

**Final Year Project Report  
Event Management System**



**Project Advisor:**Rao Faizan Ali

**Submitted By:**

Noman Akhtar      13005065023

M Tahseen Yousaf   13005065050

**Session**

**2013-2017**

**University of Management and Technology**

**C-II Johar Town Lahore Pakistan**

## **Dedication**

A final year project report presented to the University of Management and Technology Lahore in partial fulfillment of the requirements of the degree of Bachelor in Software Engineering. Our Application is dedicated to our parents and especially we would also like to dedicate this project to our Project advisors because they guided us in a right direction and gave their precious time to us in completion of this project. We discussed our project with them and they gave better suggestions to improve our project.

## Final Approval

### Panel of Examiners

- **Head of Department** \_\_\_\_\_  
Department of Computer Science  
UMT Lahore
  
- **Program Director ( Final Year Projects)** \_\_\_\_\_  
Department of Computer Science  
UMT Lahore
  
- **Supervisor** \_\_\_\_\_  
Department of Computer Science  
UMT Lahore
  
- **Co-Supervisor** \_\_\_\_\_

# Acknowledgment

In the name of Allah, the Most Beneficent and the Most Merciful Alhamdulillah, all praises to Allah for the strengths and His blessing in completing this proposal. Special appreciation goes to my supervisor, Rao Faizan Ali, for his supervision and constant support. His vital help of useful comments and suggestions during the tentative and proposal works have contributed to the success of this research. Not forgotten, my appreciation to my co-supervisor, Bilal Hassan for his support and awareness about this topic. We would like to express my appreciation to the Department of computer Science Head, Dr. Adnan Abid and also to the Program Director, Dr. Hafiz Sajid Mehmood for their support and help towards my Bachelor affairs. My acknowledgement also goes to all the technicians and office staffs of School of System and Technology for their co-operations. Heartfelt thanks to all my friends and to those who indirectly contributed in this research, your kindness means a lot to me. Thank you very much.

|                         |   |
|-------------------------|---|
| <b>Project Title</b>    | <b>Event Management System</b>  |
| <b>Objective</b>        | Making an web based application which will help to event organising company to organise and manage their event more efficiently and smoothly. |
| <b>Undertaken by</b>    | <b>Rao Faizan Ali</b>   |
| <b>Supervised by</b>    | <b>Rao Faizan Ali</b>   |
| <b>Starting Date</b>    | <b>14-09-2016</b>   |
| <b>Completion Date</b>  | <b>10-09-2017</b>   |
| <b>Tools Used</b>       | <b>Brains (Php Storm), Notepad++, MS Word.</b>  |
| <b>Operating System</b> | <b>Android, Microsoft Windows (All versions)</b>  |

## Abstract

Event management system is used to manage all the activity related to event. In any event many service providers work simultaneously and it is very hard to manage these providers. It is also important for event organizer that he has all the contacts details of these service providers so that he can contact them any time to plan an event at given time. To manage all these activity we have developed this software. To get success in the event management business, user should have strong network contacts of service provider. These contacts are essentially providers of specific services who can be mobilized quickly to participate in any given event. To make an event successful event manager needs different service provider like Sound systems services, Lighting providers, Canteen services, stage construction and so on. In any event many service providers work simultaneously and it is very hard to manage these providers. It is also important for event organizer that he has all the contacts details of these service providers so that he can contact them any time to plan an event at given time. . In present system Event Companyhas to do all management work manually. They keep all payment information on papers. There is no system to check the past expenses on any event. To do this they have to check payment register and this task is very time consuming and tiresome.

## REVISION CHART

---

This chart contains a history of this document's revisions. The entries below are provided solely for illustration purposes. Those entries should be deleted until the revision/s they refer to have actually been created.

The document itself should be stored in revision control, and a brief description of each version should be entered in the Revision Control System. A brief description can be repeated in this section. Revisions need not be described elsewhere in the document, unless they explain the document.

| <b>Version</b> | <b>Primary Author(s)</b>       | <b>Description of Version</b>  | <b>Date Completed</b> |
|----------------|--------------------------------|--|-----------------------|
| Draft          | Noman Akhtar<br>Tahseen yousaf | Initial draft created for distribution and review comments   | 08-08-2016            |
| Preliminary    | Noman Akhtar<br>Tahseen yousaf | Second draft incorporating initial review comments, distributed for final review                   | 25-08-2016            |
| Final          | Noman Akhtar<br>Tahseen yousaf | First complete draft, which is placed under change control   | 13-09-2016            |
| Revision 1     | Noman Akhtar                   | Revised draft, revised according to the change control process and maintained under change control | 05-01-2017            |
| Revision 2     | Tahseen yousaf                 | Revised draft, revised according to the change control process and maintained under change control | 15-02-2017            |
| Revision 3     | Noman Akhtar<br>Tahseen yousaf | Revised draft, revised according to the change control process and maintained under change control | 26-010-2017           |

# CONTENTS

---

|   |           |
|---|-----------|
| <b>CONTENTS.....</b>                                    | <b>1</b>  |
| LIST OF FIGURES:.....                                   | 2         |
| LIST OF TABLES:.....                                    | 3         |
| DEFINITIONS AND ACRONYMS.....                           | 4         |
| <b>1. INTRODUCTION.....</b>                             | <b>6</b>  |
| 1.1 MOTIVATIONS.....                                    | 6         |
| 1.2 PROJECT OVERVIEW.....                               | 6         |
| 1.4 OBJECTIVES.....                                     | 7         |
| <b>2. DOMAIN ANALYSIS.....</b>                          | <b>8</b>  |
| 2.1 CUSTOMER.....                                       | 8         |
| 2.2 STAKEHOLDERS.....                                   | 8         |
| 2.3 AFFECTED GROUPS WITH SOCIAL OR ECONOMIC IMPACT..... | 10        |
| 2.4 DEPENDENCIES/ EXTERNAL SYSTEMS.....                 | 11        |
| 2.5 REFERENCE DOCUMENTS.....                            | 11        |
| 2.5.1 <i>Related Projects</i> .....                     | 11        |
| 2.5.1 <i>Feature Comparison</i> .....                   | 12        |
| <b>3. REQUIREMENTS ANALYSIS.....</b>                    | <b>14</b> |
| 3.1 REQUIREMENTS.....                                   | 14        |
| 3.2 LIST OF ACTORS.....                                 | 16        |
| 3.3 CONSTRAINTS.....                                    | 16        |
| 3.4 LIST OF USE CASES.....                              | 17        |
| 3.5 SYSTEM USE CASE DIAGRAM.....                        | 18        |
| 3.5 EXTENDED USE CASES.....                             | 19        |
| 3.6 USER INTERFACES (MOCK SCREENS).....                 | 21        |
| <b>4. DATA FLOW DIAGRAM.....</b>                        | <b>25</b> |
| 4.1 DATA FLOW DIAGRAM LEVEL 0.....                      | 25        |
| 4.2 DATA FLOW DIAGRAM LEVEL 1.....                      | 25        |
| 4.3 DATA FLOW DIAGRAM LEVEL 2.....                      | 26        |
| <b>5. SYSTEM DESIGN.....</b>                            | <b>28</b> |
| 5.1 SYSTEM ARCHITECTURE DIAGRAM.....                    | 28        |
| 5.2 CLASS DIAGRAM.....                                  | 29        |
| 5.3 SEQUENCE DIAGRAM.....                               | 30        |
| 5.4 ACTIVITY DIAGRAM.....                               | 31        |
| 5.5 COMPONENT DIGRAM.....                               | 32        |
| 5.6 ERD(ENTITY RELATIONSHIP DIAGRAM).....               | 33        |
| 5.7 DATA DICTIONARY.....                                | 33        |
| <b>6. IMPLEMENTATION DETAILS.....</b>                   | <b>36</b> |
| 6.1 DEVELOPMENT SETUP.....                              | 36        |
| 6.2 DEPLOYMENT SETUP.....                               | 36        |
| 6.3 CONSTRAINTS.....                                    | 37        |
| 6.3.1 <i>Assumptions</i> .....                          | 37        |
| 6.3.2 <i>System constraints</i> .....                   | 37        |

|            |  |           |
|------------|--|-----------|
| 6.3.3      | <i>Restrictions</i> .....                            | 37        |
| 6.4        | ALGORITHMS .....                                     | 38        |
| <b>7.</b>  | <b>TESTING</b> .....                                 | <b>45</b> |
| 7.1        | EXTENDED TEST CASES .....                            | 45        |
| 7.2        | TRACEABILITY MATRIX .....                            | 48        |
| 7.2.1      | <i>RID vs UCID (requirements vs use cases)</i> ..... | 48        |
| 7.2.2      | <i>Prototypes (RID vs PID)</i> .....                 | 49        |
| 7.2.3      | <i>Test Cases (RID vs TID)</i> .....                 | 49        |
| <b>8.</b>  | <b>RESULTS/OUTPUT/STATISTICS</b> .....               | <b>51</b> |
| 8.1        | %COMPLETION.....                                     | 51        |
| 8.2        | %ACCURACY.....                                       | 51        |
| 8.3        | %CORRECTNESS .....                                   | 51        |
| <b>9.</b>  | <b>CONCLUSION</b> .....                              | <b>52</b> |
| <b>10.</b> | <b>FUTURE WORK</b> .....                             | <b>53</b> |
| <b>11.</b> | <b>BIBLIOGRAPHY</b> .....                            | <b>54</b> |
| 11.1       | BOOKS .....  | 54        |
| 11.2       | ARTICLES.....  | 54        |
| 11.3       | OTHER REFERENCES .....                               | 54        |

## List of Figures:

|  |    |
|--|----|
| Figure 1 Use case diagram .....              | 18 |
| Figure 2 Prototype 1.....                    | 20 |
| Figure 3 Prototype 2.....                    | 21 |
| Figure 4 Prototype 3.....                    | 22 |
| Figure 5 DFD level 0.....                    | 24 |
| Figure 6 DFD level 1.....                    | 24 |
| Figure 7 DFD level 2.....                    | 25 |
| Figure 8 System Architecture Diagram.....    | 27 |
| Figure 9 Class Diagram.....                  | 28 |
| Figure 10 Sequence Diagram.....              | 29 |
| Figure 11 Activity Diagram.....              | 30 |
| Figure 12 Component Diagram.....             | 31 |
| Figure 13 Entity Relation Diagram (ERD)..... | 32 |

## List of Tables:

|   |    |
|---|----|
| Table 1: Table of acronyms and definitions..... | 4  |
| Table 2: Stakeholders.....                      | 17 |
| Table 3: Feature Comparison.....                | 20 |
| Table 4: Data Dictionary 1.....                 | 41 |
| Table 5: Data Dictionary 2.....                 | 42 |
| Table 6: Data Dictionary 3.....                 | 42 |
| Table 7: Data Dictionary 4.....                 | 42 |
| Table 8: Test Case 1.....                       | 51 |
| Table 9: Test case 2.....                       | 51 |
| Table 10: Test Case 3.....                      | 52 |
| Table 11: Test Case 4.....                      | 52 |
| Table 12: Test Case 5.....                      | 53 |
| Table 13: Test Case 6.....                      | 53 |
| Table 14: RID vs UCID.....                      | 54 |
| Table 15: RID vs PID.....                       | 54 |
| Table 16: RID vs TID.....                       | 55 |

## Definitions and Acronyms

Table 1: Table of acronyms and definitions

| <b>Acronym</b>        | <b>Definition</b>                                |
|-----------------------|--|
| EMS                   | Event Management System                          |
| GPS                   | Global positioning system                        |
| DFD                   | Data flow diagram                                |
| ERD                   | Entity relationship diagram                      |
| RID                   | Requirements ID                                  |
| UCID                  | Use case ID                                      |
| TID                   | Test ID  |
| Web-based application | An application that runs on the Internet         |
| Login                 | A user identification number to enter the system |
| MySQL                 | a query language to interrogate the system       |
| Mock Screens          | These are the dummy prototypes                   |

Provide definitions or references to all the definitions of the special terms and acronyms used within this document

# 1. INTRODUCTION

---

## 1.1 Motivations

Event management system is used to manage all the activity related to event. In any event many service providers work simultaneously and it is very hard to manage these providers. It is also important for event organizer that he has all the contacts details of these service providers so that he can contact them any time to plan an event at given time. To manage all these activity we have developed this software. To get success in the event management business, user should have strong network contacts of service provider. These contacts are essentially providers of specific services who can be mobilized quickly to participate in any given event. To make an event successful event manager needs different service provider like Sound systems services, Lighting providers, Canteen services, stage construction and so on. In present system Event Company has to do all management work manually.