

TABLE OF CONTENT

Table of Contents

| | |
|--|----|
| ACKNOWLEDGMENT..... | iv |
| ABSTRACT..... | vi |
| CHAPTER 1. INTRODUCTION | 1 |
| 1.1 Background Study | 1 |
| 1.2 Existing System..... | 2 |
| 1.3 Problem Identification | 2 |
| 1.4 Research Purposes | 2 |
| 1.5 Limitation of the Problem | 3 |
| 1.6 Research Benefit | 3 |
| 1.7 Research Methodology..... | 3 |
| 1.7.1 Research Type | 3 |
| 1.7.2 Research Location | 3 |
| 1.7.3 Software Design Methodology | 4 |
| 1.8 Writing Structure | 5 |
| CHAPTER 2. LITERATURE REVIEW | 6 |
| 2.1 Technology Overview..... | 6 |
| 2.1.1 Hypertext Preprocessor (PHP) | 6 |
| 2.1.2 Cascading Style Sheet (CSS) | 7 |
| 2.1.3 XAMPP..... | 8 |
| 2.1.4 JavaScript | 9 |
| 2.1.5 Database | 10 |
| 2.1.6 Web Server..... | 12 |
| 2.1.7 Bootstrap..... | 14 |
| 2.1.8 MySQL | 14 |
| 2.2 Background Overview | 19 |
| 2.2.1 Futsal..... | 19 |
| 2.2.2 Pandemic Covid-19 | 20 |
| 2.2.3 Sports For Healthy Life..... | 21 |
| CHAPTER 3. ANALYSIS AND DESIGN..... | 22 |
| 3.1 Research Results | 22 |
| 3.2 Application Overview..... | 22 |

| | |
|--|----|
| 3.3 Comparison of Strengths and weaknesses of Existing System and New System | 23 |
| 3.4 Application Development Method | 24 |
| 3.5 Application Planning Phase..... | 25 |
| 3.5.1 Preparations..... | 25 |
| 3.5.2 Application System Function..... | 25 |
| 3.5.3 System Requirements | 26 |
| 3.5.4 System Non-Functional Requirements | 26 |
| 3.5.5 Identification of Application Features | 26 |
| 3.5.6 Data Needs Analysis..... | 27 |
| 3.5.7 Business Process Overview | 27 |
| 3.6 Application Design Phase..... | 29 |
| 3.6.1 System Design | 29 |
| 3.6.2 Use Case Diagram | 29 |
| 3.6.3 Activity Diagram..... | 32 |
| 3.6.4 Prototype Design of The Application | 42 |
| 3.6.5 Database Design..... | 47 |
| CHAPTER 4. IMPLEMENTATION | 51 |
| 4.1 Development Equipment..... | 51 |
| 4.1.1 Hardware | 51 |
| 4.1.2 Software..... | 52 |
| 4.2 Application Testing Method..... | 52 |
| 4.3 Database Implementation | 53 |
| 4.4 Code Implementation | 54 |
| 4.4.1 Registration System | 54 |
| 4.4.2 Login System | 55 |
| 4.4.3 Send Email..... | 57 |
| 4.4.4 Add Post | 58 |
| 4.4.5 Add Topics..... | 59 |
| 4.4.6 Add Fields..... | 59 |
| 4.4.7 Booking | 60 |
| 4.4.8 Payment | 62 |
| 4.4.9 Log Out..... | 63 |
| 4.5 User Interface | 63 |

| | |
|---------------------------------------|----|
| 4.5.1 Home Page | 63 |
| 4.5.2 Blog Page..... | 64 |
| 4.5.3 Booking Form Page | 64 |
| 4.5.4 Payment Page | 65 |
| 4.5.5 Article Page | 65 |
| 4.5.6 Add Post Page | 66 |
| 4.5.7 Add Users Page | 66 |
| 4.5.8 Add Topics Page | 67 |
| 4.5.9 Add Fields Page | 67 |
| 4.5.10 Manage Booking Page..... | 67 |
| 4.5.11 Manage Confirmation Page | 68 |
| 4.5.12 Login Page | 68 |
| 4.5.13 Register Page..... | 69 |
| 4.6 Blackbox Testing | 69 |
| CHAPTER 5. CONCLUSION..... | 71 |
| 5.1 Conclusion..... | 71 |
| 5.2 Future Work..... | 72 |
| REFERENCES..... | 73 |