

DEVELOPING WEB-ENABLED DECISION SUPPORT SYSTEMS

Using Access, VB .NET, and ASP .NET

ABHIJIT A. POL AND RAVINDRA K. AHUJA

Developing Web-Enabled Decision Support Systems is a comprehensive book that describes how to build data-driven, Web-enabled decision support systems using a Microsoft Access database, VB .NET, and an ASP .NET framework, and illustrates it using several case studies arising in Operations Research, Industrial Engineering, and Business. The book contains five parts:

PART I—PRINCIPLES OF GOOD DATABASE DESIGN: This part of the book covers entity-relationship diagrams, creating relational databases, and normalizing databases.

PART II—DATABASE DEVELOPMENT WITH MICROSOFT ACCESS: This part describes how to create tables using Microsoft Access, establish relationships between tables, and manipulate tables using Access queries or using Structured Query Language (SQL).

PART III—WINDOWS APPLICATION DEVELOPMENT WITH VB .NET: The topics for this part include the Visual Studio development environment, object-oriented and visual programming, database connectivity using ADO .NET, and Crystal Report .NET.

PART IV—WEB APPLICATION DEVELOPMENT WITH ASP .NET: This part illustrates the process of developing Web applications by using HTML and ASP .NET.

PART V—CASE STUDIES: This part presents several case studies of decision support systems arising in different application settings including Online Book Store, Portfolio Management and Optimization, and Television Advertisement Allocation.

Each topic covered is illustrated through examples and hands-on tutorials. Each chapter contains several hands-on exercises for additional practice. This book is ideally suited as a textbook but can also be used as a supplementary reference book or a self-study manual. The book Web site, www.dssbooks.com, contains supplementary material for students and instructors including additional case studies.

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