

CHAPTER I

PREFACE

1.1 Background

As time moving forward, the growth of technology has risen faster than before. Things like internet access, that is now easily received that could help to gather usefull information. Just like the normal internet user that want to visit other cities or contries, they could use the internet to gather information regarding their destination. Whether it's tourist spot, recommended eating place, and even good place to stay.

As a homestay facility, Kost Pelangi Balikpapan is included as one of the exclusive homestay or kost in Balikpapan city. With its strategic location and fair cost made Kost Pelangi Balikpapan as one of the highest recommended place for tourist, travelers, and any visitor of the city to rest. As of the moment of this writing, Kost Pelangi Balikpapan does not have an official website that could be accessed by internet users, therefore not many from outside Balikpapan city could have known about them. This cause the lack of new consumer and the lost of potential profit that could be achieved by Kost Pelangi Balikpapan

And as one of the step that Kost Pelangi Balikpapan taking to be one of the modern homestay is to create an online system so that consumer can make a fast reservation, communicate, and having easy transaction with the staff just like a hotel.

Based on the writings above, the writer have concluded that Kost Pelangi needed a system that could help solve all of their problem and fullfil their needs. The writer will design a system as a thesis final project with the title "Analysist and Design of Information System Web Based Room Reservation At Kost Pelangi Balikpapan".

1.2 Problem Statement

Kost Pelangi Balikpapan right now still does not have the technological reach compared to other named exclusive homestay, like a website that could be accessed by users that is filled with informations regarding room availability, location of homestay and others. The visitor of Balikpapan city usually uses application such as Google Maps, Traveloka, and other public info that exist on the ineternet to find and compare living location they want to occupy. Features like Online Room Booking is becoming a neccessary feature.

1. How can we do an analyst and build a website as a way for user to reserve a room at Kost Pelangi Balikpapan?
2. How can this sytem help Kost Pelangi Balikpapan to promote their business to potential customers?

1.3 Scope of Problem

To avoid the wide range of problem and keeping the writer more focused in this thesis, therefore a scope of problem has been created in the following:

1. Data that is going to be used is all of the data that is related to Kost Pelangi Balikpapan.
2. The Website will be build using the programming language Hyper Text Markup Language (HTML), Personal Home Page (PHP), and Cascading Style Sheet (CSS)
3. MySQL will be the designated database system
4. Image and icon editing will be done through Adobe Photoshop
5. The created system will not be covering security problem in detail, only a little of the subject will be covered, like username, password and access rights.
6. The users of this website are the homestay staffs, the homestay owner and customers.
7. Will not discuss about networking, security, and human error.

1.4 Purpose of Research

The purpose of research that the writer wants to reach is that for Kost Pelangi Balikpapan to be more familiar for the internet users, by giving more information regarding the homestay business. And also helping the reservation process so the customer can have a good experience.

1.5 Benefit of Research

1. For potential customer

Easing the process for searching informations regarding the homestay and room reservation.

2. For the business owner

Widen the business reach by taking advantage of internet technology as a promotional media to the netizens of the internet.

3. For knowledge

This research will added into the knowledge literature and could be used as a future reference for readers in the topic of making a room reservation system based on a website.

4. For writer

- a. To develop more skill in web development and database design for web based projects.
- b. One of the required terms to graduate from Amikom Yogyakarta University.

1.6 Research Method

Research methods that will be used to complete the research are as follows:

1.6.1 Data Gathering Method

1. Interview

This method will be done with interviewing multiple subjects related to the object of research, such as operational standards of the homestay, the common problem that the homestay normally

faced and others. The main subject of this interview is the owner of the Homestay owner

2. Observation

This method will be done by observing the object of research and making notes systematically on problems that is being researched. The observation will be done on location at Kost Pelangi Balikpapan.

3. Literature Review

Literature review is a method to collect data by learning from books and journals that is related to the problem that is faced in the research.

1.6.2 Analysis Methods

To test the newly created system, there are a few criteria that needed to be analyzed. These criteria are based on the PIECES analysis method that evaluate from Performance, Information, Economy, Control, Efficiency, and Service.

1.6.3 Design Method

1. Flowchart

Flowchart is a design that explain the workflow of the operation or system as a whole and explain the order from the procedures inside the system.

2. *Data Flow Diagram (DFD)*

Using data flow diagram design as a formal method to draw how the business operates. Illustrating the activities and how data moves between activities. And using DFD is the most popular method.

3. *Entity Relationship Diagram (ERD)*

Entity relationship diagram is using a diagram or image to show where information is created, saved, and used inside the system from connected entities.

1.6.4 Implementation Method

This method includes the process of creating the system starting from creating the database, the user interface, and connection.

1.6.5 System Trials Method

After all of the process has been finished, it is time for the writer to test the application/system if there is something wrong or not. The writer are using 2 testing methods:

1. *Black Box Testing*

Black Box testing is a testing method that is done by launching or executing the module like function and procedures.

2. *White Box Testing*

White Box testing is a testing method that analyze the existing programming codes to see if there is any mistakes.

1.7 Writing System

The creation of this essay consists of five chapters with the writing system as followed:

1. CHAPTER I : PREFACE

This chapter will include all the problems that is the foundation of this essay and explain all of the background, formulation of the problems, the limitation of the problems, the purpose of the research, the benefit of the research, the research methods, and the writing system of the essay.

2. CHAPTER II : THEORITICAL BASIS

This chapter will include literature review, all supporting theories, and softwares that will be used.

3. CHAPTER III : SYSTEM ANALYSIS AND DESIGN

This chapter will discuss the analysis need of the system and the planning of the design of the system that will be created.

4. CHAPTER IV : IMPLEMENTATION AND DISCUSSION

This chapter will explain the implementation and the usage of the system, starting from data implementation that is needed by the system as a whole then a testing phase to see if the system works properly.

5. CHAPTER V : CLOSING

This chapter will be filled with conclusion and suggestion from the research that has been done with the purpose of helping future development.

