

**CID BILLING & AUTHENTICATION SYSTEM
(CID)
(PHYSICAL DESIGN)**



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**BAHRIA UNIVERSITY
E-8 ISLAMABAD**

**DEVELOPMENT OF CID BILLING
&
AUTHENTICATION SYSTEM
(Physical Design)**

**A PROJECT PRESENTED TO THE
BAHRIA UNIVERSITY
E-8 ISLAMABAD**

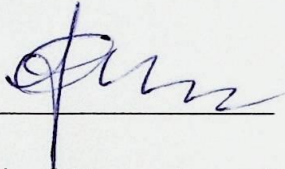
IN

**PARTIAL FULFILMENT OF THE REQUIREMENT
FOR THE
MASTER'S DEGREE IN
SOFTWARE ENGINEERING**

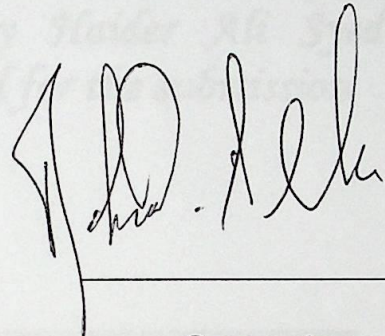
**BY
HAIDER ALI SYED
FEBURARY, 2004**

Certificate

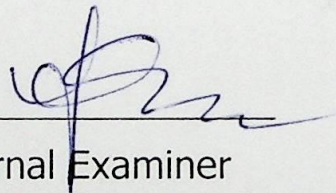
We accept the work contained in this report as confirming to the required standard for the partial fulfillment of the degree of BCS in the subject of Computer Science.



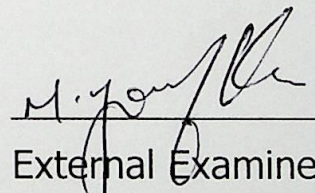
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DEDICATION

TO,

My Allah's Prophet (PBUH) and Ali Ibn-A-Abitalib(AS), who were real source of knowledge for me, and to my Parents for their support and prayers and Dr. M.A.Khan for his help.

PROJECT BRIEF

PROJECT TITLE : *CID BILLING & AUTHENTICATION SYSTEM (CID).*

OBJECTIVE : *DEVELOPING A SYSTEM FOR CALLING CARDS BILLING*

UNDERTAKEN BY : *HAIDER ALI SYED*

SUPERVISOR : *M.A.KHAN .*

DATE STARTED : *JULY 2003.*

DATE OF COMPLETION : *FEBRUARY 2004*

DEVELOPMENT TOOL : *ORACLE 8,8i,9i,SQL SERVER, MS ACCESS, JAVA, JSP*

OPERATING SYSTEM : *LINUX FOR SERVER , WINDOWS FOR BACKUP SERVER*

HARDWARE PLATFORM: *5 GB HARD DISK, 126 MB RAM, VGA CARD, PENTIUM II (Intel)*

ACKNOWLEDGEMENT

First of all I bow my head before Almighty Allah who enabled me to accomplish this project and granted me with His mercy, blessings and help throughout the different stages of this work.

I would like to attribute my success to those words of prophet(PBUH) "Oh Allah augment my knowledge" and his son in law Ali Bin Abi Talib words " One who told me a single word is my Teacher"., which encouraged me on every moment of my education life.

I would like to express my profound regards to my supervisor Mr. M.A.Khan who extended his complete co-operation and guidance during this project. He provided me all the necessary support, valuable advice and critical appreciation during all the phases of the project.

Finally I would acknowledge the support of my family members. It would not be possible for me to complete the said project without their prayers. I am cordially thankful to all of them.

Abstract

This project is about developing the Calling Card Billing System (CBS) that can be used by any Telecom Company in Pakistan. It is general purpose software that can be tailored easily according to the needs & requirements of the organization that purchases it.

The first chapter gives us the over view of the software. Its introduction, what are its purposes, where it can be used etc.

Second chapter is about the requirements and functions that the software should provide and the reports that should be generated. These requirements have been specified after a survey which involved different telecom companies.

In the third chapter the design of the software is explained in detail. Both its back-end and front-end is explained. The flow of information is shown by different Entity Relation Diagrams. Logical Mapping is also given. Steps of normalization are also explained.

Fourth chapter gives us the detail of the software and hard-ware that are used for developing and running this system in any organization. Reasons for using Oracle and JSP are discussed in detail. Minimum hard ware requirements for this system are also discussed in this chapter.

In fifth chapter different implementation styles and testing styles are given and the reason for selecting a particular implementation style and testing styles are also given. In addition some test cases are also displayed in this chapter.

Evaluation of the CBS is done in detail in the sixth chapter. Future enhancements for this system are also mentioned in this chapter six.

In the end there is a user manual, which thoroughly explains the front-end of the system. All the fields of each web page are explained thoroughly. As it is a technical system and its hard for a lay man to understand the technical terms so an explanation of each technical term is also given in the end.

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