

Final Year Project Report
E-Construct Provider System (ECP)



Project Advisor:
Sir. Ahtisham Ali

Submitted By:

Muhammad Shahzaib khan	13005065199
Ali Raza	13005065155
Aqsa Nawaz	13005065281
Talha Asif	13022020111

Session
2013-2018

University of Management and Technology
C-II Johar Town Lahore Pakistan

Dedication

We dedicate this project to our client Ahmad Hassan Khan Kakar. Who provided us this platinum opportunity to complete our final year project for his business of Supply Construction Material and entrusted us to complete this project in due time and in handsome budget.

Final Approval

Panel of Examiners

Head of Department

Department of Software Engineering
UMT Lahore

Program Director (Final Year Projects)

Department of Software Engineering
UMT Lahore

Supervisor

Department of Software Engineering
UMT Lahore

Co-Supervisor

Acknowledgment

A special thanks to our project advisor, Sir Ahtisham Ali, without their support, guidance and help we would not have made it this far. We are also grateful to UMT's management for giving us the facility of university lab and other resources to complete our project in time with best effort.

Project Title	E-Construct Provider System
Objective	The main purpose of this project is to provide user friendly interface that can manage their assets effectively.
Undertaken by	School of System and Technology
Supervised by	Sir Ahtisham Ali
Starting Date	15/07/2017
Submission Date	28/10/2017
Tools Used	PHP, JAVA Script, JQUERY, CSS, HTML, and MYSQL.
Operating System	Windows, Android and IOS.
Documentation	MS Office.

Plagairism Report

Abstract

Manual documented of supply raw material is a tedious job. Our client in GULF they supply construction material to different Organizations. They have different size of truck that used for deliver their services in a state and as well in other. If a company need raw material for construction they send their requirements through website, by email, or call to us to get quotation. Company's staff/worker make a complete quotation according to their requirements and send them. If we do this manually to check this service is available in this week or month then this become to headache. The objective of this system is to give user friendly system to manage their service and check and balance. The Purpose system is only for company to manage their all clients and vendor trip record, Employees Information, Bank Accounts and tracking of loss and profit.

REVISION CHART

Version	Primary Author(s)	Description of Version	Date Completed
Draft	Muhammad Shahzaib khan, Ali Raza	Initial draft created for distribution and review comments	March,2017
Preliminary	Muhammad Shahzaib khan, Ali Raza	Second draft incorporating initial review comments, distributed for final review	May,2017
Final	Muhammad Shahzaib khan, Ali Raza, Aqsa Nawaz	First complete draft, which is placed under change control	September, 2017
Revision 1	Muhammad Shahzaib khan, Syed Aqsa Nawaz	Revised draft, revised according to the change control process and maintained under change control	November, 2017
Revision 2	Muhammad Shahzaib khan, Ali Raza, Aqsa Nawaz, Tlha Asif	Revised draft, revised according to the change control process and maintained under change control	January,2018

CONTENTS

CONTENTS.....	1
LIST OF FIGURES	4
1. INTRODUCTION	7
1.1 MOTIVATIONS	7
1.2 PROJECT OVERVIEW	7
1.3 PROBLEM STATEMENT	7
1.4 OBJECTIVES	8
2. DOMAIN ANALYSIS	9
2.1 CUSTOMER	9
2.2 STAKEHOLDERS	9
2.3 AFFECTED GROUPS WITH SOCIAL OR ECONOMIC IMPACT	9
2.4 DEPENDENCIES/ EXTERNAL SYSTEMS	9
2.5 REFERENCE DOCUMENTS	9
3. REQUIREMENTS ANALYSIS	10
3.1 TYPES OF REQUIREMENTS	10
3.2 LIST OF ACTORS	13
3.3 LIST OF USE CASES	13
3.4 SYSTEM USE CASE DIAGRAM	15
3.5 EXTENDED USE CASES	16
4. SYSTEM DESIGN	39
4.1 SYSTEM ARCHITECTURE DIAGRAM	39
4.2 CLASS DIAGRAM	40
4.3 SEQUENCE DIAGRAMS	41
4.3.1 Login	41
4.3.2 Add Vehicle	42
4.3.3 Update Vehicle.....	43
4.3.4 Delete Vehicle	44
4.4 ERD DIAGRAM	45
5. IMPLEMENTATION DETAILS	46
5.1 DEVELOPMENT SETUP	46
5.2 CONSTRAINTS	46
5.2.1 Assumptions	46
5.2.2 System constraints	46
5.2.3 Restrictions	46
5.2.4 Limitations	46
6. TESTING	47
6.1 EXTENDED TEST CASES	47
6.1.1 Test Case Login	47
6.1.2 Test case View Dashboard	48

6.1.3	Test case Add vehicle	49
6.1.4	Test case Update vehicle	50
6.1.5	Test case Delete Vehicle	51
6.1.6	Test case view vehicle list.....	52
6.1.7	Test case Add driver	53
6.1.8	Test case Update Driver	54
6.1.9	Test case Delete Driver	55
6.1.10	Test case Add Vehicle Expenses	56
6.1.11	Test case Update Vehicle Expenses	57
6.1.12	Test case Add Vendor Trip	58
6.1.13	Test case Update Vendor side trip	59
6.1.14	Test case Delete Vendor side trip	60
6.1.15	Test case Add client side trip	61
6.1.16	Test case Update client side trip	62
6.2	PROTOTYPE (RID vs PID)	63
6.3	TEST CASES (RID vs TID)	64
6.4	TEST CASES (UCID vs TID)	65
7.	RESULTS/OUTPUT/STATISTICS	66
7.1	%COMPLETION	66
7.2	%ACCURACY	66
7.3	%CORRECTNESS	66
8.	CONCLUSION	67
9.	FUTURE WORK.....	68
10.	BIBLIOGRAPHY	69
10.1	BOOKS	69
10.2	JOURNALS	69
10.3	ARTICLES	69
10.4	REAEARCH PAPAERS	69
10.5	OTHER REFERENCES	69
11.	APPENDIX	70
11.1	GLOSSARY OF TERMS	70
11.2	PRE-REQUISITES	71

Definitions and Acronyms

Acronym	Definition
UMT	University of Management and Technology
PPM	Process per minute
VWATP	Vehicle web application with third party Application Program Interface.
API	Application Programming Interface
UCID	Use case identity document
PID	Prototype identity document
TID	Test case identity document
RID	Requirement identity document
ERD	Entity relationship diagram
SAD	System architecture diagram
SD	Sequence diagram
DCT	Decision coverage table

Table 1: Table of Acronyms and Definitions

List of Figures

Figure 3.4.1: use case diagram with explanation.....	15
Figure 4.1: System Architecture.....	39
Figure 4.2: Class Diagram.....	40
Figure 4.3: Login Use Case	41
Figure 4.4: Add Vehicle Use Case	42
Figure 4.5: Update Vehicle	43
Figure 4.6: delete Vehicle	44
Figure 4.7: Erd Diagram.....	47

List of Tables

Table 1: table of acronyms and definitions	4
Table 2.1: stakeholders.....	10
Table 3.1: Types of requirmets	14
Table 3.2: Use Case login.....	18
Table 3.3: Use Case View Dashboard.....	19
Table 3.4: Use Case Add Vehicle.....	20
Table 3.5: Use Case Update of vehicle.....	21
Table 3.6: Use Case Delete Vehicle.....	22
Table 3.7: Use Case View vehicle list.....	23
Table 3.8: Use Case Add Driver.....	24
Table 3.9: Use Case Update Driver.....	25
Table 3.10: Use Case Delete Driver.....	26
Table 3.11: Use Case Manage Supplier Trip.....	27
Table 3.12: Use Case Add Supplier Side Trip.....	28
Table 3.13: Use Case Update Supplier Side Trip.....	29
Table 3.14: Use Case Delete Supplier Side Trip.....	30
Table 3.15: Use Case Manage Client Side Trip.....	31
Table 3.16: Use Case Add Client Side Trip.....	32
Table 3.17: Use Case Update Client Side Trip.....	33
Table 3.18: Use Case Delete Supplier Side Trip.....	34
Table 3.19: Use Case Manage Child Admin.....	35
Table 3.20: Use Case Add Child Admin.....	36
Table 3.21: Use Case Update child Admin.....	37
Table 3.22: Use Case Delete Child Admin.....	38
Table 3.23: Use Case Edit profile.....	39
Table 3.24: Use Case Delete profile.....	40
TABLE 6.1: Login.....	48
TABLE 6.2: View Dashboard.....	49
TABLE 6.3: Test case Add Vehicle.....	49
TABLE 6.4: Test case Update Vehicle	50
TABLE 6.5: Test case Update Vehicle	51
TABLE 6.6: Test case View vehicle list	52

TABLE 6.7: Test case Add driver.....	53
TABLE 6.8: Test case Update Driver.....	54
TABLE 6.9: Test case Update Driver.....	55
TABLE 6.10: Test case Add Vehicle Expenses.....	56
TABLE 6.11: Test case Update Vehicle Expenses.....	57
TABLE 6.12: Test case Add Vendor Side Trip	58
TABLE 6.13: Test case update vendor side trip	59
TABLE 6.14: Test case Delete vendor side trip.....	60
TABLE 6.15: Test case Add client side trip.....	61
TABLE 6.16: Test case Update client side trip.....	62
Table 6.17: RID vs. PID	63
Table 6.18: TID vs. RID	64
Table 6.19: UCID vs. TID.....	65

1. INTRODUCTION

1.1 Motivations

The main motivation behind this project is this is client based project. So we have to stick on our client's requirements. Because this is web based application system that helps company's owner to manage their services. We learned a lot in this project like how to focus and stick on client requirements so that business owner can get more benefits as they expected.

1.2 Project Overview

The proposed system is a web application Point OF Sale System. Company supply construction material in Gulf. Client contact with company and give the requirement like Quantity, Quality and Destination. Then Company team member send them a quotation. Company have only Truck Type of vehicles that supply company services.

In this Project we have only one user who interact with system. Admin who will have all the rights to manage the system. Admin can insert all employees' information, clients and Vendor's details and company expenses etc.

In addition admin can add company employees to manage this software. Admin can set role for employees so they can easily manage it.