## SAINT EZEKIEL MORENO HEALTHCARE MANAGEMENT SYSTEM

A Project Paper Proposal

Presented to the Faculty of the

Department of Information Technology

University of Negros Occidental – Recoletos

In Partial Fulfillment
of the Requirements for the Degree
Bachelor of Science in Information Systems

by
Gabriel Francis M. Banua
Alson John R. Bayon-on

Alessander Neal L. Rubiato

## LIST OF FIGURES

1. Organizational Chart of SEMHC	3
2. Context DFD of SEMHC	7
3. Second Explosion DFD-Patient Profiling	8
4. Second Explosion DFD-Health Services	9
5. Second Explosion DFD-Inventory	10
6. System Diagram of SEMHC	11
7. Registration Form for Children (14 years old and below – page 1)	25
8. Registration Form for Children (14 years old and below)	26
9. Registration Form (Adults) – page 1	27
10. Registration Form (Adults) – pages 2 and 3	28
11. Prescription Slip	29
12. Hematology Report Form	30
13. Fecalysis Report Form	31
14. Blood Chemistry Form	32
15. Urinalysis Report Form	33
16. Entity-Relationship Diagram of SEMHCMS	36
17. Use Case Diagram of SEMHCMS	54
18. Decomposition Chart of SEMHCMS	61
19. Login Interface	63
20. Home Interface	63
21 Add Patient Interface	64

22. View Patient Interface	65
23. Set Schedule Interface	65
24. View Schedule Interface	66
25. Add Medicine Interface	67
26. View Inventory Interface	67
27. Add New User Interface	68
28. View Users Interface	69
29. Reports Interface	69
30. Maintenance Interface	70
31. Blood Chemistry Interfce	71
32. Fecalysis Interface	71
33. Lab Request Interface	72

## LIST OF TABLES

1. Patient	37
2. Patient Medical Issue	38
3. Adult	39
4. Laboratory Test	40
5. Physician	40
6. Consultation	41
7. Schedule	41
8. Treatment	42
9. Medical Record	42
10. Blood Chemistry	43
11. Blood Examination	44
12. Medicine	45
13. Fecalysis	46
14. Supplier	46
15. Hematology	47
16. Urinalysis	48
17. Services	49
18. Medtech	49
19. Pathologist	50
20. Register Patient	55
21 Manage Patient Record	56

22. Manage Consultation Schedule	57
23. Manage Inventory	58
24. Manage Laboratory Records	59
25. Generate Reports	60

## TABLE OF CONTENTS

LIST	JST OF FIGURES		
LIST	Γ OF TA	BLES	iv
Chap	pter		
I.	INTR	ODUCTION	1
	1.1	Organizational Background	2
	1.2	Organization Mission	
	1.3	Organizational Unit Description	
	1.4	Current System Description	
II.	PROJ	ECT CHARTER	12
	2.1	Project Objectives	12
	2.2	Project Conception	
	2.3	Project Statement	
	2.4	Initial Scope of the Project	
	2.5	Project Vision	
	2.6	Business Constraints	
	2.7	Technology Constraints	18
	2.8	Project Strategy	
	2.9	Project Documentation and Communication	
	2.10	Project Organization and Staffing	
III.	FORM	MS AND DATA ANALYSIS	24
	3.1	Form Description	24
	3.2	Data Analysis	34
	3.3	Data Dictionary	
IV.	PROJ	ECT TECHNICALITY	
	4.1	System Project Scope	51
	4.2	Usage Scenario.	53
	4.3	Major Software Functions	61
	4.4	Performance Issues and Management of Technical Constraints	61
	4.5	Software Interface Description	

V.	PROJECT MANAGEMENT		
	5.1	Project Cost Estimates	74
	5.2	Project Cost and Benefit Analysis	74
	5.3	Project Schedule	75
	5.4	Project Resources	76
APPE	NDICE	ES	
	A.	Mutual Agreement Form	79
	B.	Project Paper Proposal	80
	C.	Gantt Chart	83
	D.	PERT Table	84
	E.	PERT Diagram	85
	F.	Group Logo	86
	G.	Application Logo	87
	H.	Minutes of the Capstone Project Proposal Defense	88
	I.	GOT Result	
	J.	Cost-Benefit Analysis	90
	K.	System Budget	
	L.	Network Topology	
BIBLI	OGRA	NPHY	93