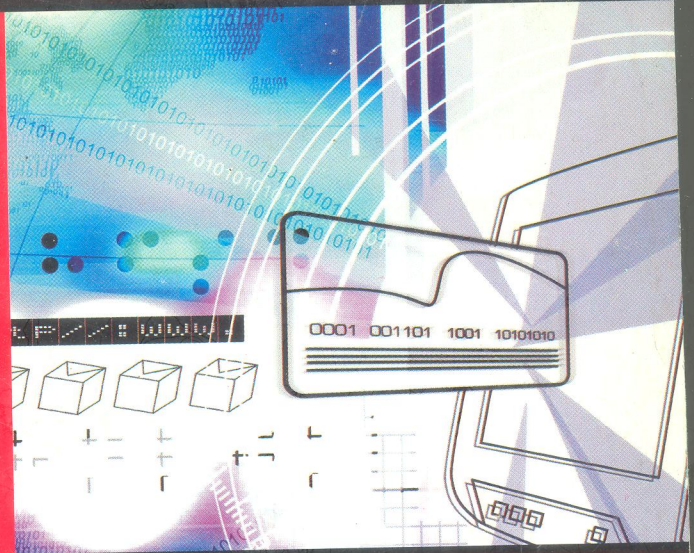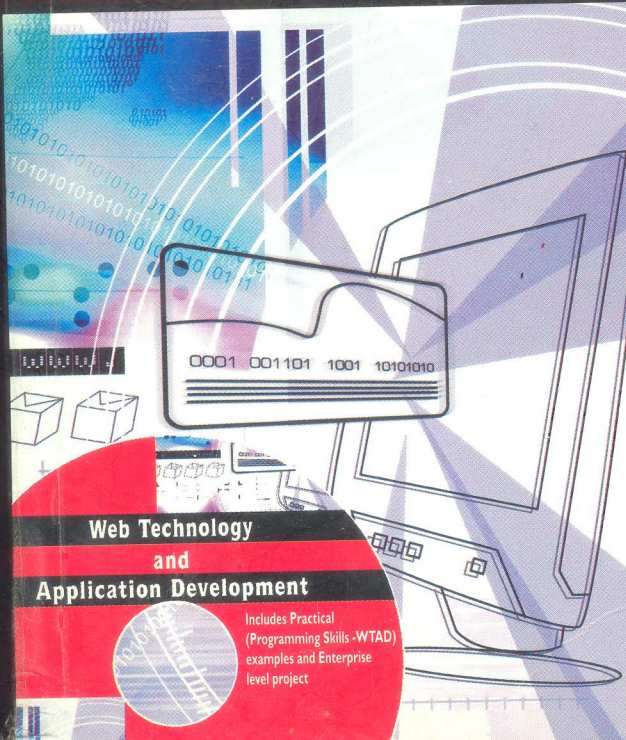**Includes Practical
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Web Technology

and

Application Development

The book covers:

» Introduction to HTML

» Servlet Basics

» Handling Client Request Form Data

» Generating the Server Response

» Handling Cookies

» JSP Basic Syntax

» Integrating Servlets and JSP in a Web Application

» Accessing Databases with JDBC

» Structure of Web Applications and the Role of Deployment

» New Features of Servlets 3.0

» Understanding Struts Framework

Web Technology
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Web Technology and Application Development

This book helps you to learn how Java EE technologies are used to develop Web applications. Initially, you are introduced to various Web technologies, such as HTML, PHP, JSP, ASP.NET, and AJAX. The book further discusses Java EE Web technologies, such as Java Servlet, JSP, and JSTL. The primary focus of the book is on the development of web pages using HTML and JSP along with the implementation of new concepts, such as filters, programmatic and declarative security, and JSTL 1.2. The book also incorporates a project, Competence Management Solutions (CMS), which serves as the human resource management solution, developed by using the concepts explained in the chapters.

In this book, you learn about:

- **Web Technologies:** Introduces various Web technologies, such as JSP, AJAX, and ASP.Net, which are used to develop Web applications

- **HTML and JavaScript:** Explores the role of JavaScript in applying validations on the fields of the Web form and helps you learn how to use HTML tags

- **JavaBeans:** Explains the role of JavaBeans in implementing business logic in an application

- **Servlet Programming:** Allows you to design controller servlets using Java Servlet

- **Session Handling in Servlets 3.0:** Allows you to handle the user session details using the Session tracking API

- **JavaServer Pages (JSP):** Implements JSP to design view pages of the Web application

- **JSP Tag Extensions:** Helps you to design custom tags that can be used in the JSP pages of the Web application

- **JSTL:** Helps you to implement various functionalities, such as accessing data from database and format the data of a JSP page using the tags defined in the JavaServer Pages Standard Tag Library

- **Java Database Connectivity (JDBC):** Provides interfaces and classes that are used to establish connection of the application with the database to perform various functions, such as retrieving, inserting, updating, or deleting data from the database

- **Filters and Security in Web Applications:** Explores the role of filters in managing the request of the user that is being processed by the Servlet and also how the data of the application can be secured by using programmatic and declarative security mechanisms

- **Servlet 3.0:** Introduces various new features, such as use of annotations in a Servlet instead of providing configuration details in the web.xml file

- **The Struts Framework:** Serves as an external Web framework that is used in applications to design view pages and create action classes

About the Authors

Dr. Hiren Joshi is the Assistant Professor of Computer Science at Department of Computer Science, Rollwala Computer Centre, Gujarat University. He has done his Ph.D. in Computer Science from Saurashtra University. He is teaching computer science related subjects in M.Tech., MCA, and PGDCSA. He has over 8 years of teaching experience at the Post Graduate level. Dr. Hiren Joshis' research interests include Database Systems and Biometric Authentication Systems.

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