



Faculty of Computer Science and Information Technology

***MEMBERSHIP REGISTRATION AND MANAGEMENT  
SYSTEM FOR SARA KUP INDU DAYAK SARAWAK (SIDS)***

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Bachelor of Computer Science with Honors (Network Computing)

2019

**MEMBERSHIP REGISTRATION AND MANAGEMENT SYSTEM FOR SARA KUP  
INDU DAYAK SARAWAK (SIDS)**

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This project is submitted in partial fulfillment of the  
requirements for the degree of Bachelor of Computer Science  
with Honors  
(Network Computing)

Faculty of Computer Science and Information Technology  
UNIVERSITI MALAYSIA SARAWAK

2018 – 2019

UNIVERSITI MALAYSIA SARAWAK

THESIS STATUS ENDORSEMENT FORM

TITLE MEMBERSHIP REGISTRATION AND MANAGEMENT SYSTEM FOR  
SARAKUP INDU DAYAK SARAWAK (SIDS)

ACADEMIC SESSION: 2018/2019

MINDY ANAK TUMAS

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## ACKNOWLEDGEMENT

First and foremost, I would like to take this opportunity to appreciate all people that has involved throughout the journey in completing this Final Year Project with the title *Membership Registration and Management System for Sarakup Indu Dayak Sarawak (SIDS)*. This final year project report is one of the compulsory courses that the final year student must take before graduate from their university and for their future career. Thus, I would like to express my sincere gratitude to Dr Sarah Flora Samson Juan, lecturer of FSCIT also my supervisor for all the patience, and guidance throughout this final year project. It would be impossible to complete this project without her advice and systematic supervision.

Besides my supervisor, I would like to extend my deepest appreciation to my examiner, Miss Jennifer Fiona Wilfred Busu for her insightful comments and encouragement regarding to this project. I also would like to acknowledge the members of Sarakup Indu Dayak Sarawak (SIDS) especially to Madam Suzanna Koh, Madam Shirley, and Madam Margret Bedus for participate and time in providing feedback in this proposed system and user requirement.

My sincere appreciation also goes to my friends especially Diane Rachel Anak Jugah for her support and frequent helps mostly in technical aspects of this project. Finally, my deep and sincere gratitude to my family for their continuous love, help and motivation. I am forever indebted to my parents for giving me the opportunities and experiences that I have today. This journey would be impossible without them.

## ABSTRACT

*Registration is one of the crucial parts in managing an organization. This project is to focus on Sarakup Indu Dayak Sarawak (SIDS) organization on their membership registration and management. Since this organization has more than two thousand members, it is important to have an efficient and systematic managing system. The current method that they are currently used has cause difficulties such as time consuming and redundancy of data. The proposed solution of this problems is to develop membership registration and management system for SIDS. It is a web-based managing system that enable user to handle the member registration and managing membership records in much systematic way. Waterfall Model methodology is used as a guideline to develop this proposed solution. Apart from that, the scope of this proposed system will only include one branch which is the Kuching branch and another limitation of the proposed system is it do not include online payments for their membership fee and due to that this system also will not include auto renewal membership.*

## ABSTRAK

Pendaftaran adalah salah satu bahagian penting dalam menguruskan sesebuah organisasi. Kertas kerja ini adalah untuk memberi tumpuan kepada organisasi Sarakup Indu Dayak Sarawak (SIDS) mengenai pengurusan keahlian mereka. Oleh kerana organisasi ini mempunyai lebih daripada dua ribu ahli, ianya adalah penting untuk mempunyai sistem pengurusan yang terurus dan sistematik. Kaedah semasa yang mereka gunakan iaitu mencatat rekod dalam bentuk buku telah menyebabkan kesukaran kepada mereka seperti memakan masa dan redundansi data. Cara penyelesaian yang dicadangkan untuk mengatasi masalah yang timbul adalah untuk membangunkan sistem pendaftaran dan pengurusan keahlian untuk SIDS. Ia adalah sistem pengurusan berasaskan web yang membolehkan sistem pengguna mengendalikan pendaftaran ahli dengan menguruskan rekod keahlian dalam cara yang sistematik. Metodologi *Model Waterfall* digunakan sebagai panduan untuk membangunkan penyelesaian yang dicadangkan ini. Selain itu, skop sistem yang dicadangkan ini hanya akan merangkumi satu cawangan sahaja iaitu cawangan dari bahagian Kuching dan batasan sistem ini juga adalah sistem yang dicadangkan tidak termasuk proses pembayaran dalam talian dan sekali gus tidak akan mencadangkan proses keahlian pembaharuan auto.

## TABLE OF CONTENTS

<b>ACKNOWLEDGEMENT</b> .....	iv
<b>ABSTRACT</b> .....	v
<b>ABSTRAK</b> .....	vi
<b>CHAPTER 1: INTRODUCTION</b> .....	1
<b>1.1 Introduction</b> .....	1
<b>1.2 Problem Statement</b> .....	1
<b>1.3 Objectives</b> .....	2
<b>1.4 Methodologies</b> .....	2
<b>1.4.1 Requirements</b> .....	3
<b>1.4.2 System Design</b> .....	4
<b>1.4.4 Testing</b> .....	4
<b>1.4.5 Deployment</b> .....	4
<b>1.4.6 Maintenance</b> .....	5
<b>1.5 Project Scope</b> .....	5
<b>1.6 Significance of Project</b> .....	6
<b>1.7 Project Schedule</b> .....	6
<b>1.8 Expected Outcome</b> .....	8
<b>1.9 Project Outline</b> .....	8
<b>1.9.1 Chapter 1: Introduction</b> .....	8
<b>1.9.2 Chapter 2: Literature Review</b> .....	9
<b>1.9.3 Chapter 3: Requirements analysis and design</b> .....	9
<b>1.9.4 Chapter 4: Implementation</b> .....	9
<b>1.9.5 Chapter 5: Testing</b> .....	9
<b>1.9.6 Chapter 6: Conclusions and Future Work</b> .....	10
<b>1.10 Summary</b> .....	10
<b>CHAPTER2: LITERATURE REVIEW</b> .....	11
<b>2.1 Introduction</b> .....	11
<b>2.2 Sarakup Indu Dayak Sarawak (SIDS) Background Study</b> .....	11
<b>2.2.1 Existing Manual Approach</b> .....	12

<b>2.3 Review on Similar Existing System .....</b>	<b>13</b>
<b>2.3.1 Membership Web Based System .....</b>	<b>13</b>
2.3.1.1 Wild Apricot .....	13
2.3.1.2 Group Spaces.....	15
2.3.1.3 Club Master .....	15
<b>2.4 Comparison of features between three existing systems.....</b>	<b>16</b>
<b>2.5 Review of Tools and Technologies.....</b>	<b>17</b>
<b>2.5.1 Front-end Development .....</b>	<b>18</b>
2.5.1.1 HyperText Markup Language (HTML).....	18
2.5.1.2 Cascading Style Sheets (CSS).....	18
2.5.1.3 JavaScript.....	19
2.5.1.4 Bootstrap.....	20
<b>2.5.2 Back-end Development.....</b>	<b>20</b>
2.5.2.1 Laravel PHP Framework .....	21
<b>2.5.3 Database .....</b>	<b>21</b>
2.5.3.1 MySQL.....	21
<b>2.6 Proposed System .....</b>	<b>22</b>
2.6.1 Features .....	22
<b>2.7 Summary .....</b>	<b>24</b>
<b>CHAPTER 3: REQUIREMENTS, ANALYSIS &amp; DESIGN .....</b>	<b>25</b>
<b>3.1 Introduction .....</b>	<b>25</b>
<b>3.2 Summary of Methodology .....</b>	<b>25</b>
<b>3.3 Requirement Elicitation and Analysis.....</b>	<b>27</b>
3.3.1 Interview .....	27
3.3.2 Requirement Elicitation .....	28
3.3.2.1 Summary of Respondent Feedback .....	32
<b>3.4 Software Requirements.....</b>	<b>33</b>
<b>3.5 Hardware Requirements.....</b>	<b>34</b>
<b>3.6 Functional Requirement.....</b>	<b>34</b>
<b>3.7 Non-Functional Requirement.....</b>	<b>35</b>
<b>3.8 Logical Design .....</b>	<b>36</b>

3.8.1 Data Flow Diagram (DFD) .....	36
3.8.2 Context Diagram .....	36
3.8.2.1 Level 0 Diagram .....	37
3.8.2.2 Level 1 Diagram process 1.0.....	39
3.8.2.3 Level 1 Diagram process 2.0.....	39
3.8.2.4 Level 1 Diagram process 3.0.....	40
3.8.2.5 Level 1 Diagram process 4.0.....	41
3.8.2.6 Level 1 Diagram process 5.0.....	42
3.8.2.7 Level 1 Diagram process 6.0.....	43
3.8.2.8 Level 1 Diagram process 7.0.....	43
3.8.2.9 Level 1 Diagram process 8.0.....	44`
3.8.2.10 Level 1 Diagram process 9.0 .....	44
3.8.3 Entity Relationship Diagram.....	45
3.9 Data Dictionary.....	46
3.10 Physical Design.....	47
3.10.1 Login Page.....	48
3.10.2 Dashboard.....	48
3.10.3 Register Member.....	49
3.10.4 Search and Edit Member.....	50
3.10.5 Membership Details.....	52
3.10.6 Print Report.....	52
3.10.7 Admin Dashboard.....	53
3.10.8 Create New User Account .....	54
3.10.9 Search and Update User Details .....	55
3.11 Summary.....	56
<b>CHAPTER 4: IMPLEMENTATION .....</b>	<b>57</b>
4.1 Introduction .....	57
4.2 Installation and Configurations of Development Tools .....	57
4.2.1 Microsoft Visual Studio Code .....	57
4.2.2 XAMPP.....	58
4.2.3 Bootstrap.....	58

<b>4.3 System Interface</b> .....	59
<b>4.3.1 Welcome Page</b> .....	59
<b>4.3.2 Login Page</b> .....	60
<b>4.3.3 Homepage/Dashboard</b> .....	61
<b>4.3.4 Registration Form</b> .....	62
<b>4.3.5 Manage Member Details</b> .....	63
<b>4.3.6 View Member’s Details</b> .....	64
<b>4.3.7 Edit and Update Member’s Details</b> .....	65
<b>4.3.8 Membership Details</b> .....	65
<b>4.3.9 Reports</b> .....	66
<b>4.3.10 My Profile</b> .....	67
<b>4.3.11 Add New User</b> .....	68
<b>4.3.12 Users details</b> .....	68
<b>4.4 Summary</b> .....	69
<b>CHAPTER 5: TESTING</b> .....	70
<b>5.1 Introduction</b> .....	70
<b>5.2 Functional Testing</b> .....	70
<b>5.2.1 Test Cases</b> .....	70
<b>5.2.1.1 Test Cases on User Module</b> .....	71
<b>5.2.1.2 Test Cases on Administrator Module</b> .....	76
<b>5.2.2 Summary of Test Case Result</b> .....	77
<b>5.3 Non-Functional Testing</b> .....	78
<b>5.4 Usability Testing</b> .....	78
<b>5.5 Summary</b> .....	81
<b>CHAPTER 6: CONCLUSION AND FUTURE WORK</b> .....	82
<b>6.1 Introduction</b> .....	82
<b>6.2 Achievement of Objectives</b> .....	82
<b>6.3 Limitations</b> .....	82
<b>6.4 Future Works</b> .....	83
<b>6.5 Conclusion</b> .....	83
<b>REFERENCES</b> .....	84

<b>APPENDIX A: Questionnaire</b> .....	85
<b>APPENDIX B: Respondents Feedback</b> .....	88
<b>APPENDIX C: Member Registration Form</b> .....	89
<b>APPENDIX D: Usability Form</b> .....	90

## LIST OF FIGURES

<i>Figure 1.1 Waterfall Model</i> .....	3
<i>Figure 1.2 Gantt chart of project schedule</i> .....	7
<i>Figure 2.1.0 Current registration flow in SIDS</i> .....	12
<i>Figure 2.1.4: Wild Apricot login site for administration</i> .....	14
<i>Figure 2.1.5: Membership renewal page</i> .....	14
<i>Figure 2.1.6: Group Spaces database field for member</i> .....	15
<i>Figure 2.1.7: Club Master members list page</i> .....	16
<i>Figure 2.1.8: According StackOverflow, the most common used language</i> .....	19
<i>Figure 2.1.9: The most popular database in 2018 according to StackOverflow</i> .....	22
<i>Figure 3.0: Waterfall Model</i> .....	25
<i>Figure 3.1.0: “Respondent Age”</i> .....	28
<i>Figure 3.1.1: “What type of method has been used to keep member's records?”</i> .....	29
<i>Figure 3.1.2: “How long does it take to generate member id”</i> .....	30
<i>Figure 3.1.3: “Does your method include automatic membership renewal process?”</i> .....	31
<i>Figure 3.1.4: “Rate the speed of the current process of managing member's records?”</i> .....	31
<i>Figure 3.1.5: “Are you satisfied with the flow of current method used for registration and managing record?”</i> .....	32
<i>Figure 3.2.0: Context diagram</i> .....	36
<i>Figure 3.2.1: Level 0 Diagram</i> .....	38
<i>Figure 3.2.2: Level 1 for process 1.0</i> .....	39
<i>Figure 3.2.3: Level 1 for process 2.0</i> .....	40
<i>Figure 3.2.4: Level 1 for process 3.0</i> .....	41
<i>Figure 3.2.5: Level 1 for process 4.0</i> .....	42
<i>Figure 3.2.6: Level 1 for process 5.0</i> .....	42

<i>Figure 3.2.7: Level 1 for process 6.0.....</i>	<i>43</i>
<i>Figure 3.2.8:: Level 1 for process 7.0 .....</i>	<i>44</i>
<i>Figure 3.2.9: Level 1 for process 8.0.....</i>	<i>44</i>
<i>Figure 3.2.10: Level 1 for process 9.0 .....</i>	<i>45</i>
<i>Figure 3.2.11: Entity Relationship Diagram.....</i>	<i>46</i>
<i>Figure 3.3.0: Login Page.....</i>	<i>48</i>
<i>Figure 3.3.2: Dashboard .....</i>	<i>49</i>
<i>Figure 3.3.3: Register Member Details.....</i>	<i>50</i>
<i>Figure 3.3.4: Search Member Details.....</i>	<i>51</i>
<i>Figure 3.3.5: Edit Member Details .....</i>	<i>51</i>
<i>Figure 3.3.6: Membership Renewal .....</i>	<i>52</i>
<i>Figure 3.3.7: Print Member Report.....</i>	<i>53</i>
<i>Figure 3.3.8 Admin Dashboard.....</i>	<i>54</i>
<i>Figure 3.3.9 Create New User Account .....</i>	<i>55</i>
<i>Figure 3.3.10 Search and Update User Details .....</i>	<i>56</i>
<i>Figure 4.2.1 XAMPP Control Panel .....</i>	<i>58</i>
<i>Figure 4.2.2 Bootstrap download webpage .....</i>	<i>59</i>
<i>Figure 4.3.0: Welcome Page Interface .....</i>	<i>60</i>
<i>Figure 4.3.1: Login Page.....</i>	<i>61</i>
<i>Figure 4.3.2: Dashboard Interface.....</i>	<i>62</i>
<i>Figure 4.3.3: Registration Form for New Member.....</i>	<i>63</i>
<i>Figure 4.3.4: Manage Member Details.....</i>	<i>64</i>
<i>Figure 4.3.4: View Member Details Page.....</i>	<i>64</i>
<i>Figure 4.3.6: Edit and Update Member Details.....</i>	<i>65</i>
<i>Figure 4.3.7: Membership List Page.....</i>	<i>66</i>
<i>Figure 4.3.8: Generate Reports Page .....</i>	<i>67</i>
<i>Figure 4.3.9: My Profile Page.....</i>	<i>67</i>
<i>Figure 4.3.10: Create New User Page.....</i>	<i>68</i>
<i>Figure 4.3.11: User details Page .....</i>	<i>69</i>
<i>Figure 5.1 Feedback of usability of system interface .....</i>	<i>79</i>
<i>Figure 5.2 Organization of information in system interface.....</i>	<i>79</i>

<i>Figure 5.2 User satisfaction from usability questionnaire result</i> .....	80
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## LIST OF TABLES

Table 2.1 Comparison of features between three existing membership systems.....	17
Table 3.1: Summary of Waterfall Model methodology.....	26
Table 3.2 Hardware Requirements .....	34
Table 3.3 Data Dictionary for Admin .....	46
Table 3.4 Data Dictionary for Member .....	47
Table 3.5 Data Dictionary for User.....	47
Table 5.1 Welcome Page Module .....	71
Table 5.2 Login Module .....	71
Table 5.3 Home page or Dashboard Module .....	72
Table 5.4 Registration Form Module.....	72
Table 5.5 Manage Member Details Module .....	73
Table 5.6 Membership Module.....	74
Table 5.7 My Profile Module.....	75
Table 5.8 Report Module .....	75
Table 5.9 shows the Logout Module.....	76
Table 5.10 Manage Users Details Module.....	76
Table 5.11 Add User Details Module.....	77
Table 6.1 Achievement of objectives .....	82

## **CHAPTER 1: INTRODUCTION**

### **1.1 Introduction**

Sarawak Indu Dayak Sarawak (SIDS) is a Non-Governmental Organization (NGO) for Iban women in Kuching that was established since 1950s. As result of urban-rural migration, most of the Iban women in Kuching came from different parts of Sarawak such as Lundu, Lubok Antu, Betong and Simanggang. SIDS have 26 branches in Sarawak including SIDS Kuching which is the headquarter. Currently, there are almost 2,300 members that have registered under SIDS organization. Based on the current situation, SIDS is still using books to keep and track member records.

Thus, the focus of this project is to develop a membership registration and management system for SIDS to handle their member records effectively. This system enables the user also known as the secretary of SIDS to add new member by from unique id and user can view, edit and delete member details. Moreover, the system will also be able to allow user to manage their membership details such as renew membership and activate pending member status. Furthermore, this system will be able to generate reports of total of member registration and allow user to print out the record. Meanwhile for admin which will be the staffs of SIDS will be able to create that allow to create new user or secretary. The user can login to the system using the given username.

### **1.2 Problem Statement**

SIDS has almost 2,300 members in Sarawak. Over the years the SIDS secretary had a problem in maintaining and managing their member records. Management has become difficult because of several issues such they still using the manual approach to record and

update their membership registration. Currently, SIDS member registration is using form to register as shown in **APPENDIX C**. This form is to be filled by the member and kept by the secretary for their record. The secretary also using books to fill in their members details. This approach cost a lot of time and effort in case they need to search for member instantly. Besides that, the issue with this manual approach is secretary must manually key in member ID by following the previous member's ID sequence. Due to some human error, secretary might mismatch an ID with wrong member in the records. Therefore, this it causes redundancy of data and confusion. Moreover, since it manually managed, there is no automation for membership expired termination. Based on current membership procedure, if member do not pay for membership fee for maximum of 3 years, they must be terminated. However, due to lack of free time or overlooked by secretary, their names remain in the record.

### **1.3 Objectives**

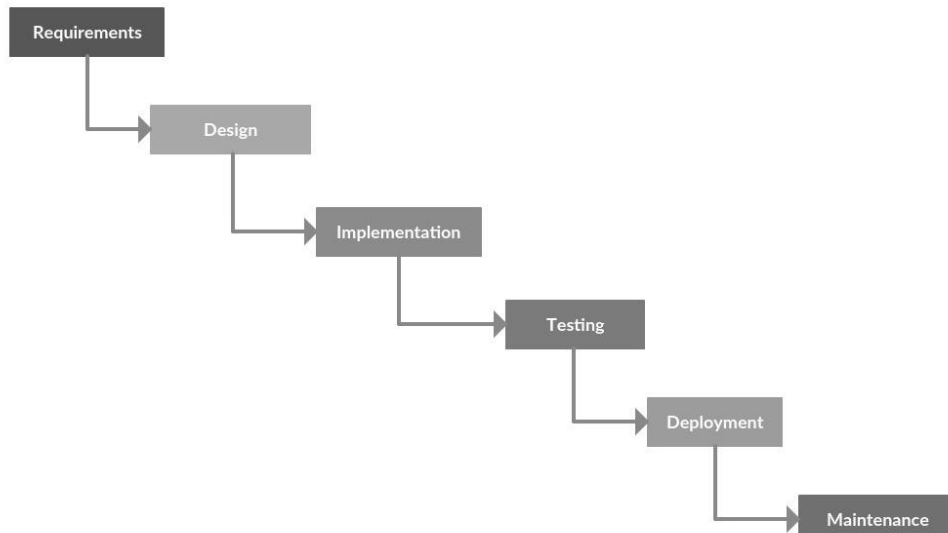
The following are the project objectives:

1. To study and analyse the procedure and specifications of the membership registration system.
2. To develop a membership registration and management system that allow user to track and update their member records.
3. To evaluate the proposed system using usability and developer's testing methods.

### **1.4 Methodologies**

The methodology that is used in this project is waterfall model. It is sequential model each phase must be completed before the next phase can begin and there is no overlapping in

the phases. It comprises of the 6 phase which is requirements, system design, implementation, testing, deployment, and maintenance.



*Figure 1.1 Waterfall Model*

### **1.4.1 Requirements**

This phase is to understand the requirement of the current existing manual approach to register member and managed SIDS's record. The requirement specifications are gathered through interview, questionnaire, and observation on the membership registration and records management procedure. This phase is also gather the requirement software that needed to develop this system for instance, the programming language that is use is JavaScript, using MySQL as database and hardware such as laptop and printer.

### **1.4.2 System Design**

This phase is where software architecture is needed to determine the design of the system. The software tools that are included to design the interface is Laravel PHP as framework, HTML, CSS and Bootstrap. Meanwhile, MySQL will be the database for this system and XAMPP as the localhost and web hosting from the faculty.

### **1.4.3 Implementation**

At this stage, involve coding to develop the proposed project. Visual Studio Code and JavaScript are the main tool and programming language needed to develop the system. The coding is done accordingly based on technique of compiling, debugging, testing and integrating until it meets the system architecture requirement.

### **1.4.4 Testing**

After implementation, it is important to test on the proposed system. Then user will be given feedback form for evaluation. The form will include the features that is proposed in the project and rating scale based on satisfaction from user view. The testing phase will help to improve future system requirements.

### **1.4.5 Deployment**

In deployment, the system will be utilized by the secretary which is the main user of the system. This phase is to allow the user to understand the system and the current environment of the system before using the system as their new membership registration and management system.

#### **1.4.6 Maintenance**

In maintenance phase, a documentation about the feedback and comment will be prepared for future improvement and maintenance.

#### **1.5 Project Scope**

This system is to targets the secretary of SIDS which represent as the user. This project is web-based system that will requires internet connection to access. However, in the present time, this system will use localhost for implementation phase later. It is a system to manage member's record and to register new member using unique ID. From unique ID, user can easily track and managed their member records. Moreover, this system allow user to simply add member, view list of members, edit member details, delete member, search member in the system. Furthermore, the system will also allow user to manage their member membership status according to membership fee payments that has been made. The membership renewal will be fully control by the user. This system can generate report of members. Meanwhile as for admin, they allow to create user or the user account and as well to update and delete member account that allow to access the membership system. Apart from that, admin also allow to manage member details such as view member details.

The limitation of this project is the system is the system do not involve auto payments for membership fee and do not provide any auto renewal membership. In addition, this is system is only limited for Kuching area only which not include the rest of SIDS branches.

## **1.6 Significance of Project**

The significance of this proposed project is to help user or secretary to manage and maintain membership records throughout years. This project act as centralized data management that be able to collect member details, view total number of members in SIDS, analyse member membership status such as active or pending, view database and other more features.

## **1.7 Project Schedule**

This project schedule is using Gantt chart to manage the time control to ensure the development of the proposed project can be completed within timeframe. The proposed of project start from 12 September 2018 until 27 April 2019 The Gantt Chart for this proposed project is as shown in figure below:

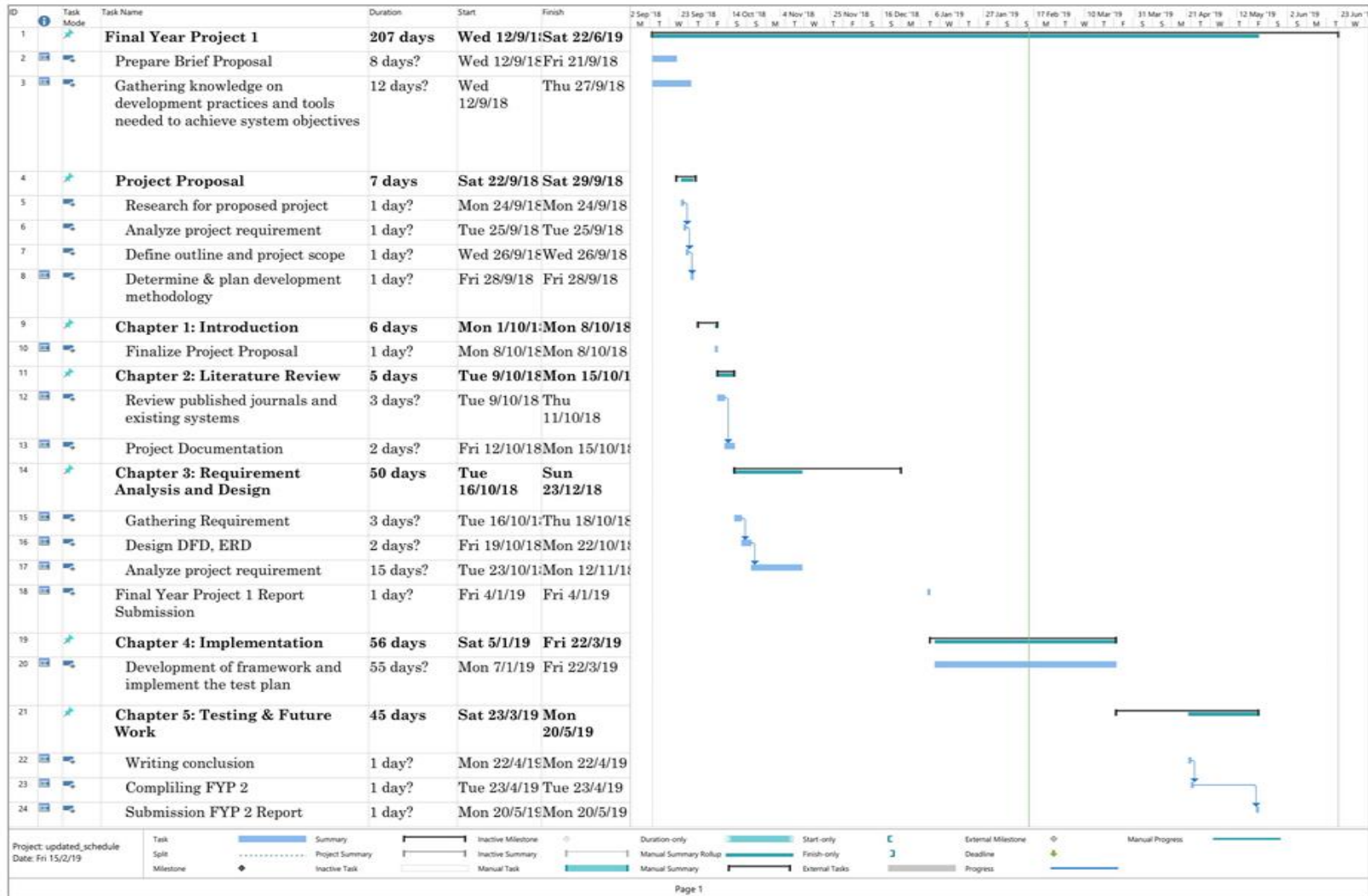


Figure 1.2 Gantt chart of project schedule

## **1.8 Expected Outcome**

The expected outcome of the proposed project is to design and develop a simple user-friendly web registration and management system for secretary of SIDS which represent as the user. This system be able to save many of information database and reduce the use of paper and time as well. This system can help user easily track and view information of their member from time to time.

## **1.9 Project Outline**

### **1.9.1 Chapter 1: Introduction**

Chapter 1 described on the background of the proposed system that allow the user to overview the details of the proposed registration and management system. In this section, it consists of the problem statement, objectives of the project, methodology, and project scope, significance of project, project schedule, expected outcome, and summary. In the problem statement it described the current issues of SIDS registration and management system. The objective of the project is to explain the goals of the proposed system to solve the current issue. Moreover, methodology depicts the Waterfall model used in developing the proposed system. Project scope is to define the pros and cons of the project while the significance of the project explains the benefits of the system for the SIDS. Furthermore, project schedule is described the timeframe of all listed tasks regarding complete the proposed project by using Gantt chart. Finally, expected outcome is describes the result of the proposed project.

### **1.9.2 Chapter 2: Literature Review**

Chapter 2 discussed about the review done on existing systems and techniques which related to the proposed projects. Besides providing an overview of the system to be developed, this chapter is to enlighten the reader on the limitations of the existing systems and how it can be improved and developed further in details. Research about the software and technology tools that used for this project also had been done.

### **1.9.3 Chapter 3: Requirements analysis and design**

Chapter 3 describes the methodology that will be used throughout the project development to fulfil the project requirements. The Waterfall methodology will be used as a model to develop the proposed system. Each phase that is involved when developing this system will be explained briefly in this chapter. This chapter will also include how the requirements are obtained from the stakeholders of the system.

### **1.9.4 Chapter 4: Implementation**

Chapter 4 portrays about the implementation and testing of the proposed system with detailed descriptions. The implementation of the proposed system is using Laravel PHP as framework, HTML, CSS and Bootstrap.

### **1.9.5 Chapter 5: Testing**

Chapter 5 performs the functional testing and non-functional testing that were implemented in the proposed system. The functionalities and features of the proposed system are evaluated under testing phase for further improvement and maintenance.

### **1.9.6 Chapter 6: Conclusions and Future Work**

Chapter 6 concludes the whole project developed and outlines the future work. The lessons learnt throughout the development of the project are presented with relevant examples. The future works mark the improvisation that can be made to the developed project in the future.

### **1.10 Summary**

In conclusion, Chapter 1 discussed the introduction of membership registration and management system. This system is to aim the secretary to be able to keep and update their member records through this system. This chapter is including problem statement, objectives of the project, the methodology and expected outcome of this proposed project. The problem statement elaborates the complication of current method that are faced by the SIDS organization. Moreover, objectives are to determine the project goal that is expected to be achieved by the end of development. In addition, project scope is explaining the limitations of developing the proposed project. In significance of the project is to describe the benefits in implementing this proposed project based in long term and short-term perspectives.