

# Content Management System for E-Commerce Website

Project Report



Supervisor  
Mrs. Saima Jawad

Submitted by

Mohammad Ali  
01-235142-034

Tabinda Rahman  
01-235142-077

**Department of Computer Science,  
Bahria University, Islamabad.**

# Certificate

It is to certify that the final year project of BS (IT) “Content Management System for E-Commerce Website” was developed by Mohammad Ali & Tabinda Rahman under the supervision of “Mrs. Saima Jawad” and in her opinion; it is fully adequate, in scope and quality for the degree of Bachelors of Science in Information Technology.

Approved by . . . :

Supervisor: Mrs. Saima Jawad

---

Internal Examiner:

---

External Examiner:

---

Project Coordinator:

---

Head of the Department: Dr. Faisal Bashir (Associate Professor)

---

# Abstract

The web application provides a medium for sellers to sell their products online rather than going through a long hectic process to create a complete website for them. In the midst of the growing of technology and E-commerce, the need for better platforms is growing by the users and the sellers as well, so the main aim of this project is to develop a Content Management System (CMS) specially for Businesses and sellers. A fully functional and fully automated web application with an easy to use dashboard for users to build their preferred web-online shop easily.

A complete E-commerce dashboard for the vendors to create their web-online shop on the web application, there can be a number of different sellers on the web application, managed by a single administrator.

# Dedication

We dedicate this project to all those humble beings who have aided us in any way to become what we are today. Whose scarifies seeded our success; especially our parents who have felt our pain beyond us and they taught us that the best kind of knowledge to have is that which is learned for its own sake and that the largest task can be accomplished if it is done one step at a time, they showered us with never ending prayers and support. We deem them as a divine source of inspiration.

# Acknowledgments

All praise is to Almighty Allah who bestowed upon us a minute portion of his boundless knowledge by virtue of which we are able to accomplish this challenging task. We are greatly indebted to our supervisor “Mrs. Saima Jawad”. Without her personal supervision, advice and valuable guidance, completion of this thesis would have been doubtful. We are deeply indebted to her for her encouragement and continual help during this work.

MOHAMMAD ALI AND TABINDA RAHMAN

BAHRIA UNIVERSITY ISLAMABAD, PAKISTAN

DEPARTMENT OF COMPUTER SCIENCE

# Table of Contents

Abstract.....	i
Dedication.....	ii
Acknowledgments.....	iii
Chapter 1.....	1
INTRODUCTION .....	1
1.1 Overview.....	2
1.2 Project Background.....	2
1.3 Problem Description .....	3
1.4 Project Objectives .....	3
1.5 Project Scope .....	4
Chapter 2.....	5
LITERATURE REVIEW .....	5
2.1 Overview.....	6
2.2 Related Work .....	6
2.2.1 Word Press.....	6
2.2.3 Magento .....	9
2.3 Context.....	10
Chapter 3.....	11
REQUIREMENT SPECIFICATIONS .....	11
3.1 Overview.....	12
3.2 Proposed System.....	12

3.3 Requirement Specifications .....	12
3.3.1 Functional Requirements .....	13
3.3.2 Non-Functional Requirements .....	13
3.4 Use Cases .....	15
Chapter 4.....	23
<b>SYSTEM DESIGN .....</b>	<b>23</b>
4.1 Overview.....	24
4.2 System Architecture.....	24
4.3 High Level Design .....	25
4.4 System Work Flow .....	26
4.5 GUI Design.....	28
4.6 Data Flow Diagram.....	29
4.7 Entity Relationship Diagram.....	31
Chapter 5.....	32
<b>SYSTEM IMPLEMENTATION .....</b>	<b>32</b>
5.1 Overview.....	33
5.2 System Architecture.....	33
5.3 System Internal Components .....	34
5.4 Tools and Technology Used .....	35
5.4.1 PHP .....	35
5.4.2 HTML .....	35
5.4.3 CSS .....	35
5.4.4 Bootstrap.....	36

5.4.5 MYSQL.....	36
5.4.6 AJAX .....	36
5.5 Processing Logic Flow.....	37
Chapter 6.....	38
SYSTEM TESTING AND EVALUATION .....	38
6.1 Overview.....	39
6.2 Graphical User Interface (GUI) Testing .....	39
6.3 Usability Testing.....	40
6.4 Software performance Testing.....	40
6.5 Compatibility Testing .....	40
6.6 Exception Handling .....	40
6.7 Load Testing .....	41
6.8 Security Testing .....	41
6.9 Installation Testing.....	41
6.10 Test cases .....	42
Chapter 7.....	46
CONCLUSION.....	46
7.1 Overview.....	47
7.2 Major Accomplishment .....	47
7.3 Future Enhancements.....	47
Appendix A.....	48
USER GUIDE.....	48



A.1 Overview .....	49
A.2 Home Page .....	49
A.3 Shopping Cart .....	50
A.4 Checkout Page.....	51
A.5 New Seller Register/Login.....	52
A.6 Seller E-commerce Dashboard.....	53
A.7 Administrator Login.....	54
A.8 Administrator Dashboard.....	55
REFERENCES .....	56

# List of Figures

Fig 2.2.1 Word Press.....	7
Fig 2.2.2 Open Cart.....	8
Fig 2.2.3 Magento.....	9
Fig 3.4 Main Use Case Diagram.....	15
Fig 3.4.1 Use Case Register/Create Account.....	17
Fig 3.4.2 Use Case Seller/Vendor Dashboard .....	18
Fig 3.4.3 Use Case Place Product.....	19
Fig 3.4.4 Use Case Select Payment Gateway .....	20
Fig 3.4.5 Use Case Keep Tracks of Order .....	21
Fig 4.2 System Architecture .....	24
Fig 4.3 High Level Design.....	25
Fig 4.4 System Work Flow .....	26
Fig 4.5 GUI Design.....	28
Fig 4.6 Data Flow Diagram .....	30
Fig 4.7 Entity Relationship Diagram .....	31
Fig A.2 Home Page.....	49
Fig A.3 Shopping Cart .....	50
Fig A.4 Checkout Page .....	51
Fig A.5 New Seller Register/Login .....	52
Fig A.6 Seller E-Commerce Dashboard .....	53
Fig A.7 Administrator Login .....	54
Fig A.8 Administrator Dashboard.....	55