

Freelance Construction & Management System

(Mark Constructions)

By

**Mustafa Ahmad
01-133102-150**

**Abdur Rahman Khan
01-133102-108**

Supervised by

Sir FazalWahab



Session: 2010 – 2014

A Report is submitted to Department of Computer Science and Engineering
Bahria University, Islamabad
In partial fulfillment of requirement for the degree of BSE

Dedication

We would like to dedicate this project to our parents for their endless love who have always been there for us. They have given us motivation and encouragement and taught us how to handle a challenging situations and taught us that the paramount of knowledge is that which is learn for its own objective.

Acknowledgements

We take this chance to express our thoughtful gratitude & profound regards to our guide Sir Fazal Wahab for his emblematic guidance, monitoring & persistent encouragement throughout the course of this project. The dedication, help & supervision given by him from time to time shall carry us a long way in the excursion of life on which we are almost to embark.

Our genuine thanks & appreciations also go to my colleagues in facilitating, supporting, developing the project and those who have enthusiastically helped us out with their colossal capabilities.

Abstract

One of the most important features of this freelance centralized system is to provide environment for the clients to find the perfect people/contractors which are suitable for their work, for this purpose we are using the reverse bidding technique. Clients will be posting their desire projects & will select the single contractor from many through reviving their bids and proposals. This is much easier, secure & resourceful than the tender system. Since the increase number of urban and rural development projects it is difficult for a layman to find the perfect people for their job. By developing this system it will solve all the problems facing by the people who want to start new construction / Designing / Development but fails to fulfil their wishes. This centralized system provides services in a very convenient & user friendly way which others fail to do so & solves all the complications by which the clients fear to do online businesses & contacts. Providing a secure facility to our customers, contractors, stakeholders, in the market place over the competitors is the core advantage. This System is very flexible and effortlessly understandable for anyone having a little bit knowledge of internet business.

Table of Contents

Certificate	i
Dedication	ii
Acknowledgements	iii
Abstract	iv
Table of Contents	v
List of Figures	viii
List of Tables	x
1. Introduction	
1.1 Project Overview.....	9
1.2 Project Description.....	9
1.3 Project Objectives.....	9
1.4 Project Scope.....	10
1.5 Report Summary.....	11
2. Literature Review	
2.1 Literature Review.....	13
3. Project Description	
3.1 Project Description.....	15
3.2 Use case	16
3.3 Functional and non-functional requirements.....	18
4. Implementation / Design	
4.1 System architecture.....	27
4.2 System Design	27
4.3 Implementation.....	42
5. System Testing and Evaluation	
5.1 System testing.....	52
5.2 System Evaluation.....	52
6. Conclusion	57
6.1 Benefits of this project	
6.2 Future Enhancements	
7. References	58

List of Figures

Use Case Diagram 1	16
Use Case Diagram 2	17
System architecture Diagram	27
Activity Diagram 1	30
Activity Diagram 2	30
Entity relationship diagram	32
Class Diagram	33
Sequence Diagram 1	34
Sequence Diagram 2	35
Sequence Diagram 3	36
Sequence Diagram 4	37
Sequence Diagram 5	38
Sequence Diagram 6	39
Sequence Diagram 7	40
Sequence Diagram 8	41
Visual studio figure	42
SQL Server figure	42
C# figure	43
Screen Shot 1	43
Screen Shot 2	44
Screen Shot 3	44
Screen Shot 4	45
Screen Shot 5	45
Screen Shot 6	46
Screen Shot 7	46
Screen Shot 8	47
Screen Shot 9	47
Screen Shot 10	48
Screen Shot 11	48
Screen Shot 12	49
Screen Shot 13	49
Screen Shot 14	50
Screen Shot 15	50

List of Tables

Functional Requirements Tables	18
Table no. 3.3-1	18
Table no. 3.3-2	18
Table no. 3.3-3	18
Table no. 3.3-4	19
Table no. 3.3-5	19
Table no. 3.3-6	19
Table no. 3.3-7	20
Table no. 3.3-8	20
Table no. 3.3-9	20
Table no. 3.3-10	21
Table no. 3.3-11	21
Table no. 3.3-12	21
Table no. 3.3-13	22
Table no. 3.3-14	22
Table no. 3.3-15	22
Table no. 3.3-16	23
Table no. 3.3-17	23
Table no. 3.3-18	23
Table no. 3.3-19	24
Table no. 3.3-20	24
Table no. 3.3-21	24
Test Cases Tables	52
Table no.6.2-1	52
Table no.6.2-2	52
Table no.6.2-3	52
Table no.6.2-4	53
Table no.6.2-5	53
Table no.6.2-6	53
Table no.6.2-7	53
Table no.6.2-8	54
Table no.6.2-9	54
Table no.6.2-10	54
Table no.6.2-11	54
Table no.6.2-12	54
Table no.6.2-13	55
Table no.6.2-14	55