HIGHER PROJECT NO TECHNICAL 1376

PHARMACY STOCK CONTROL SYSTEM

Project report submitted by

KOKKINOS PANAYIOTIS

In part satisfaction of the award of Diploma in Computer Studies of the Higher Technical Institute, Cyprus

Project Supervisors : Dr. C. Schizas, BSc(Hons)

Phd(Lon), CEng, MIEE, MIEEE, FABAC,

Lecturer, Computer Studies Course,

HTI, Nicosia.

Miss M. Tsinda MSc BSc in Computer Science, Lecturer, Computer Studies Course, HTI, Nicosia.

External Assesor : Mr. M. Adamou

Type of Project : INDIVIDUAL

June - 1938

INTRODUCTION TO PHARMACY STOCK CONTROL SYSTEM

The Stock Control term is very familiar to environments that handle vast amounts of items on permanent basis. It represents an integrated system that processes the stock by following a route of predefined activities and processes. The better the designing of the activities and processes the better is the processing of stock within the system.

The development of computer hardware provided a powerfull tool in the hands of Stock Control system analysts. Day by day the manual processes that were used, since the last decate, for handling of stock are becoming computerized, efficient, highly reliable. The aim of today's Stock Control System analysis is to convert those manual processes and activities to be used in a computer environment.

The Pharmacy Stock Control System was developed almost from scratch to meet computer requirments. The processes and activities even not logically converted , physically they were changed a lot. With the help of todays technology activities were turned to be time and cost effective. The overall reliability of the system was increased to maximum and the system become much more profitable.

The uniquess of the presented project does not lies on the fact that manual stock control procedures were identified and turned to computerized ones but on the fact that specific pharmacls+ needs were also concidered and taken into account for the development of the project. The result of this attempt is a complete computerized Stock Control System that

satisfies the special requirments of Pharmacies environment.

TABLE OF CONTENTS

Phase\Activity	Page
THE INVESTIGATION PHASE	
1. INITIAL INVESTIGATION	1,
1.1 Introduction.	1
1.2 Description Of The Existing Stock Control System.	2.
1.3 Findings.	5
1.3.1 Keeping Static Information About Each Item.	5
1.3.2 Recording Versatile Information	6
About Each Item.	
1.3.3 Preparation Of Orders.	6
1.3.4 Keeping And Accessing Information	
About Suppliers.	7.
1.3.5 Recording Of Special Activities.	7:
1.3.6 Preparing Of Labels.	8
1.4 Conclusion.	8,
1.5 Reccomendations.	8
2. FEASIBILITY STUDY.	10
2.1 Introduction.	10
2.2 New System Conciderations.	10
2.3 Feasibility Study Conciderations.	14
2.3.1 Operational Feasibility.	14
2.3.2 Technical Feasibility.	15
2.3.3 Schedule Feasibility.	15
2.3.4 Human Factors Feasibility.	15
2.4 Proposed solutions.	16
2.4.1 Buy A Ready Made Stock Control Package.	16
2.4.2 Develop A New Tailor Made	
Stock Control Package.	17
2.5 Conclusion.	17
2.6. Suggestions.	18
3. EXISTING SYSTEM REVIEW	19

3.1 Introduction.	19
3.2 Review Of Existing System Processes.	19
3.3 Data Stores/Inputs/Outputs	
Of The Existing System.	20
3.3.1 Data Stores.	20
3.3.2 Inputs.	21
3.3.3 Outputs.	21
3.4 Current System Defficiencies.	22
4. NEW SYSTEM REQUIRMENTS	23
4.1. Introduction	23
4.2 User Specification Document.	23
4.2.1 Overview Narratives.	23
4.2.2 New System Processes.	24
4.2.2.1 Write New Item Details.	24
4.2.2.2 Write New Supplier Details.	25
4.2.2.3 Write Category Of Items.	25
4.2.2.4 Sell Items.	25
4.2.2.5 Write Order Details.	26
4.2.2.6 Write Receive In Items Details.	26
4.2.2.7 Write Losses/Damages Details.	27
4.2.2.8 Write Return From Customers.	27
4.2.2.9 Write Return To Suppliers.	27
4.2.2.10 Write Payments To Suppliers.	28
4.2.2.11 Prepare Labels.	28
4.2.2.12 Prepare Activity Report.	28
4.2.2.13 Prepare Stock Taking Report.	29
4.2.2.14 Prepare Suppliers Report.	29
4.2.3 New System Inputs.	30
4.2.4 New System Outputs.	30
4.2.5 User Interface With The System.	31
5. NEW SYSTEM DESIGN	33
5.1 Introduction.	33
5.2 New System Design Specification.	33
5.2.1 Data Stores.	33
5.2.2 Normalization Of Files.	34
.5.2.3 Performance Critiria.	35

5.2.4 Securities & Controls.	36
5.2.5 Hardware Requirments.	36
6. IMPLEMENTATION AND INSTALLATION PLANNING	38
6.1 Preliminary Detailed Design.	38
6.2 Preliminary Test Plan.	38
6.3 User Training Outline.	39
6.4 Preliminary Installation Plan.	39
DETAILED DESIGN AND IMPLEMENTATION PHASE	
7. TECHNICAL DESIGN	40
7.1 Introduction	40
7.2 System Flowcharts.	40
7.2 Structure Chart.	40
7.4 Software Conciderations.	40
8. TEST SPECIFICATIONS AND PLANNING	42
PROJECT CONCLUSION	43

APPENDIX A

Data Flow Diagrams Context Diagram Cost/Benefit Analysis

APPENDIX B

System Outputs/
System Inputs/
Data Stores /
Zero Diagram/

APPENDIX C

System Flowcharts/
Input,Output formats/
Data Access Diagram
Structure chart.