

**ELECTRONIC COURSE FORM REGISTRATION
(A CASE STUDY OF CARITAS UNIVERSITY)**

BY

OKOLI EZINNE ANNASTHESIA

REG. NO: CST/2008/255

**DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION
TECHNOLOGY**

**FACULTY OF NATURAL SCIENCES CARITAS UNIVERSITY, AMORJI-
NIKE EMENE, ENUGU STATE**

FOR

**IN PARTIAL FULFILMENT OF THE REQUIREMENT FOR THE
AWARD OF BACHELOR OF SCIENCE (B.Sc.) IN COMPUTER SCIENCE
AND INFORMATION TECHNOLOGY**

AUGUST 2010

APPROVAL PAGE

This project work written by **OKOLI EZINNE ANNASTHESIA** has been approved for the department of computer science and information technology, caritas university Enugu state.

.....

.....

OKOLI EZINNE ANNASTHESIA

Date

(Student)

.....

.....

Dr. A. S. ARINZE

Date

(Project Supervisor/Head of Department)

.....

.....

External Examiner

Date

CERTIFICATION PAGE

This is to certify that this project work was fully carried out by **OKOLI EZINNE ANNASTHESIA** of the Department of Computer Science and information technology, Caritas University Amorji-Nike, Enugu state.

.....

.....

OKOLI EZINNE ANNASTHESIA

Date

(Student)

.....

.....

Dr. A.S Nwaeze
Supervisor)

Date (Project

DEDICATION

This project is dedicated to God almighty for the understanding and good health given to me throughout the execution of this project and my stay as a student of the great Caritas University and also to all lovers of knowledge.

ACKNOWLEDGEMENT

First of all, I give praise to God almighty who gave me the strength and wisdom to carry out this worthwhile Project.

I wish to express my profound gratitude to my siblings and beloved parents, Mr. and Mrs. John Okoli for their moral, financial and all round support throughout my undergraduate years.

My sincere and heartfelt gratitude also goes to my indefatigable and erudite supervisor and Head of Department, Dr. A.S. Nwaeze, for his counsel, guidance and fatherly gestures throughout the period of this project and my overall academic work.

I am very grateful to the committed team of lecturers (Mr. Ejike, Mr. Ikpeama, Mrs. Chizoba Ezeme, Mr. Solomon, Mr. Prado and Mr. Joseph Igwe) who have been instrumental to the wealth of knowledge I have acquired in the department of Computer Science and Information Technology. Words cannot express my gratitude to you all; you will always be remembered dearly.

I am also obliged to say a big “thank you” to my siblings, Victor, Linda, Ernest, Charles, Emmanuel, John, you all are my pillars. I can never forget my dear friends you stood by me amidst all troubles, Precious, Oge, Chinyere, Rosemary Makua, Uzoma, Dubem, Mr. Basil, Obed etc

Finally to my fellow colleagues, I say “thanks a million!”

TABLE OF CONTENTS

Title page -----	i
Certification-----	ii
Dedication-----	iii
Acknowledgement-----	iv
Table of content-----	v
List of Figures-----	vi
List of Tables-----	vii
ABSTRACT-----	xii
Chapter One: INTRODUCTION	
1.1 Background-----	2
1.2 Problem Definition -----	4
1.3 Aims and Objectives of the Project -----	4
1.4 Scope of work-----	5
1.5 Significance of the Project-----	6
1.6 Limitations of the Project-----	6

Chapter Two: LITERATURE REVIEW

2.0 Introduction-----	8
2.1 Information Management System-----	9
2.2 Dynamic Web Application-----	11
2.3 Brief History of Web Application-----	12
2.4 Typical Structure of a Web Application-----	14
2.5 Mode of Web Application Operation-----	12
2.5.1 Typical HTML Implementation-----	14
2.5.2 Typical HTML/PHP Implementation-----	15

Chapter Three: SYSTEMS ANALYSIS AND DESIGN

3.0 Introduction-----	17
3.1 Systems Study and Analysis-----	17
3.2 System Methodology-----	19
3.3 System Organization Structure-----	20
3.4 Data Collection-----	20

3.5 System Process Model-----	24
3.6 Database Design for the Computer-Based School Management Information System-----	28
3.7 Input/Output and Report Formats Design Input Analysis-----	29
3.8 Application Modules Design-----	30
3.9 Justification of the New System-----	33
 Chapter Four: SYSTEM IMPLEMENTATION	
4.0 System Implementation Platform-----	35
4.1 Hardware Platform-----	35
4.2 Software Platform-----	36
4.3 MySQL DDL/DML/DQL/DCL-----	37
4.4 System Development -----	40
4.5 System Design-----	44
4.6 System Requirement-----	47
4.7 Data Communication Facilities Requirement-----	48
4.8 Computer Hardware Requirements-----	54

4.9 Databases and Support Software Requirements-----	52
4.1.0 System Implementation-----	54
4.1.1 System Test Description-----	54
4.1.2 Pre-conversion work-----	55
4.1.3 Conversion-----	55
4.1.4 Crash Approach-----	56
4.1.5 Pilot Approach-----	56
4.1.6 Parallel Approach-----	57
4.1.7 Changeover Procedure-----	57
4.1.8 System Maintenance-----	57
4.1.9 User Training-----	59
Chapter Five: SUMMARY, RECOMMENDATIONS AND CONCLUSION	
5.0 Summary-----	62
5.1 Recommendation-----	64
5.2 Conclusion-----	64

REFERENCES-----67

APPENDIX I (Program Codes) -----68

APPENDIX II (Interfaces) -----80

LIST OF TABLES

Table 3.2: Format for data collection for-----19

Returning Student School fees payment

Table 3.3: Format for data collection for a -----20

New Student School fees payment

Table 3.4: Format for Data collection for Courses Registration-----21

Table 3.5: Format for Authentication/login page for Students-----21

Table 3.6: Format for Authentication/login page for-----22

Lecturers/Academic advisers

Table 3.7: Authentication/login data collection page for-----22

Site and Database Admin.

Table 3.9: Format for database design for the Computer-based-----26

Information Management System.

LIST OF FIGURES

Fig. 2.1: Communication between a Web Browser and a Web Server-----	11
Fig 2.2 Response from a Web Server to the Web Browser-----	12
Fig 2.3: Interaction between Web Browser and the Database-----	13
Fig 3.1: Organizational Structure-----	18
Fig 3.9: School fees payment Flowchart for New Students-----	23
Fig 3.9.1: School fees payment flowchart for returning student-----	24
Fig 4.1: System Development Cycle-----	39
Fig 4.2: Snap shot of a website-----	43
Fig 4.3: Pictorial explanation of PHP interaction-----	45
Fig 4.4: Communication between web browser and web server-----	49
Fig 4.5: Response web server to the web browser-----	50

ABSTRACT

This project is centered on an online registration system using Caritas University as a case study. It concentrates on the design of a dynamic web application and departmental portal and functional database responsible for an online registration with an aim of facilitating electronic method/means of school fees payment, course form registration; designation of course advisers to students, management of departmental staff, academic activities of students, among others, hence helping the institution to overcome the problems of manual registration system. This manual process could be tedious, clumsy, inefficient and easily dispensable. It can result in delayed services, complaints from all involved (both students and staff), loss of files which could easily due to natural or manmade disaster, bulkiness, inadequacy of proper storage in the right files and lastly unavailability of information about the department for intending students.

Therefore, this project provides a web application as well as database to have these records and to make life easier in this area. The development tools used for this project include Hypertext Markup Language (HTML), Hypertext Preprocessor (PHP), (Structured Query Language) Relational Database Management System (RDMS) and JAVA Script.