

Analysis of Building Service Permit Information System Using ITPOSMO Framework Approach (Case Study of City Planning and Gardening City of Ternate)

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Abstract— This research presents Analysis of Information System of Building Permit Service as a whole by using ITPOSMO Framework. The methodology used in this study is based on the PMI process group. For analysis use the ITPOSMO framework, Work Breakdown Structure (WBS) to design scheduling and cost estimation. This is done using field studies and literature studies. Field study was conducted by conducting interviews and documentation and interviews with the staff of the City Planning and Gardening Agency of Ternate City, while the literature study collects data from existing books and literature. The results of this study is how the System can run and the existing budget so that it can be implemented with good application of Service Information System Permits Establish Bagunan so as to improve the process of service to the people of Ternate.

Kata kunci :

IMB, ITPOSMO, WBS

1. Introduction

The rapid growth of information technology in terms of supporting operational instansi can not be avoided. Utilization of information technology in supporting decision making process has made information system as one of urgent resource.

IMB (Building Permit) is a permit granted by the local government to a person or entity to establish a building intended to design the execution of buildings and development in accordance with the city layout applicable in accordance with the Basic Building Coefficient (KDB).

Office of City Planning and Gardening City of Ternate as stated in article 3 of Ternate Mayor Decree is to carry out the authority of regional autonomy in the framework of implementation of decentralization task in the field of City Planning and Gardening of Ternate.

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In carrying out the main tasks, the City Planning and Gardening Office of Ternate has the following functions:

1. Formulation of technical policy in the field of urban planning and landscaping.
2. Provision of agreements and public services in the field of urban planning and landscaping.
3. Coordination of control and supervision evaluation of the implementation of tasks in the field of urban planning and landscaping.
4. Determination, organization and supervision of spatial planning.
5. Provision of space utilization permit.
6. Implementation of spatial promotion..

2. Literature Review

In the previous research under the title Implementation of Building Permit Issuance in the Prespectives of Good Governance Principles In Sukamara District by Ade Irma Suryani where the study discusses how the implementation of service function of Sukamara district government in giving construction permit and how Sukamara district government in facing constraints To the stansart of good service in the review of the general governmental azaz.

Project Management Planning Regional Financial Accounting Information System With ITPOSMO Framework Approach by Tati Mardiana which in this study discusses the problem of accounting report of local government at Regency of Banjar East Kalimantan with approach of ITPOSMO

From the results of this study the authors want to develop research on the Department of City Planning and Gardening Ternate on the service or the management of building permits have been using the application, the author will discuss Information System Building Permit Using Framework ITPOSMO.

Building Construction Permit is a permit which is covered by the local government to a person or business entity to establish a building intended to design the execution of the building and development in accordance with the city spatial plan applicable based on the Decision of the Mayor of Ternate Number 25 Year 2004.

The purpose of system analysis is to give a general description to the user about the new system, at the design stage of the system in general information systems designed to be able to communicate with the user.

An information system is an organization of equipment that gathers, inputs, processes, controls and reports information for the achievement of corporate objectives.

The concept of gap or better known as ITPOSMO was first developed by Richard Heeks. The ITPOSMO framework comprises 8 highly influential aspects of causing failures in e-Government projects in developing countries: Information, Technology, Processes, Objectives and Value, Staff And Staffing and Skills, Management Systems and Structure and Other Resources (Other)..

3. Research Methods

The methodology used in this study based on PMI process group is initiation and project planning. For data analysis used ITPOSMO framework, Work Breakdown Structure and Microsoft Project software to design project scheduling and cost estimation. The first step of this research is to collect data using field study and literature study. Literature study is done by collecting various references from books and the existing literature while the field study is to interview directly the parties associated with Building Permit Information System.

4. Discussion

Project initiation provides an overview of a project to be undertaken usually containing the scope, project objectives, project time, and other general information that is poured into the form of documents.

I. Project Initiation

a. Project Objectives

This project is expected to help facilitate the administration of public service to the people who will build the building.

b. Method or Approach Project

The solution offered from this research is to overcome the problems posed by the building permit system:

1. Slow service process.
2. Applications are made web-based so that people can access through the internet registration process and the existing conditions so it does not require a long time.
3. Reduce paper media usage.

4. Reduce the cost of purchasing commercial software items by using open source code.
5. Minimizing human error.
6. Time efficiency..

c. Key Performance Indicators

The key performance indicators used to measure project success against organizational goals include:

1. Average time required for IMB process.
2. The IMB certificate is issued in accordance with the specifications of the building to be built or designed.
3. The amount of time required to issue an IMB certificate.

d. Ruang Lingkup Pekerjaan (Scope of Work)

To determine the scope of work within a project the ITPOSMO framework is used so that all work is undefined and nothing is missed. Table 1 shows the scope of the Building Permit Information System project.

e. Assumption

The definition of the project with the following assumptions:

1. The project owner has been assigned.
2. Project team members are competent human resources according to project needs.
3. Existing human resources in accordance with the specifications of the project to be undertaken.
4. Maintenance outside of the set time will be charged maintenance fee.
5. For damage from the infrastructure side is the responsibility of the vendor of the device.

2. Project Schedule

The project schedule is structured based on the work structure which contains a list of jobs or tasks to be undertaken in this IMB building project which takes 15 working days and 30 working days for system maintenance and 18 days of change work. The total time required in this project is 105 days. The full project activity along with the duration of time required can be seen in table 1.

3. Human Resource Planning

At this stage, the project manager identifies the qualifications and number of personnel required, documenting the role and responsibilities of a person in the project. The qualifications and number of personnel required in the IMB Information System consists of one Manager, one system analyst, two programmers, one person Technical support, one documentation and four trainers. The roles and responsibilities of individual personnel or groups refer to the project team assignment form.

4. Project Budget Plan

The Sisfo IMB project budget plan (RAB) is calculated based on the resources leveling in order to know the time of project implementation and the amount of labor resource needs, can be seen in table 3 which shows the cost budget to be used in Sisfo IMB project.

5. Procurement Plan

The project manager makes a procurement plan outlining the specification of the required items as well as the time of the goods to be used and the procurement process.

6. Communication Planning

Communications planning outlines the need for regular communication among team members involved in project work, communications planning including:

1. Activity leaders and facilitators conduct meetings to ensure projects are on track and effective so they can achieve their goals.
2. The activity leader appoints the member as a note taker to document the meeting.
3. At the time of the meeting discussing the progress of the project, the activities to be undertaken and the control of the change of the existing system.

7. Planning for Change

In a project, there is the possibility of a request for change, in order to anticipate it, it is necessary to prepare a procedure. The procedures for controlling changes in a project are:

1. Any approved modifications or changes to the schedule and cost of the project shall refer to the subsequent procedure.
2. Submission of changes may come from each team member when necessary, especially for changes that will affect the schedule and workspace.
3. Approval on the request request form (CRF) indicates approval of changes to the schedule.

While the procedure for filing changes, as follows:

1. A change can be made by the project manager through formal or non-formal communication.
2. Filling out CRF as a proposed change. Meetings and reporting, preparations to be undertaken prior to the meeting include:
 1. Distributing the meeting agenda by no later than the day before.
 2. Distributing meeting materials, agenda and information, location and time.
 3. Each member of the project team is responsible for preparing, attending and actively participating in meetings.

8. Risk Planning

The project manager identifies possible risks and plans a strategy for addressing those risks. The method used to identify using the ITPOSMO framework. Table 4 shows possible strategies for anticipating potential risks.

9. Quality Planning

To ensure the quality of products to be produced then the project manager perform quality planning, including:

1. Identify and communicate quality criteria with stakeholders.
2. Develop and communicate quality requirements with stakeholders.
3. Make a list of things to do in order to meet the quality of the project in the form of quality checklist.

5. Conclusions and Suggestions

In the process of Building Permit Information System takes into account the constraints such as the scope of work, project schedule and cost budget. All these limitations used the ITPOSMO framework for all work from scratch and nothing else to pass but this project also includes planning and HR needs, IT infrastructure procurement planning, communications needs planning, change planning and risk planning to control project implementation so the project can Running according to the schedule that has been planned. Building Permit Information System is expected to improve services to the people of Ternate.

The author suggests that desktop-based information systems can be developed in a web-based so as to facilitate the community in the management of building.

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