# HIGHER TECHNICAL INSTITUTE

COURSE IN COMPUTER STUDIES

# DIPLOMA PROJECT

# DESIGN AND IMPLEMENTATION OF A WEB BASED CONFERENCE MANAGEMENT SYSTEM

**CS/275**

**MARKOU SOTERIS**
**STYLIANOU STELIOS**

**5 JUNE 2002**

HIGHER TECHNICAL INSTITUTE | PROJECT NO. 3301

## Summary

## Conference Management System

### A few words about the system

The project was suggested by Mr. Panicos Masouras, lecturer of the General Studies Department of the Higher Technical Institute.

The main objectives of this project is to design and implement a system that it will enable companies involved in the field of events and conference organization and management to operate in the most effective way.
In addition, the system was implemented so that it works and is accessible over the World Wide Web. For the designing of the system appropriate technologies for creating, using and managing information were used. The software programs we used for the development of the web site were:
Microsoft Access 2000, Microsoft FrontPage 2000, Personal Web Server and ASP.

As it was expected, during the project development we were faced some problems. The major problem we faced was the conjunction of the Microsoft Access with ASP because it was the first time we had to use them together. But with the great help of our supervisors and colleagues we managed to overcome the problems.

Finally, we would like to mention that this project helped us to learn many basic things with Web based Programming.

# CONTENTS

Acknowledgments.....1
Introduction.....2
Summary.....3

**CHAPTER 1-INVESTIGATION PHASE**.....4
**1.1 Initial Investigation** .....5
1.1.1 Introduction.....5
1.1.2 Project Evaluation.....6
1.1.3 Problem Definition.....7
1.1.4 Existing Procedure.....8
1.1.5 Information Gathering.....8
1.1.6 Recommendations.....9
**1.2 Feasibility Study**.....10
1.2.1 Introduction.....10
1.2.3 Feasibility Factors.....12
1.2.3.1Financial Feasibility.....12
1.2.3.2 Operational Feasibility.....13
1.2.3.3 Technical Feasibility.....15
1.2.3.4 Schedule Feasibility.....15
1.2.3.5 Human Factors Feasibility.....16
1.2.4 Conclusion.....16

**CHAPTER 2-ANALYSIS AND GENERAL DESIGN PHASE**.....17
**2.1 Existing System Review**.....18
2.1.1 Introduction.....18
2.1.2 Information Movement.....18
2.1.3 Methods and Procedures for performing the Work.....19
2.1.4 Work Schedules and Volumes.....20
2.1.5 Performance Criteria.....20
2.1.6 Policies and Control Mechanisms.....21
2.1.7 Current Manual System Deficiencies.....21
**2.2 New System Requirements**.....23
2.2.1 Introduction.....23
2.2.2 User Specification Document.....23
2.2.2.1 Overview Narrative.....23
2.2.2.2 Processing.....24
2.2.2.3 Inputs to the System.....26

2.2.2.4 Outputs to the Users.....26
2.2.2.5 User Interface with the System.....27

**2.3 New System Design**.....28
2.3.1 Introduction.....28
2.3.2 System Function.....28
2.3.3 Processing.....29
2.3.4 File Design.....30
2.3.5 Web Design.....30
2.3.6 Performance Criteria.....30
2.3.7 Security and Control.....31
2.3.8 Access Controls.....32
**2.4 Implementation and Installation Planning**.....33
2.4.1 Introduction.....33
2.4.2 Preliminary Detailed Design and Implementation Plan.....34
2.4.3 Preliminary System Test Plan.....34
**2.5 Conclusion**.....35

**CHAPTER 3-DETAILED DESIGN AND IMPLEMENTATION PHASE**.....36
**3.1 Introduction**.....37
**3.2 Technical Design**.....37
3.2.1 Introduction.....37
3.2.2 Detailed Design Specification Document.....38
**3.3 Test Specification and Planning**.....39
3.3.1 Introduction.....39
3.3.2 Unit Testing.....39
3.3.3 Integration Testing.....39
3.3.4 Function Testing.....40
3.3.5 System Testing.....40
3.3.6 Acceptance Testing.....40
**3.4 Programming and Testing**.....42
**3.5 User Training**.....43
**3.6 System Test**.....44

**CHAPTER 4-INSTALLATION PHASE**.....45
**4.1 Introduction**.....46
**4.2 File Conversion**.....47
**4.3 Installation and Running the System**.....48

**CHAPTER 5-REVIEW PHASE**.....49
**5.1 Introduction**.....50
**5.2 Development Recap**.....51
**5.2 Post Implementation Review**.....52

# APPENDICES

**APPENDIX A-** General Information
**APPENDIX B-** Feasibility Study Information