CUSTOMER SUPPORT SYSTEM

(System Implementation)

Submitted By

Amara Aslam



Supervised By Mr. Zarrar Javaid

Department Of Computer Science

Bahria Institute Of Management And Computer Sciences Islamabad

University Of Peshawar

In the name of Almighty ALLAH,

The most Gracious,

The most Merciful.

DEDICATION

To our dear parents

ACKNOWLEDGEMENT

All praises are bound to point Almighty Allah, The Creator of this universe, who made

us His supreme creature and like other fellow beings blessed us with a knowledge to

accomplish this task.

Our entire vocabulary to nominate our sensation of respect for our parents seems

colourless, because without their shadow of love all our efforts could have been a

whisper in the desert. Moreover, we feel a great pleasure in expressing the heartiest

gratitude to all our teachers who never let us shake our confidence during the class

lectures. We are sorry for not having any yardstick to justify their order of greatness

without being dishonest.

The acknowledgement will remain incomplete without special thanks to our friends for

their excellent cooperation and nice companionship. We are thankful to all of our class

fellows for their love and good feelings for us. May Almighty Allah shower His blessings

upon all of us.

Fahad Afzal Ch.

Amara Aslam

Certificate

We accept the work contained in this report as a confirming to the required standard for the partial fulfilment of the degree in the program of Bachelors of Computer Sciences.

Head of Department

Internal Examiner

10

External Examiner

Abstract

The customer support system is an efficient and convenient way of storing and retrieving important data. It can be used by different companies that are dealing with various areas of the computer field. The main use of this system is to record information regarding the customers and other people that are a part of that company. Different types of records are maintained with the help of this system.

The tools used are simple and easy to use and understand. Information is not only stored but can be modified. A company keeps record of its clients and distributors. It also keeps track of the services that are provided to the customers. The range of products and items available are also stored using this system.

CONTENTS

Dedication					
Ac	knowledge	ement	ii		
Ce	Certificate				
Ab	stract		iv		
1.	Introduct	tion			
	1.1 Proj	ect Overview	1		
2	Requirem	nent Analysis			
	2.1 Exis	ting System	2		
	2.1.1	Administration	3		
	2.1.2	Sales	3		
	2.1.3	Finance / Audit	3		
	2.1.5	Store	4		
	2.1.6	Technical	4		
	2.1	1.6.1 Voice	4		
	2.1	1.6.2 Data	4		
	2.2 Prob	olem Domain	5		
	2.3 Need	d for Computerization	5		
3	Proposed	System			
	3.1 Obj	ectives of the Proposed System	6		
	3.1.1	Efficiency	6		
	3.1.2	Accuracy	6		
	3.1.3	Data Security	7		
	3.1.4	User Friendly	7		
	3.1.5	Economical	7		
	3.1.6	Simplicity	7		
	3.1.7	Flexibility	7		

	3.1.8	Reliability	7
	3.1.9	Easy Implementation	8
	3.1.10	Practicability	8
	3.1.11	Maintenance	8
	3.1.12	Acceptability	8
4	System D	esign	
	4.1 Norm	malization	9
	4.1.1	Dependencies	9
	4.1.2	Reduction	10
	4.1.3	Levels of Normalization	11
	4.1.4	Why Normal Forms?	11
	4.1.5	First Normal Form	11
	4.1.6	Second Normal Form	12
	4.1.7	Third Normal Form	12
	4.2 Norm	malization of Database	13
	4.3 Desi	gn Phase	13
	4.3.1	Logical Design	14
		4.3.1.1 Input Design	14
		4.3.1.2 Output Design	14
		4.3.1.3 Table Design	14
	4.3.2	Physical Database Design	14
	4.4 Inter	face Design	22
	4.5 Data	flow And Entity Relationship Diagrams	23
5		evelopment	
	5.1 Deve	elopment Phase	27
	5.2 Deve	elopment Approaches	27
	5.2.1	Top Down Approach	27
	5.2.2	Bottom Up Approach	28
	5.2.3	Inside Out Approach	28
	5.2.4	Mixed Approach	28
	5.3 Softv	ware Selection	28

	5.3.1	Windows Environment	28
	5.3.2	Language Selection	29
	5.4 Why	y Visual Basic?	29
6	Impleme	ntation And Evaluation	
	6.1 Imp	lementation	30
	6.1.1	System Testing	30
		6.1.1.1 Unit Testing	31
		6.1.1.2 Integrated Testing	31
		6.1.1.3 System Testing	31
	6.1.2	System Conversion	31
		6.1.2.1 Direct Conversion	31
		6.1.2.2 Phase In Conversion	32
		6.1.2.3 Pilot Conversion	32
		6.1.2.4 Parallel Conversion	32
	6.1.3	Proposed System Conversion	32
	6.2 Eval	luation	33
	6.2.1	Merits of Developed System	33
	6.2.2	Precautions And Recommendations	34
7	Conclusio	on And Future Enhancements	35
A	pendices		
Appendix I		User Guide	36
Appendix II		References	41