HIGHER TECHNICAL INSTITUTE

(H.T.I)

COMPUTER STUDIES COURSE

DIPLOMA REPORT

SIMULATION PACKAGE FOR ADVANCED OPERATING SYSTEM CONCEPTS AND OPERATING SYSTEM DESIGN ALGORITHMS

CS / 262

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INTRODUCTION

This project is going to be developed in a partial fulfilment of the requirements for the award of the Diploma in Computer Studies.

The goal of this project is the production of a simulation package to present, explain and actually simulate algorithms, schemes taught in the "Advanced Operating System Concepts" and "Operating System Design" courses at Higher Technical Institute.

The project objectives are the following:

To analyse, design and develop a user-friendly simulation package to present, explain and actually simulate algorithms taught in the courses mentioned above.

The use of a graphic presentation method for the results was required, so we have decided to use the combination of Turbo Pascal and Microsoft Access, which both support the design of screens. Turbo Pascal is used for the main part of the project, that is the implementation of the algorithms, because it supports the use of graphics. This will make the system more attractive and will motivate the user to use it with pleasure and not just because he is forced to do so.

OSCSP is going to include the Example and Practice sessions among all other options. Both sessions can help the user in understanding the various

aspects better and easily. The user can input his own data and practice himself and compare the results with different numbers.

Charts and images are going to be designed on the screen in order to illustrate graphically the implementation of the algorithms.

Finally, On line help is going to be provided for both types of screens. Explanations of all buttons used together with additional information concerning the entire system will be provided.

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CHAPTER 3 – DETAILED DESIGN AND IMPLEMENTATION PHASE

CHAPTER 4 – INSTALLATION PHASE

CHAPTER 5 – REVIEW PHASE

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B – SDLC Activities

C – Gantt Chart

D – Processing

E – Data Dictionary

F – Module Structure Charts

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