HIGHER TECHNICAL INSTITUDE

COURSE IN COMPUTER STUDIES

DIPLOMA PROJECT

MULTIMEDIA TRAINING PACKAGE FOR DATABASE MANGEMENT SYSTEMS
CS / 218

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The purpose of the project is to investigate the material taught in the DBMS course at HTI and identify the main areas that could be studied through the package. Also any other areas significant to be handled, which relate to Relational DBMS must be identified. This was covered in the Investigation Phase.

A computerised multimedia/graphical training package must be developed which will include in it the following major activities:

1. Select specific areas of the course and other areas relating to RDBMS and build around these principles the whole system. Some of these areas are the following :

   Type of DBMS Relational Principles and Approach (Relations, Relationships, Degree of Relationships, etc)

   Building ERD

   Relations and converting ERD to Relations

   Relational Operators

   SQL language etc

2. Create for every one of the items listed above a teaching module. The teaching module will include textual, multimedia and graphical demonstrations. Other teaching methods may be used as considered most appropriate for the problem.

3. Create a training/tutorial module for every on of the items listed above. Through this module the user will be able to practice interactively on the principles presented.
4. Create an examination module for every one of the items listed above. The examination module must test the knowledge acquired by the user of the system in a flexible and random way. Three types of questions must be provided at least. The questions must at least be multiple choice questions, true or false questions and filling the blanks questions which will be saved in a questions data bank.
5. Prepare all necessary reports and present on the screen, printer or file.
6. Provide online enquiries for any relevant information.
7. Derive statistics from the data kept by the system especially in the area of the examination of students Prepare a project report.
8. Prepare a report for the system developed.
9. Prepare a user manual for the system

Table Of Contents

Introduction
1. Initial Investigation 1
1.1 Initial Investigation Report 1
1.1.1 Introduction 1
1.1.2 Considerations 1
1.1.3 Information about the organisation 3
1.1.4 Existing procedures 4
1.1.5 Consider Alternatives 5
1.1.6 Recommendation 6
1.1.7 Following a technique 7
1.1.8 Selection Of Language 8
1.2 Feasibility Study 12
1.2.1 Recommendation 12
1.2.2 Financial Feasibility 12
1.2.3 Technical Feasibility 13
1.2.4 Human Factors 15
1.2.5Operational Feasibility 15
1.2.6 Scheduled Feasibility 15
1.2.7 Conclusion 15
2. Analysis and general design 17
2.1 Introduction 17
2.1.2 Existing Procedure Drawbacks 17
2.1.3 Introduction to DBMS 18
2.1.4 Visual Basic 6 Characteristics 19
2.2 New System Requirements 23
2.2.2 User specification Report 23
2.2.2.1 Introduction 23
2.2.2.2 Overview Narrative 23
2.2.2.3 System Functions 24
2.2.2.4 Processing 24
2.2.2.5 Data Dictionary 26
2.2.2.6 Inputs to the system 27
2.2.2.7 Outputs to the User 28
2.3 New system Design 30
2.3.1 Introduction 30
2.3.2 New System design specification 30
2.3.2.1 Data File 30
2.3.2.2 User Interface with program 31
2.3.2.3 Performance Criteria 32
2.3.2.4 Security 33

2.3.2.5 Access Control 33
2.4 Implementation and Installation Planning 34
2.4.1 Introduction 34
2.4.2 Preliminary Implementation phase and test Plan 34
2.4.3 Preliminary System test Plan 35
2.4.4 User Training 35
2.4.5 Preliminary installation plan 36
3. Detailed design and Implementation phase 37
3.1 Technical Design 37
3.1.1 Introduction 37
3.1.2 Detailed Design and Specification Document 37
3.1.2.1 Application Design 37
3.1.2.2 Backup requirements 38
3.1.2.3 File Design 38
3.1.2.4 Security and Control Measures 38
3.2 Test Specification and Planning 39
3.2.1 Introduction 39
3.2.2 Unit testing 40
3.2.3 Integration testing 40
3.2.4 Function testing 41
3.2.5 System testing 41
3.2.6 Acceptance testing 42
3.3 Programming and Testing 43
3.3.1 Introduction 43
3.4 User Training 44
3.4.1 Introduction 44
3.5 System test 45
3.5.1 Introduction 45
4. Review phase 46
4.1 Introduction 46
4.2 Development recap 46
4.3 Post – implementation review 46