Enterprise Application Development with C# 10 and .NET 6

Enhance your C# and .NET skills by mastering the process of developing professional-grade web applications

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BIRMINGHAM—MUMBAI

WebStorm Essentials

Second Edition

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To my mother, Eda Schwartz, and to the memory of my father, Zeev, for their sacrifices and for exemplifying the power of determination. To my wife Orit for being my loving partner throughout our joint life-journey

– Stefan Rosca

To my sons Ben and Yoav for showing me how talent and creativity evolve. To Tsippi and Shlomo Bobbe for their love, support, and inspiration

– Den Patin

Foreword

I have known and worked with Pawel Glowacki for more than 16 years. Pawel is one of the world-wide Delphi community leading experts. In this book, Expert Delphi, Pawel takes you on a learning journey that started in the early 1980s with Compas Pascal, Poly Pascal, and Turbo Pascal. For more than 20 years, Delphi has continued to evolve to meet the needs of developers around the world. During most of this time, Pawel has been a key team member and advocate for the continuous innovation of the compilers, frameworks, runtime library, integrated development environment, and tool chain, allowing developers to easily build applications across desktop, server, mobile, internet, and cloud platforms.

In his presentations and examples, Pawel shows you how easy it is to create a wide range of applications using SQL/NoSQL databases, XML, and JSON. Pawel also helps developers create multitier applications using the latest technologies, including REST.

With Expert Delphi, you'll learn the best practices for writing high-quality, reliable, and maintainable code with Delphi's Object Pascal language and component architecture. After you complete Pawel's book, you'll understand how to take full advantage of mobile operating systems, frameworks, and hardware capabilities, including working with sensors and the Internet of Things.

Beyond developing apps for desktops and smartphones, you'll learn how to quickly and easily integrate with cloud services and data using REST APIs and JSON.

In Expert Delphi, Pawel encapsulates the knowledge gained through years as a world-class Delphi engineer, an entertaining presenter, a community leader, and a passionate advocate. With his words, step-by-step instructions, screenshots, source code snippets, examples, and links to additional sources of information, you will learn how to continuously enhance your skills and apps.

Become a developer superhero and build stunning cross-platform apps with Delphi.

David Intersimone "David I"

Vice President of Developer Communities, Evans Data Corp. and Embarcadero Community MVP.

Contributors

About the author(s)

Stefan Rosca is a lead design technologist at Method, an experience design studio, with a focus on the intersection of design and artificial intelligence, working on a variety of projects ranging from wearables to assist medical staff during a surgery to a health assistant chatbot. Prior to this, Stefan was a technical director at Masters of Pie, a digital production studio focused on designing and developing virtual reality (VR) and augmented reality (AR) experiences, and premonitory developing tools for engineers and creatives.

I want to thank the people who have been close to me and supported me, especially my wife Gladys and my parents. -750 character limit including spaces

Den Patin has been working in the IT industry since 2000. He specializes in Java EE and JBoss, and has collaborated with Apache, Alfresco, Atliassian, EXo, and JBoss communities on several open source products for many years. He lives in Italy and collaborates with leading consulting companies for design and implementation of applications for both government and private companies dealing with information, finance, and transport. Abroad, he is known for his interventions at the Daily Telegraph in portals. He brings projects such as Wildfly, Alfresco ECM, Activiti, JGroups, Arquillian, Exo Portal, Solr, Infinispan, JBoss Portal ,Gatein, Jira, and Confluence, and manages Vige, an open source community specializing in open government and smart cities. He is one of the authors of the Gatein Cookbook, showing Gatein's portal and how to develop portlets with it, published in 2012 by Packt. -750 character limit including spaces

I would like to first and foremost thank my loving and patient wife and son for their continued support, patience, and encouragement throughout the long process of writing this book. Thanks also to the Masters of Pie and Method teams for their generosity with their equipment--obviously a critical component for this book.

About the reviewer(s)

Vangos Pterneas helps innovative companies increase their revenue using motion technology and virtual reality. He is an expert in Kinect, HoloLens, Oculus Rift, and HTC Vive.

Microsoft has awarded him with the title of Most Valuable Professional for his technical contributions to the open source community. Vangos runs LightBuzz Inc, collaborating with clients from all over the world. He’s also the author of Getting Started with HTML5 WebSocket Programming and The Dark Art of Freelancing.