TABLE OF CONTENTS

ACKNOWLEDGMENT iv

EXECUTIVE SUMMARY v

LIST OF FIGURES ix

LIST OF TABLES xi

LIST OF FORMULAS xii

Chapter

1. INTRODUCTION 1
   1. Purpose 3
      1. To Improve Information Dissemination of Different NGO Projects 3
      2. To Strengthen the Linkage Between the NGOs of Different ASEAN countries 3
      3. To Enhance ASEAN NGOs Way of Promoting Their Projects 4
      4. To Help Gain Collaborators for Their Projects 4
   2. Technical Review of Related Systems 4
      1. Updating Project Details 6
      2. NGO Profile Content 6
      3. Media Section in Project Profile 6
      4. Project Collaboration Medium 7
      5. Inquiry and Communication Tools 7
      6. Project Collaboration Suggestions and Notifications 8
   3. Project Scope 8
      1. Countries Included in the Map 8
      2. Non-Government Organizations 9
      3. Users 9
      4. Implementation and Development Platform 9
2. SYSTEM DESCRIPTION 11
   1. System Perspective and General Features 11
      1. Informative Content 12
      2. Up-To-Date Information 13
      3. Adaptive User Interface 13
      4. User-Friendly Environment 14
   2. Operating Environment 14
      1. Hardware Platform 14
      2. Software Tools 15
      3. Operating System 15
   3. Design and Implementation Constraints 16
      1. Interface Design Considerations 16
      2. Mapping Concerns 16
      3. Member Countries 17
      4. NGO Participation 17
      5. Criteria for Matching 17
      6. Verifying User Registration 18
      7. Project Status 18
      8. Donation 19
      9. Reports 20
      10. Resources 20
      11. Functionalities 21
   4. Assumptions and Dependencies 21
      1. Assumptions 22
      2. Dependencies 22
3. SYSTEM FEATURES 24
   1. System Decomposition 24
   2. System Functionalities 26
      1. Account Management 26
      2. Profiling 30
      3. Transaction 34
      4. Reports 39
      5. Additional Functionalities 42
      6. Help 46
4. EXTERNAL INTERFACE REQUIREMENTS 49
   1. User Interfaces 49
      1. Home Page for Public 50
      2. Aid Map 51
      3. Organization Profile for Public 52
      4. Project Profile for Public 53
      5. Sign in 54
      6. Create Account 55
      7. Owner’s View to Organization Profile 56
      8. Edit Profile 57
      9. Account Settings 58
      10. Registered Visitor’s View to Organization Profile 59
      11. Home Page for Registered Users 60
      12. Project List 61
      13. Create/Edit Project 62
      14. Project Profile for Inviting Collaborator 63
      15. Invitation for Collaboration Form 64
      16. List of Organization in Invitation for Collaboration 65
      17. Project Profile for Applying for Collaboration 66
      18. Application for Collaboration Form 67
      19. Notifications 68
      20. Inbox 69
      21. Create Message 70
      22. Frequently Asked Questions 71
      23. Question Form 72
      24. About The Developers 73
      25. Project Frequency Report 74
      26. Project Status Report 75
      27. Evaluation Form 76
      28. Performance Report 77
      29. Create/Edit of Project Summary 78
      30. Summary Report 79
      31. Evaluation Details 80
      32. Project Summary Details 81
   2. Hardware Interfaces 82
      1. Desktop Computers/Laptop 82
   3. Software Interfaces 83
   4. Communication Interface 85
5. OTHER NONFUNCTIONAL REQUIREMENTS 86
   1. Performance Requirements 86
   2. Software Quality Attributes and Metrics Requirements 89
      1. Adaptability 89
      2. Consistency 90
      3. Operability 91
      4. Learnability 92
      5. Assurance 93
      6. Authorization 94
      7. Completeness of Information 95
      8. Function Point Analysis 96
   3. Safety and Security Requirements 97
   4. Testing Requirements 97
      1. Unit Testing 97
      2. Integration Testing 99
         1. Understandability 99
         2. Response Time 100

5.4.3 Validation Testing 100

1. SUMMARY AND RECOMMENDATION 104
   1. Summary 104
   2. Recommendation 105
      1. Provide audit trails 106
      2. Allocation of resources 106
      3. Add representative of the organization 106

PROJECT MANAGEMENT 107

1. Hardware Recommendations 107
2. Software Recommendations 108
3. User Classes and Characteristics 109
4. Product Feasibility Assessment 109
5. Time Management 113
6. Communication, Coordination and Team Composition 114

GLOSSARY 117

APPENDICES

1. Mutual Agreement Form for Co-Authorship 1
2. Capstone Project Proposal 1
3. Gantt Chart 1
4. PERT Table 1
5. PERT Diagram 1
6. Project Cost 1
7. Minutes of Capstone Project Proposal Defense 1
8. Minutes of Capstone Project Final Defense 1
9. Software Quality Attributes Calculation Table 1
10. Function Point Metrics 1
11. Validation Testing Results 1
12. Poster Layout 1
13. Product Logo 1
14. Group Logo 1
15. GOT Result 1

REFERENCES 133