



Nilgala Drinking Water Systems Pvt Ltd.

STOCK MANAGEMENT SYSTEM

National Institute of Business Management

Of

Management Information System division

Diploma in Computer System Design 16.3(DCSD 16.3)

Supervised by

Ms.R L De Zoysa (*Consultant/Lecturer*)

Developed by

D0163041	Liyanage R L S
D0163039	Lakshan K A R
D0163029	Hewavitharana H V S M
D0163024	Haputhanthiri R N

“The project is submitted in partial fulfillment of the requirement of the Diploma of Computer System Design of National Institute of Business Management.”

January 2018

DECLARATION

I certify that this project does not incorporate without acknowledgement, any material previously submitted for a Diploma in any institution and to the best of my knowledge and belief, it does not contain any material previously published or written by another person or myself except where due reference is made in the text. I also hereby give consent for my project report, if accepted, to be made available for photocopying and for interlibrary loans, and for the title and summary to be made available to outside organizations.

Also we declare that following student also worked in this project:

Candidate Signature:

.....
Liyanage R L S

.....
Lakshan K A R

.....
Hewavitharana H V S M

.....
Haputhanthiri R N

APPROVAL

The project “**Stock Management System (SMS)**”, submitted by Liyanage R. L. S. ID: D0163041, Lakshan K. A. R. ID: D0163039, Hewavitharana H. V. S. M. ID: D0163029, Haputhanthiri R. N. ID: D0163024 Division of Management Information System , National Institute of Business Management under the supervision of Ms.R L De Zoysa (*Consultant/Lecturer*) Division of Management Information System, has been accepted as satisfactory for the requirements for the Diploma in Computer System Design and approved as to its style and contents.

Approved By

Ms.R L De Zoysa
Consultant/Lecturer
Division of MIS

ABSTRACT

To keep pace with new technology and tactics, **Stock Management System(SMS)** is a software solution, which allows a particular place to manage a stock. The Stock Management System is a real-time stock database capable of connecting store. This can be used to track the stock of a single store. The goal is to reduce the strain of tracking rather than to handle all store maintenance. Further features may include the ability to generate reports of sales, but again the interpretation is left to the management. In addition, since theft does occasionally occur, the system provides solutions for confirming the store stock and for correcting stock quantities. We intend to use the systems development life cycle (SDLC) which is a conceptual model used in project management that describes the stages involved in an information system development project. We also apply Database Normalization for effective organizing data in database to our project. Which is help us to faster searching and sorting. HTML, CSS (*Bootstrap Framework*), JavaScript and jQuery, other plugins and PHP will be used to achieve the project because of its flexibility. MySQL Server will be used as the database management system.

CONTENT

✓	Declaration	ii
✓	Approval	iii
✓	Abstract	iv
✓	Content.....	v
✓	List of Figures.....	vi
✓	List of Tables.....	viii
✓	List of acronyms and abbreviations.....	xi
✓	Acknowledgement.....	x

Chapters	Title	Page no
1	INTRODUCTION	1
	1.1 Company Overview	2
	1.2 Background of the Project	3
	1.3 Weakness of the Existing system	4
	1.4 Aims and Objectives	5
	1.5 Proposed Solution	6
	1.6 Expected Outcome	9
2	SYSTEM ANALYSIS	10
	2.1 UML Diagrams	11
	2.2.1 Use Case Diagram for Existing System.....	11
	2.2.2 Use Case Diagram for Proposed system	12
	2.2.3 Class Diagram for Proposed System	13
	2.2.4 Sequence Diagram for Proposed System	14
	2.2 ER Diagram for Proposed system.....	21
3	SYSTEM DESIGN	22
	3.1 Database Design	23
	3.2 Interface Design	34
	3.3 Report Design	74
4	LIMITATION & FUTURE WORK, CONCLUSION	82
	8.1 Limitation	83
	8.2 Future work	83
	8.3 Conclusion	84
5	REFERENCES	85
	9.1 References	86
	9.1.1 Websites	86
	9.1.2 Books	86

LIST OF FIGURES

Figure No	Name of figure	Page no
Figure 3.2.01	Login	34
Figure 3.2.02	Manager Dashboard	35
Figure 3.2.03	Reports	36
Figure 3.2.04	Send Messages	37
Figure 3.2.05	Add or remove user	38
Figure 3.2.06	Manage user	39
Figure 3.2.07	Profile settings	40
Figure 3.2.08	Stock Manager Dashboard	41
Figure 3.2.09	View Raw-materials	42
Figure 3.2.10	Add raw-material	43
Figure 3.2.11	Edit raw-material	44
Figure 3.2.12	Remove raw-material	45
Figure 3.2.13	Issue raw-materials	46
Figure 3.2.14	View production	47
Figure 3.2.15	Add new product item	48
Figure 3.2.16	Edit product item	49
Figure 3.2.17	Remove product item	50
Figure 3.2.18	Add production to stock	51
Figure 3.2.19	Place sales order	52
Figure 3.2.20	View sales orders	53
Figure 3.2.21	Print Sales order	54
Figure 3.2.22	Remove Sales order	55
Figure 3.2.23	Place purchase order	56
Figure 3.2.24	View purchase order	57
Figure 3.2.25	Generate GRN	58
Figure 3.2.26	Cancel Order	59
Figure 3.2.27	Remove Order	60
Figure 3.2.28	Print Purchase order	61
Figure 3.2.29	Product Returns	62
Figure 3.2.30	Row-materials Returns	63
Figure 3.2.31	Damaged product Returns	64
Figure 3.2.32	Damaged Raw-materials Returns	65
Figure 3.2.33	View Supplier	66
Figure 3.2.34	Add Supplier	67
Figure 3.2.35	Edit Supplier	68
Figure 3.2.36	Remove Supplier	69
Figure 3.2.37	View Customer	70
Figure 3.2.38	Add Customer	71
Figure 3.2.39	Edit Customer	72
Figure 3.2.40	Remove Customer	73
Figure 3.3.01	Damaged Production Report	74
Figure 3.3.02	Damaged Row Material Report	75
Figure 3.3.03	Issue Production Report	76

Figure 3.3.04	Product Returns Report	77
Figure 3.3.05	Purchase Order Item Report	78
Figure 3.3.06	Purchase Order Report	79
Figure 3.3.07	Row Material Returns Report	80
Figure 3.3.08	Sales Order Report	81

LIST OF TABLES

T No	Table Name	Page no
01	addproduct	23
02	addproductitem	23
03	customer	24
04	damproreturn	24
05	damproreturnitem	25
06	damrmreturn	25
07	damrmreturnitem	26
08	grn	26
09	grnitem	27
10	issuerm	27
11	issuermitem	27
12	porderitem	28
13	preturnitem	28
14	production	29
15	productreturn	29
16	purchaseorder	30
17	rmitem	30
18	rmreturn	31
19	rmreturnitem	31
20	salesorder	32
21	sorderitem	32
22	supplier	33

LIST OF ACRONYMS AND ABBREVIATIONS

NO	Abbrev	Full Name
1	SMS	Stock Management System
2	XAMPP	Cross-platform Apache MySQL PHP Perl
3	PHP	Hypertext Pre-processor
4	HTML	Hypertext Mark-up Language
5	CSS	Cascading Style Sheets
6	SQL	Structured Query Language
7	UML	Unified Modelling Language
8	NDWS	Nilgala Drinking Water System
9	PK	Primary Key
10	FK	Foreign Key

ACKNOWLEDGEMENT

We are deeply indebted to our project supervisor Ms. R L De Zoysa (Consultant/Lecturer), School of Computing, National Institute of Business and Management (NIBM). Her scholarly guidance, important suggestions, endless patience, constant supervision, valuable criticism and enormous amount of work for going through our drafts and correcting them and generating courage from the beginning to the end of the research work has made the completion of the project possible. We would like to express our deep gratitude to our Teachers and friends for their support and help to implement our works. The discussions with them on various topics of our works have been very helpful for us to enrich our knowledge and conception regarding the work. Last but not least, we are highly grateful to our parents and family members for their support and constant encouragement, which have always been a source of great inspiration for us.