

**UNIVERSITI UTARA MALAYSIA**

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**Title : SISTEM PEMANTAUAN PROJEK ZON5 FOR KEDA ZON 5 BALING**

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1. **INTRODUCTION**

Kedah Regional Development Authority (KEDA) was established on 28 May 1981 under Act 249, KEDA Act 1981 with the intention to assist in speeding up the growth of the socio-economy and infrastructure under KEDA operational territory. KEDA operational territory covered an area of 8,279 sq km, which is 89% of the whole state of Kedah. As a Federal Government agency under Ministry of Rural Development (KPLB), KEDA is responsible in many aspects of development including poverty eradication programmed, traditional village development and housing for the poor people programmed (PPRT), development of small and medium industries, as well as entrepreneurship, programmed, skills training, development of human capital, infrastructures and social amenities.

In the 10th Malaysian Budget Plan, the main focus of KEDA development programmed includes regional development and towards self-dependency (*biaya diri*). The regional development programmed covers physical development, economy and human capital, especially at the less developed areas in the rural and remote regions. On the other hand, towards achieving self-dependency (*biaya diri*), KEDA has put up the initiative to establish a subsidiary under it. Finally, KEDA also provides a progress report on project implementation and development activities to the management.

There are several systems that they used currently to key-in data such as *'Sistem e-Profil Desa*' to track their community data. In that case, we discuss to developed a new system that can help this organization work efficiently and easier to track and access the data.

* 1. **Problem Statement**

The main problem begins when the staff KEDA faces a problem in collecting data from the project among staff KEDA. KEDA Zone 5 are still using the conventional manual system to record and store data and information for projects. This however has proven to be an inefficient process in collecting and storing information. Furthermore, this process does not help in creating a clear and convincing report to the KEDA Zone 5 in managing the data. Also, without having a proper online system, it is hard for KEDA staff to manage data within their office. As we know, KEDA Zone 5 involved in many projects, but the manual system they used is time-consuming and tedious. With the continuous update regarding the project, it will make the workforce less efficient. the following problem need to be solve :

1. Still using a manual system to record all the project and program they are involved.
2. Do not have an online system to record the latest data.
3. Do not have any systematic management system to record all of the project and program they are involved.

**1.2 Objective**

The main objective of this project is to design and develop a system for KEDA Zone 5. In order to meet the main objective, the following objectives need to be achieved:

1. To identify requirements for staff in managing data.
2. To design the interface for *Sistem Pemantauan Projek Zon5*.
3. To develop *Sistem Pemantauan Projek Zon5* within KEDA Zone 5.
4. To test the usability and functionally of *Sistem Pemantauan Projek Zon5*.
   1. **Scope**

There are two scopes for these projects that are restricted to be followed in developing this system.

1. **Target User**

The target user for the *Sistem Pemantauan Projek Zon5* are the staff who are involved as a supervisor in villages.

1. **Functionality**

The main function of *Sistem Pemantauan Projek Zon5* (SPPZ5) is to provide a platform for staff to manage their data and information. Staff can use SPPZ5 to create a new program and update all data in one place and able to view the latest community details. This system also has the essential function such add, update and delete the record.

**1.4 Project Significance**

Among the significance that can be obtained when using this system:

1. *Sistem Pemantauan Projek Zon5* will help the supervisor from KEDA to record the community details more easily and systematically.
2. Community supervisor can know their latest update for their program.
3. Can merge all the program and project in KEDA Zone 5.

**2.0 PROJECT PLANNING**

The project planning for SPPZ5 will comprise of methodology, tools, cost and time planning for the development of the system. All the component will be explained thoroughly in project planning.

**Diagram

Description automatically generated 2.1 Methodology**

**Figure 1: Rapid Application Development Model (Kiss Flow, 2020).**

The methodology used in developing this system is Rapid Application Development (RAD). RAD is a method of software development which heavily emphasizes rapid prototyping and iterative delivery. With rapid application development, developers can make multiple iterations and updates to a software rapidly without needing to start a development schedule from scratch each time (Kiss Flow, 2020). The RAD is a process which contains four phases: requirement planning, user design, construction and cutover.

**1st Phase: Requirements Planning**

In the preliminary stage, requirement analysis starts with testing other existing website and system such as *'e-profil desa'* in order to get some ideas and current problem on the system. At the same time, a survey will also be conducted to KEDA staff because this system aims to help them to solve their problem and we wanted to extract some idea on the need of functionality for the system. After the requirement analysis, the next phase only can start once agree upon from our company supervisor and also supervisor from UUM.

**2nd Phase: Prototyping Phase**

This is the most critical phase to show the user model to verify whether those requirements are fulfilled in this system. In this phase, the user requirement is fully transformed into a user model and start constructing into prototyping based on the model. After the requirement justification from target user, various RAD tools will be used to transform the prototyping to the real system. The entire *Sistem Pemantauan Projek Zon5*, user interface element will be included in the system based on the tested prototyping. In the process of construction, the target user requirement can be added on *Sistem Pemantauan Projek Zon5* to enhance the functionality and able to do modification and improvement until the target user is satisfied.

**3rd Phase: Construction Phase**

During the construction phase, this phase will complete the construction of the physical application system, build the conversion system and develops user aids and implementation works plan. The system developed will be a web-based system, while for the language we will be using PHP. The development tools that will be use are NetBeans, and for the database, CPanel will be use.

**4th Phase: Cutover Phase**

Once the full-scale testing is complete, the developer will implement for the last time before officially presenting it to the audience. Once everything is completed, this *Sistem Pemantauan Projek Zon5* will be officially launch as testimonial to the public. Lastly, all the related document and final report are then completed and submitted to our company supervisor and supervisor from UUM.

**2.2 Feasibility Study**

*Sistem Pemantauan Projek Zon5* is complete web based system. The main tools and hardware that are associated with SPPZ5 are, PHP, HTML, CSS, MySQL, NetBeans and XAMPP. Each of the tools and hardware are freely available and the technical skills required are manageable. Initially the website will be hosted in a free web hosting space, but for later implementations it will be hosted in a paid web hosting space with sufficient bandwidth. From these it is clear that project SPPZ5 is technically feasible.

**2.2.1 Tools and hardware**

|  |  |
| --- | --- |
| **Items** | **Description** |
| **Internet Network** | **Network name:** KEDABALING  **Network type:** LAN(Local Area Network)  **Security type:** WPA2-Personal  **Encryption type:** Qualcomm Atheros AR956x Wireless Network  Adaptor |
| **Laptop** | **Type:** Laptop  **Brand:** ASUS  **Window edition:** Window 8  **Ram:** 8.00 GB |
| **NetBeans 8.2** | **Product Version:** NetBeans IDE 8.2 (Build 201609140952)  **Updates:** Netbeans IDE version NetBeans 8.2 Patch 2  **Java:** 1.8.0\_271; Java HotSpot(TM) 64-Bit Server VM 25.271-b09  **Runtime:** Java(TM) SE Runtime Environment 1.8.0\_271-b09 |
| **XAMPP phpMyAdmin** | **Version information:** 5.0.2  **Apache**/2.4.43 (Win64) OpenSSL/1/1/1g PHP/7.48  **Server:** 127.0.0.1 via TCP/IP  **Server type:** MariaDB  **Server version:** 10.4.13-MariaDB – mariadb.org binary distribution  **User:** root@localhost  **Server charset:** UTF-8 Unicode (utf8mb4) |

**Table 1: Tools, hardware and software**

**2.2.2 Cost Estimation**

KEDA fully funds cost estimation for this development as this system is requested by KEDA Zone 5.

**2.2.3 Gantt Chart**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TASK** | **OCT** | **NOV** | **DEC** | **JAN** | **FEB** | **MAC** | **APR** |
| **Preparing Proposal** |  |  |  |  |  |  |  |
| **Requirement Planning** |  |  |  |  |  |  |  |
| **Prototype Phase** |  |  |  |  |  |  |  |
| **Construction Phase** |  |  |  |  |  |  |  |
| **Cutover Phase** |  |  |  |  |  |  |  |

**Table 2: Gantt Chart**

**3.0 SUMMARY**

This purpose of this proposal is to get an insight on the project, which is developing *Sistem Pemantauan Projek Zon5.* This system is requested by KEDA Zone 5 in which will be used to assist them in recording community details, project and program. The system will be developed following the RAD Methodology. The estimation of completion for this project is about six months.

**REFERENCES**

Kiss Flow. (2020). Rapid Application Development (RAD): Changing How Developers Work. Retrieve from <https://kissflow.com/rad/rapid-application-development>

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