Rating Property to our Movie Model 57
Managing Model / Database Schema Differences 59
Automatically Recreate the Database on Model Changes 60
Fixing the Precision of our Price 65
Adding Validation to the Model 68
Keeping Things DRY 68

Adding Validation Rules to the Movie Model 68

Validation Error UI within ASP.NET MVC 70

How Validation Occurs in the Create View and Create Action Method 71

Implementing Edit, Details, and Delete Views 74

Implementing an Edit View 76

Implementing a Delete View 78

Intro to ASP.NET MVC 3

This tutorial will teach you the basics of building an ASP.NET MVC Web application using Microsoft Visual Web Developer Express, which is a free version of Microsoft Visual Studio. Before you start, make sure you have the following installed using the Web Platform Installer.

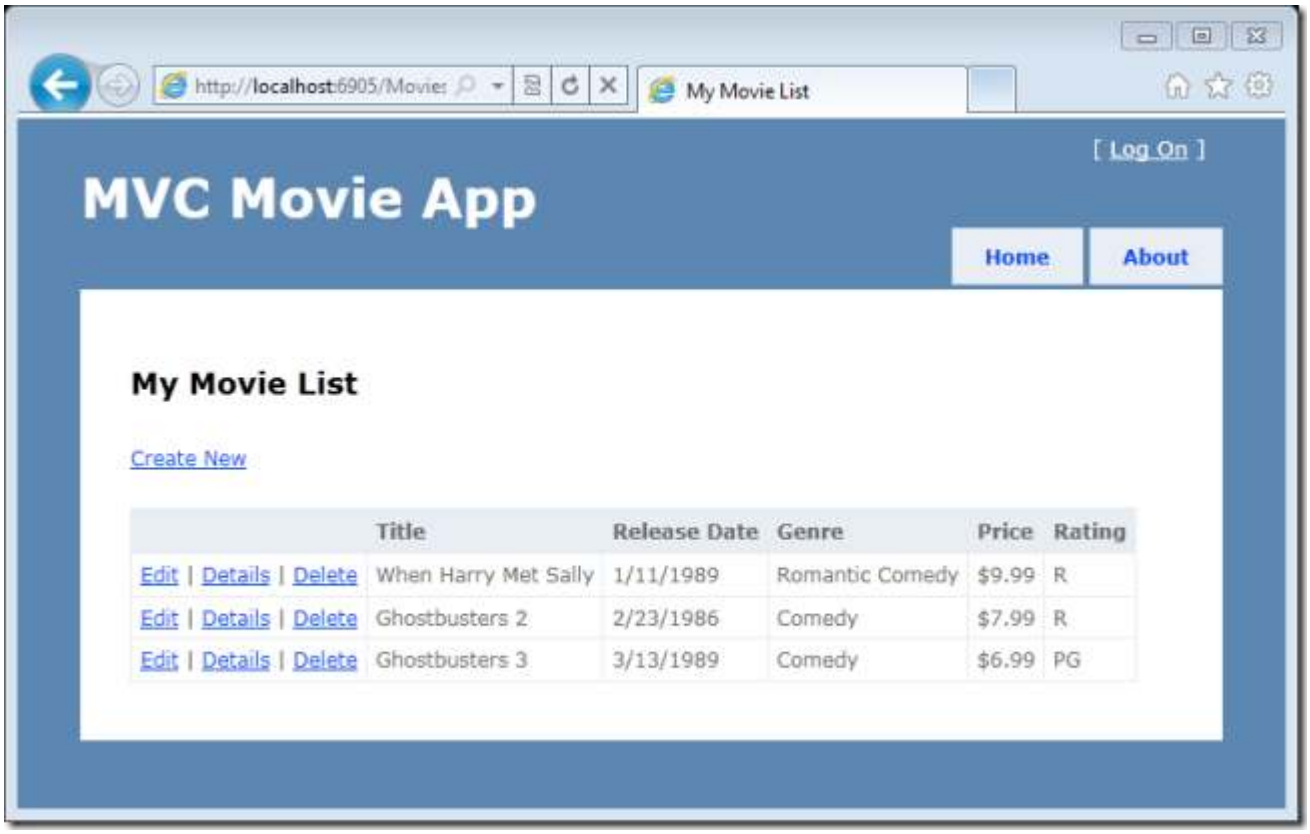
- Visual Studio Web Developer Express with SQL Express
- ASP.NET MVC 3
- SQL Management Studio

This tutorial will teach you the basics of building an ASP.NET MVC Web application using Microsoft Visual Web Developer 2010 Express, which is a free version of Microsoft Visual Studio. Before you start, make sure you've installed the prerequisites listed above. You can install all of them using the Web Platform Installer.

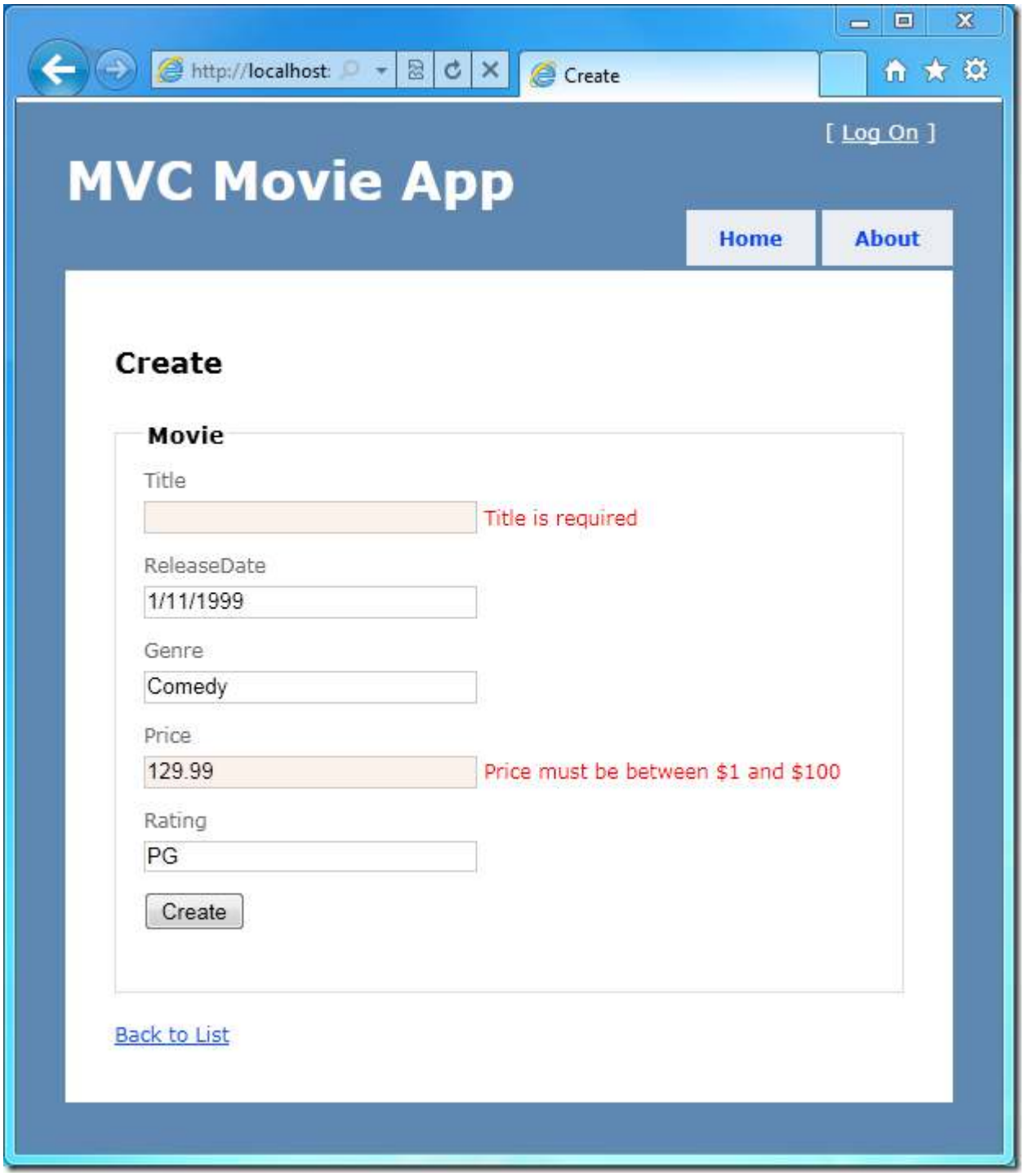
A Visual Web Developer project with C# source code is available to accompany this topic. Download the C# version here. If you prefer Visual Basic, switch to the Visual Basic version of this tutorial.

What You'll Build

You'll implement a simple movie-listing application that supports creating, editing and listing movies from a database. Below are two screenshots of the application you'll build. It includes a page that displays a list of movies from a database:



The application also lets you add, edit, and delete movies as well as see details about individual ones. All data-entry scenarios include validation to ensure that the data stored in the database is correct.


http://localhost
Create
[Log On]
MVC Movie App
Home
About
Create
Movie
Title
Title is required
ReleaseDate
1/11/1999
Genre
Comedy
Price
129.99
Price must be between $1 and $100
Rating
PG
Create
Back to List

Click here to download full PDF material