

HIGHER TECHNICAL INSTITUTE

COURSE IN COMPUTER STUDIES

DIPLOMA PROJECT

STUDENT ON-LINE ACCESS SYSTEM

CS/283

ANDREAS ANGELIDES

JUNE 2002

HIGHER TECHNICAL INSTITUTE	PROJECT NO. 3310
----------------------------------	---------------------

SUMMARY

STUDENT ON-LINE ACCESS SYSTEM Andreas Angelides

The original proposal issued by the Computer Science Department of the Higher Technical Institute, in partial fulfillment of the requirements of the award of the Diploma in Computer Studies concerns the development of a Student on-line Access System.

The main purpose of this project is to facilitate the lecturers to communicate with the students and allow the students for distance practicing and learning on the web.

It is believed that with this system, students will learn more and practice more for their lessons.

TABLE OF CONTENTS

ACKNOWLEDGEMENTS

SUMMARY.....1

INTRODUCTION..... 2

CHAPTER 1

INITIAL INVESTIGATION PHASE

1.1. INITIAL INVESTIGATION ACTIVITY 3

1.1.1 Project description 3

1.1.2 Resources needed 4

1.1.3 Recommendations 4

1.2. FEASIBILITY STUDY 7

INTRODUCTION 7

1.2.1 Financial Feasibility 8

1.2.1.1 Cost & Benefit Analysis 8

1.2.2. Operational Feasibility 11

1.2.3. Schedule Feasibility 11

1.2.4. Recommendations 11

CHAPTER 2

ANALYSIS AND GENERAL DESIGN PHASE

2.1	NEW SYSTEM REQUIREMENTS.....	12
2.1.1	Overview narrative	12
2.1.1	Processing	13
2.1.2	Data dictionary.....	13
2.1.3	Process Descriptions	13
2.1.4	Entity Relationship Diagram	14
2.1.5	User Interfaces with the System.....	14
2.1.6	Input/Output forms.....	14
2.2	NEW SYSTEM DESIGN	15
2.2.1	New system design specification document.....	15
2.2.1.1	Data files	15
2.2.1.2	Performance Criteria.....	16
2.2.1.3	Security and control.....	17
2.2.2	Software packages	18
2.2.3	Conclusions	20

CHAPTER 3

DETAILED DESIGN AND IMPLEMENTATION PHASE

3.1	TECHNICAL DESIGN.....	21
3.1.1	DETAILED DESIGN SPECIFICATION DOCUMENT ...	21
3.1.1.1	Backup requirements and recovery procedures ..	21
3.1.1.2	User interface with the system	22
3.2	TEST SPECIFICATION AND PLANNING	23
3.2.1	Test Plan.....	23
3.3	PROGRAMMING AND TESTING	25
3.3.1	The process of Programming and testing.....	25
3.4	USER TRAINING	26
3.4.1	User Training Description.....	26
3.4.2	User Manual	26
3.5	SYSTEM TEST.....	27
3.5.1	Complete System Test	27
3.6	CONCLUSIONS	28

CHAPTER 4

INSTALLATION PHASE

4.1	SYSTEM INSTALLATION	29
4.1.1	Installation Method	29
4.2	Conclusion	30

CHAPTER 5

REVIEW

5.1	Development Recap	31
5.2	POST – IMPLEMENTATION REVIEW.....	32
5.2.1	Activity Description	32
5.2.2	Post – Implementation Review Report	32
5.2.2.1	Evaluation of the extend to which the original requirements and objectives are being met by the installed system.	32
5.2.2.2	Comparison of the developmental and operational costs with original cost estimates.....	32
5.3	CONCLUSIONS.....	33