



Professional Expertise Distilled

ASP.NET Web API

Build RESTful web applications and services
on the .NET framework

Master ASP.NET Web API using .NET Framework 4.5 and
Visual Studio 2013

Joydip Kanjilal

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ASP.NET Web API

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Credits

Author

Joydip Kanjilal

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About the Author

Joydip Kanjilal is a Microsoft Most Valuable Professional in ASP.NET, a speaker, and the author of several books and articles. He has over 16 years of experience in the IT industry, with more than 10 years using Microsoft .NET and its related technologies. He was selected as the MSDN Featured Developer of the Fortnight a number of times and also as the Community Credit Winner by www.community-credit.com several times. He has authored the following books:

- *Visual Studio Six in One* (Wrox Publishers)
- *ASP.NET 4.0 Programming* (Mc-Graw Hill Publishing)
- *Entity Framework Tutorial* (Packt Publishing)
- *Pro Sync Framework* (APRESS)
- *Sams Teach Yourself ASP.NET Ajax in 24 Hours* (Sams Publishing)
- *ASP.NET Data Presentation Controls Essentials* (Packt Publishing)

He has also authored more than 250 articles for some of the most reputable sites, such as www.msdn.microsoft.com, www.code-magazine.com, www.asptoday.com, www.devx.com, www.ddj.com, www.aspalliance.com, www.aspnetpro.com, www.sql-server-performance.com, and www.sswug.com. A lot of these articles have been selected at www.asp.net—Microsoft's official website on ASP.NET.

He has years of experience in designing and architecting solutions for various domains. His technical strengths include C, C++, VC++, Java, C#, Microsoft .NET, Ajax, WCF, REST, SOA, Design Patterns, SQL Server, Operating Systems, and Computer Architecture.

For more details, please refer to the following links:

- **Blog:** <http://aspadvice.com/blogs/joydip>
- **Website:** www.joydipkanjilal.com
- **Twitter:** <https://twitter.com/joydipkanjilal>
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About the Reviewers

Santhosh Aravalli has over 10 years of programming experience in working with Microsoft technologies. In his professional career, he has developed solutions ranging from enterprise web applications to SOA applications, primarily using the Microsoft.NET platform. He has worked across many industry domains, including financial, mortgage, retail, and logistics companies in Chicago and the Los Angeles metro area. He has numerous industry certifications, including MCAD, MCTS, and MCPD and is on his way to get his MCSD shortly. He graduated from the Kakatiya University in India with a degree in Computer Science & Engineering.

In his spare time, he practices meditation, collects aphorisms, visits the library, watches TED Talks, and works on his pet projects.

Visit his blog at <http://visualstudio99.blogspot.com> or contact him at [<saravalli9@gmail.com>](mailto:saravalli9@gmail.com).

Chandana N. Athauda is currently employed at Brunei Accenture Group (BAG) Networks, Brunei. He serves as a Technical Consultant and focuses on adopting new technologies toward solid solutions. He has been working professionally in the IT industry for more than 12 years (he's also an ex-Microsoft Most Valuable Professional (MVP) and Microsoft Ranger for TFS). His roles in the IT industry have spanned the entire spectrum from programming to technical consulting. Technology has always been a passion for him. In his spare time, Chandana enjoys watching association football.

If you would like to talk to Chandana about this book, feel free to write to him at [<info@inzeek.net>](mailto:info@inzeek.net) or tweet him at [@inzeek](https://twitter.com/inzeek).

I dedicate this book to my son, Binuk, and also in memory of my father, Samson.

Anand Narayanaswamy, an ASPInsider, works as a freelance writer based in Trivandrum, Kerala, India. He was a Microsoft Most Valuable Professional (MVP) from 2002 to 2011 and has worked as the Chief Technical Editor for www.ASPAlliance.com for a period of five years.

Anand has worked as a technical editor for several popular publishers, such as Sams, Addison-Wesley Professional, Wrox, Deitel, Packt Publishing, and Manning. His technical editing skills have helped the authors of *Sams Teach Yourself the C# Language in 21 Days*, *Core C# and .NET*, *Professional ADO.NET 2*, *ASP.NET 2.0 Web Parts in Action*, and *Internet and World Wide Web (Fourth Edition)* to fine-tune the content.

He has also contributed articles for Microsoft's Knowledge Base, www.c-

sharpcorner.com, www.developer.com, and www.codeguru.com, and has delivered podcast shows.

Anand runs his own blog at Learnxpress (www.learnxpress.com) and provides web hosting (www.netans.com) and blog installation services.

Pavel Volgarev is a software engineer with several years of experience in working with Microsoft technologies and developing for the Web. The majority of his time includes working with languages and technologies such as C#, ASP.NET MVC, RESTful Web Services, as well as HTML5-related APIs and Rich Internet Applications (RIA). He is also very keen about web design, UX, interaction design, and typography.

Prior to joining Infusion, Pavel was working as a System Architect, evolving and improving one of the finest CMS and e-commerce systems in Denmark and Europe.

Apart from being a developer, Pavel is also very passionate about blogging, public speaking, as well as startups and entrepreneurship. Pavel's complete profile is available at <http://volgarev.me>.

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Preface

ASP.NET Web API is a light-weight, web-based architecture that you can use to build web services that use HTTP as the protocol. This book is a clear and concise guide to the ASP.NET Web API Framework, with plenty code examples. It explores ways to consume Web API services using ASP.NET 4.5, ASP.NET MVC 4, WPF, and Silverlight clients.

What this book covers

[Chapter 1](#), *Understanding Representational State Transfer Services*, provides an introduction to the concept of REST and its related terminologies.

[Chapter 2](#), *Understanding Resource and Service Oriented Architectures*, explores Resource Oriented Architectures and discusses the differences between ROA and SOA.

[Chapter 3](#), *Working with Restful Services*, discusses the basics of implementing RESTful services in .NET and the necessary tips and techniques.

[Chapter 4](#), *Consuming Restful Services*, discusses how RESTful services can be consumed. It also discusses the guidelines and best practices involved.

[Chapter 5](#), *Working with ASP.NET 4.5*, discusses how we can work with ASP.NET 4.5 and the Web API.

[Chapter 6](#), *Working with Restful Data Using Silverlight*, discusses how we can work with RESTful services with Silverlight client.

[Chapter 7](#), *Advanced Features*, discusses some advanced concepts in the Web API and the best practices to be followed when using WCF and ASP.NET Web API.

[Appendix](#), *Library References*, discusses the popular REST-based Service Frameworks and APIs, how we can get started using Visual Studio 2013 IDE, and contains a reference to the Web API class library.

What you need for this book

- Visual Studio 2013
- SQL Server 2008 R2 / SQL Server 2012

Who this book is for

This book is for professionals who would like to build scalable REST-based services using the .NET 4.5 Framework by leveraging the features and benefits of the Web API Framework.

Conventions

In this book, you will find a number of styles of text that distinguish among different kinds of information. Here are some examples of these styles, and an explanation of their meaning.

Code words in text, database table names, folder names, filenames, file extensions, pathnames, dummy URLs, user input, and Twitter handles are shown as follows: "The **Body** section of the SOAP request contains the actual XML request object that is sent."

A block of code is set as follows:

```
<SOAP: Envelope>  
  <SOAP: Header>  
  </SOAP: Header>  
  <SOAP: Body>  
  </SOAP: Body>  
</SOAP: Envelope>
```

New terms and **important words** are shown in bold. Words that you see on the screen, in menus, or dialog boxes for example, appear in the text like this: "Click on the **Restart Now** button to restart your system and complete the installation of Visual Studio 2013."

Note

Warnings or important notes appear in a box like this.

Tip

Tips and tricks appear like this.