

4 Introduction to ASP.NET

4.1 Introduction

ASP.NET is a web application framework developed by Microsoft to allow programmers to build dynamic web sites, web applications and web services.

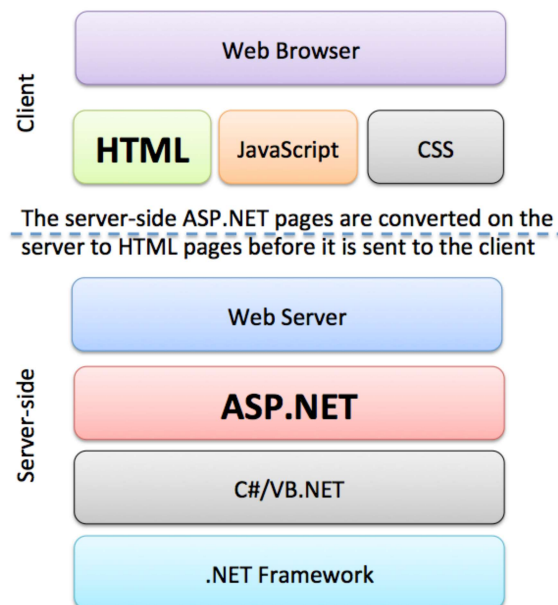
ASP.NET is a framework for creating web sites, apps and services with HTML, CSS and JavaScript.

Web Site: <http://www.asp.net>

ASP.NET supports different approaches for making web sites or web pages.

- ASP.NET Web Pages uses a single page model that mixes code and HTML markup.
- ASP.NET SPA (Single Page Application)
- ASP.NET Web Forms uses controls and an event-model for component-based development.
- ASP.NET MVC (Model View Controller) values separation of concerns and enables easier test-driven development.

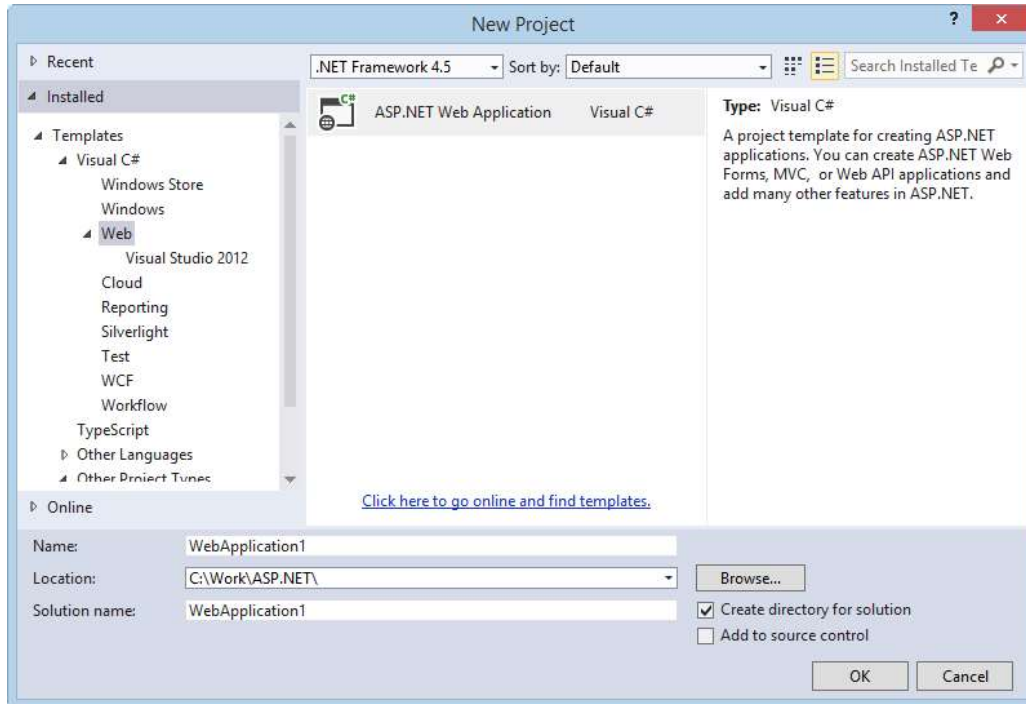
You can mix and match these techniques within one application depending on your needs.



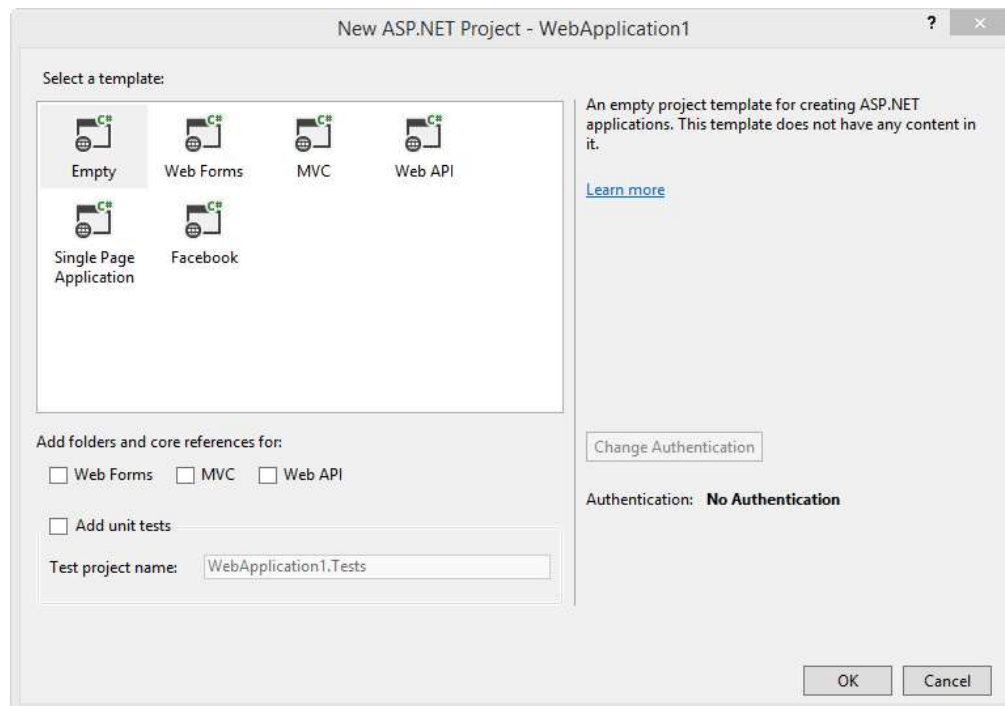
Video: <http://www.asp.net/aspnet/overview/making-websites-with-aspnet/making-websites-with-aspnet>

New Web Project Dialog:

Select Project Name, Location and Solution Name.



Next, select the template you want to use.



4.2 ASP.NET Web Pages

In ASP.NET Web Pages you include server code directly into the HTML syntax, similar to PHP and Classic ASP.

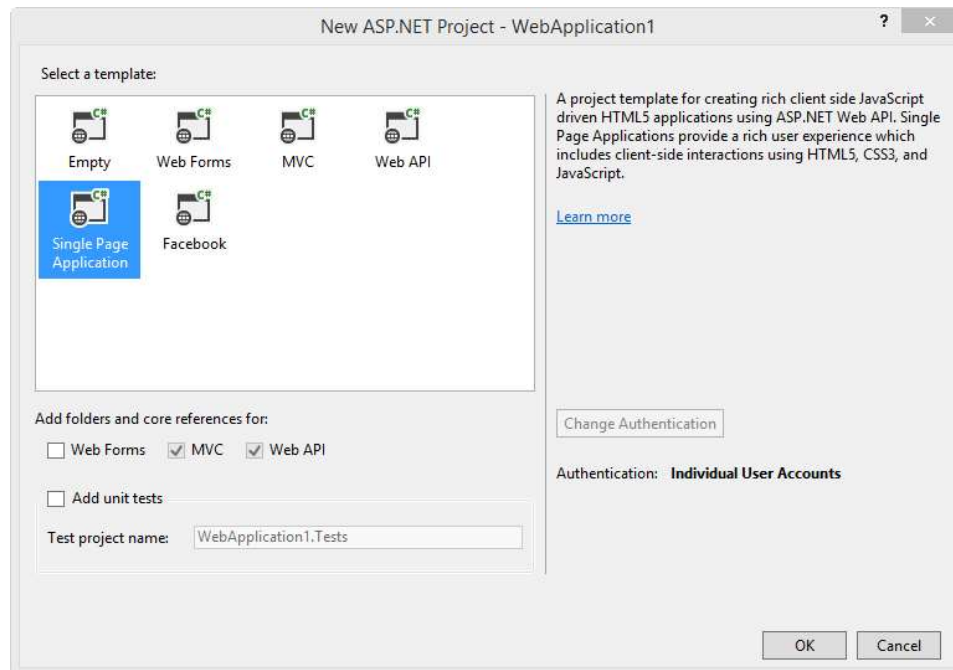
ASP.NET Web Pages uses Single Page Model (The server-side code is mixed in between the HTML). It uses the **Razor** syntax (.cshtml files)

A tool called Microsoft WebMatrix is optimized for this development model, but you can also use Visual Studio if you want to.

<http://www.w3schools.com/aspnet>

4.3 ASP.NET SPA

SPA – Single Page Application



For more information: <http://www.asp.net/single-page-application>

4.4 ASP.NET MVC

MVC – Model - View – Controller

A new development model where you split your development into 3 parts/components:
Models for Data, Views for Display and Controllers for Input.

4.5 ASP.NET Web Forms

ASP.NET is similar to the desktop development model used in WPF. GUI (*.aspx files) and Code (*.aspx.cs) is separated.

In this document we will focus on ASP.NET Web Forms.