

HIGHER TECHNICAL INSTITUTE

COURSE IN COMPUTER STUDIES

DIPLOMA PROJECT

HEALTH FITNESS CLUB SYSTEM

CS/389

MARIOS NICOLAOU

JUNE 2008

HIGHER TECHNICAL INSTITUTE	PROJECT NO
	3734

HEALTH FITNESS CLUB SYSTEM

BY

MARIOS NICOLAOU

DIPLOMA REPORT SUBMITTED TO THE
HIGHER TECHNICAL INSTITUTE
NICOSIA, CYPRUS

In partial fulfillment of the requirement at the award
of diploma in Computer Studies.

Project Number: CS/389

Project Supervisor: Dr. Panicos Masouras BSc, MSc, MCCS
Senior Lecturer in Computer Studies Courses
Higher Technical Institute – Nicosia, Cyprus

External Supervisor: Skevi Skordallou

Type of Project: Web Development & Design

HIGHER TECHNICAL INSTITUTE	PROJECT NO 3734
----------------------------------	--------------------

TABLE OF CONTENTS

Introduction..... 5

CHAPTER 1 - INITIAL INVESTIGATION PHASE

1.1 Initial Investigation..... 7

1.1.1 Information about the Club 7

1.1.2 Organizational Structure..... 7

1.1.3 Description of existing Procedures 8

1.1.4 Problems with Existing Procedures 8

1.1.5 Information Gathering..... 9

1.1.6 Conclusion..... 9

1.2 Feasibility Study 9

1.2.1 Introduction..... 5

1.2.2 Recommended Solutions 9

1.2.3 Hardware..... 10

1.2.4 Software 10

1.2.5 Feasibility Study 12

1.2.6 Human Factor Feasibility..... 13

1.2.7 Schedule Feasibility..... 13

1.2.8 Tangible & Intangible Benefits..... 13

Conclusion..... 13

CHAPTER 2 - GENERAL ANALYSIS AND DESIGN PHASE

2.1 Existing System Review 15

2.1.1 Introduction..... 15

2.1.2 Existing Context Diagram	15
2.1.3 Changes between current and new system.....	15
2.2 New System	16
2.2.1 Purpose and Functions.....	16
2.2.2 Processing.....	16
2.2.3 Data Dictionary	17
2.2.4 Input	17
2.2.5 Output.....	17
2.2.6 Security and Control	17
2.2.7 User Interface with the System.....	18
2.2.8 Performance	19
2.3 Conclusion.....	19

CHAPTER 3 - DETAIL DESIGN AND IMPLEMENTATION PHASE

3.1 Introduction.....	21
3.1.1 Training	25
3.2 Detail Design Description	21
3.3 Network	22
3.4 Database	23
3.5 Database Design.....	23
3.6 User Interface.....	23
3.7 System Operational.....	24
3.7.1 Software	24
3.7.2 Hardware	24
3.7.3 System Installation	24
3.8 Backup & Recovery	24
3.9 Development	25

CHAPTER 4 - INSTALLATION PHASE

4.1 Installation 27

CHAPTER 5 - REVIEW PHASE

5.1 Conclusion & Final Thoughts..... 29

APPENDICES 30

Introduction

The purpose of this project is to build a system that will keep track of a health and fitness club's members and payments. A computerized system will be able to handle all the members of a fitness club with a more confident way. The owner will be in the position to make his work easier and faster with this computerized system.

In the following chapters of this book I will analyze the needs of a fitness club and I will propose the best solution to the problem, taking into consideration all the issues like security, ease of use, performance and stability.