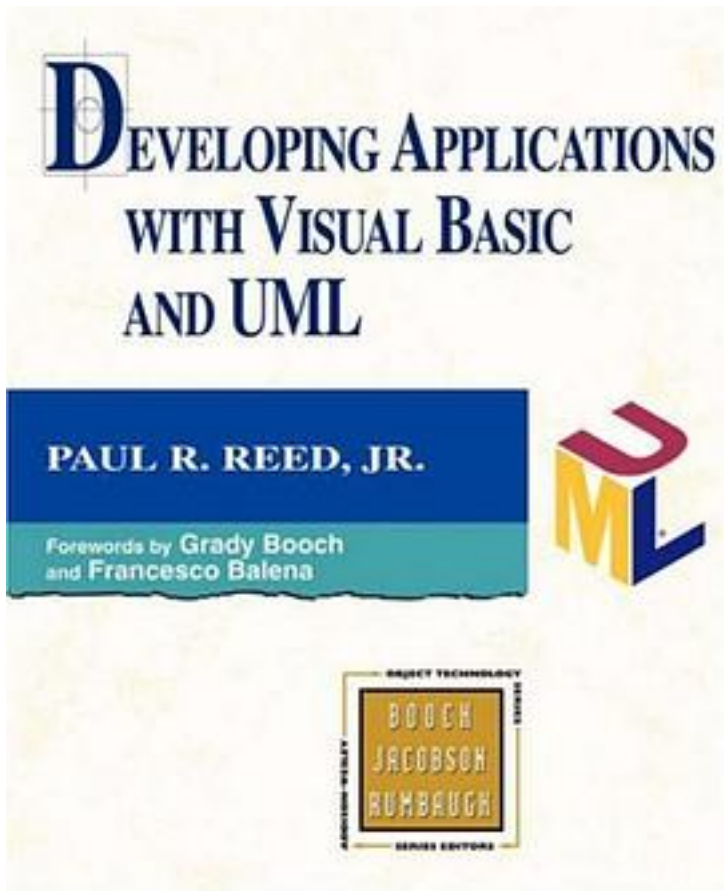# Developing Applications with Visual Basic and UML

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An essential resource for Visual Basic (VB) programmers who want to develop applications that are both resilient and robust, Developing Applications with Visual Basic and UML describes a proven development process for designing and

implementing object-oriented client/server applications in VB using the Unified Modeling Language (UML). Guided by his own experiences as a developer applying UML and VB, the author provides clear explanations of the fundamentals of UML while also examining and illustrating the often misrepresented object-oriented properties of Visual Basic. In addition, the book incorporates in-depth information on developing VB applications utilizing DNA concepts, incorporating technologies such as DCOM and MTS, and integrating Web tools such as ASP, VB Script, and JavaScript to Internet-enable Visual Basic applications. A significant case study runs throughout the book, leading the reader through the lifecycle of a projectofrom requirements analysis to modeling and prototyping through finalizing the architecture and generating code. Through this study, the author demonstrates the design benefits of UML and shows how to translate a UML specification into Visual Basic code. The author includes detailed coverage of the following topics: *Uncovering the events for which an application must be responsible *Modeling use cases with UML *Using Rational Rose to manage UML artifacts *Translating the object-based UML class diagram to a relational design supported by SQL Server or Oracle *Transitioning from classes and use cases to the UML's dynamic models, the sequence and collaboration diagrams *Mapping UML to Visual Basic deliverables *Generating code from the UML class diagram *Distributed technology solutions based on Distributed Internet Architecture (DNA) using Distributed Component Object Model (DCOM) and Microsoft Transaction Server (MTS) *Web-enabling VB applications using Active Server Pages (ASP), VBScript, JavaScript, and Microsoft's Visual InterDev With the information and expert techniques presented in this book, readers can significantly enhance their Visual Basic programming skills as well as their overall understanding of how an effective development process impacts the quality of the final application. 0201615797B04062001

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