HIGHER TECHNICAL INSTITUTE

COURSE IN COMPUTER STUDIES

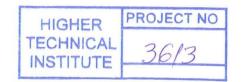
DIPLOMA PROJECT

DEVELOPMENT OF A COMPUTER BASED TUTORIAL TO TEACH THE DATABASE ASPECTS OF VISUAL BASIC

CS/354

ANDREAS HADJITTOFIS

JUNE 2006



Development of a Computer Based Tutorial to Teach the Database Aspects of Visual Basic Summary

Summary

This project is created as an effort to develop a computer based tutorial to teach the database aspects of Visual Basic in partial fulfillment of the requirements for the award of the diploma in Computer Studies. Its aim is to provide the user everything they must know in order to connect their application developed with Visual Basic, with a database.

Visual Basic is a very popular language. More and more people, whether they are beginner or experienced programmers, try to use Visual Basic every day. Even the simplest application developed with Visual Basic will someday be needed to be connected with a database. That's where the Tutorial comes in. The Tutorial provides to the Visual Basic programmer that valuable help on how to connect their newly developed application to a database, in a user friendly manner, targeting the beginner programmer.

The system will be developed using Microsoft FrontPage and HTML Help Workshop. It will include a combination of text and images in a user friendly environment, since attractiveness is one of our main goals.

Development of a Computer Based Tutorial to Teach the Database Aspects of Visual Basic Table of Contents

Table of Contents	
	Page
Acknowledgements	· 1
Summary	2
Introduction	3
1. Investigation Phase	4
1.1 Initial Investigation Activity	5
1.1.1 Introduction	5
1.1.2 Project Request Evaluation	6
1.1.3 Problem Definition	7
1.1.4 Existing Procedures	8
1.1.5 Conclusion	9
1.2 Feasibility Study	10
1.2.1 Introduction	10
1.2.2 Technical Feasibility	11
1.2.3 Financial Feasibility	12
1.2.4 Schedule Feasibility	14
1.2.5 Conclusion	15
2. Analysis and General Design Phase	16
2.1 Introduction	17
2.2 System Requirements	18
2.3 System Design	19
2.4 The Programming Language	20
3. Detailed Design and Implementation Phase	21
3.1 Introduction	22
3.2 Technical Design	23
3.2.1 Detailed Design Specification Document	24
3.3 Test Specifications and Planning	25
3.4 System Testing	27
	20

Conclusion

2

28

Development of a Computer Based Tutorial to Teach the Database Aspects of Visual Basic Table of Contents

.1

Appendices	29
A Timetable	30
B Microsoft FrontPage Screenshot	32
C HTML Help Workshop Screenshot	34
D Context Diagram	36
E Data Flow Diagram	38
F Tutorial Screenshots	40

 $\tilde{\psi}^{i}$