BACK-END DATABASE
And
ONLINE HELP

for the internet-based information system and virtual shop

"INDUS BOOKS"

BY

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PROJECT BRIEF

PROJECT TITLE	VIRTUAL SHOP "INDUS BOOKS"
ORGANIZATION CONSULTED	VANGUARD BOOKS PRIVATE LIMITED
OBJECTIVE	TO CONSTRUCT THE BACK-END DATABASE AND ONLINE HELP FOR THE INTERNET-BASED INFORMATION SYSTEM "INDUS BOOKS"
UNDERTAKEN BY	MOHAMMAD AHMAD SHAHID ZAKA
SUPERVISED BY	DR. SAEED AKHTAR BHATTI
STARTING TIME	JUNE 1999
COMPLETION TIME	OCTOBER 1999
SOFTWARE USED	PERSONAL ORACLE 7, MICROSOFT FRONTPAGE 98
OPERATING SYSTEM	WINDOWS 98
SYSTEM USED	INTEL PENTIUM 300 MHZ

To ***ALMIGHTY***, who created the Moon, flowers, the Sun and the other stars…..

ABSTRACT

Our intention is to construct a World Wide Web based store of books, CDs and magazines. It is shall be an on-line WWW based information system from where users can select books and CDs of their choice and then order them. To achieve that end we shall provide the E-Commerce facility to users. The books and CDs may be searched on the basis of author, publisher, ISBN number, etc.

The front end of our application shall be in Java. The web site shall contain Java applets. The search engines and ordering forms shall be available to on-line external users. The middle ware will be composed of JDBC. The back end shall be a WWW based database in **Oracle**. This database will be the heart of the application, as it will contain all the information about CDs, books and magazines.

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Last but not least, thanks are due to my family and friends for always being there for me. Their presence is a never-ending source of joy and beauty in my life.

Mohammad Ahmad Shahid Zaka
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Preface

This dissertation deals with various aspects of back-end database development including its analysis, design and implementation. It also describes the building of "online help" for the software application.

Chapter 1 of the thesis introduces the project and tells about my part of the software application.

Database Analysis has been discussed in **Chapter 2**. Database entities have been described.

Chapter 3 explains Database Design. This includes discussing tables and their attributes.

Chapter 4 tells in detail why Oracle is best suited for building software applications involved in e-business.

Why Oracle works well with Java and JDBC is told in **Chapter 5**.

Chapter 6 talks about Database Development.

Building of "Online Help" is explained in **Chapter 7**.

Chapter 8 tells the vital importance of software testing.

Bibliography is provided at the end of the thesis.

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Chapter One

Introduction