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Design of web-based boarding house information system at bunda kosan

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A B S T R A C T

Technology can be said to be very important in today's life, increasingly advanced technological developments can make it easier for people to carry out daily activities. in a developed area, especially urban areas, of course, there are a lot of immigrants from outside the area to work, school, study, or vacation which of course they need a temporary place to live while carrying out their activities. one of them is to find a boarding house. a boarding house is a home-based business that provides a place or room to rent or live in to tenants who need a place. searching for a boarding house conventionally by asking the community or residents takes a long time to visit the palce and compare it with other options. the purpose of this study is to design and produce systems and information that are precise and time efficient, the method used is obsevation and system development using the waterfall method. the design of a web-based boarding house rental information system can make it easier for users to search and rent without having to come directly to the location so as to save time and costs. can help boarding house owners carry out promotions so that many people know about boarding houses and assist in managing transaction data to make it easier to make payments directly.

I. Introduction

Technology can be said to have become an important part of people's daily lives today. The development of technology that is increasingly advanced and rapidly makes it easier for humans to carry out their life activities. In other words, humans and technology are two things that cannot be separated. The development of technology, of course, cannot be separated from the role of humans who continue to strive to create new tecnologies. In addition, the development of science and technology is also one of the factors that make these new tecnologies born. The human need for technology makes humans continue to innovate to develop it in various fields, one of which is in the world of education. In a developed area, especially urban areas, of course, there are a lot of immigrants from outside the area to work, school, study, or vacation which of course thay need a temporary place to live while carrying out their activities. In general, members in searching for a boarding house use conventional techniques, such as asking friends, the boarding house, or asking directly the owner of the boarding house. Whwn they ask the party, they generally ask about the facilities that will be obtained, the cost of the boarding house per month/ year, and the distance between the boarding house and the place of study. The obstacle that occurs is the time it takes can be very long because you have to visit places and compare with other options. Therefore, a more efficient system is needed to make it easier for prospective members to determine the choice of boarding houses according to their choice in a relativrly shorter time.

II. Literature Review

2.1. Definition of Design

Design is a process to definess something to be done with using a variety of techniques in which involves a description of the architecture as well as details components and also the limitations that will be experienced during the work process is carried out [1].

2.2. Definotion of web

Website is a page or a collection of pages used to display information on text, still or motion pictures, animation, sound, or a combination of all of them, both atatic and dynamic which form a series of interrelated buildings, each of which is connected by web pages [2].

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2.3. Definition of Kost

Kost is a dwelling that provides room to live in, complete with standard furnishings boarding places: a bed and a closet. The payments are made monthly and annually, and the residents of the boarding house (usually called boarding children, even though they may not be children at all) usually do ot pay electricity or other utility costs, except in certain conditions, for exampe bringin electronic equipment that consumens quite a lot of electricity [3].

III. Method

3.1. Data Collection Method

The first statge in a study is to collect data. The mothod that the author uses in data collection is literature studty, observation, interviews.

Literatur Literature

Literature study si a method of collecting data by tracing and studying literature soueced from books, media, experts and the results of research that has been done before or previous research which aims to develop a theoretical basis for conducting this research [4].

Observations

Performed by the outhor by documenting the owners of the boarding house, as well as to obtain the appropriate coordinates.

Interview

Interview is a method of collection data by asking the parties involved in this case, namely the owner of the boarding house and yhe seekers of the boarding hose. This interview was conducted to obtain the necessary information.

3.2. System Development Method

In system engineering, the method that the author uses for the design and Build Information System for Disilaberanti boarding house rental is to use the waterfall method. The waterfall method is a classical method that is systematic, sequential in building software. It is also called the waterfall method bacause the steps that are passed must run sequentially. Development with the waterfall method is carried out in five stages, namely Requirements Analysis (requirements), System Design (design), System Implementation (implementation), System Testing (testing), and System Maintenance (maintenance).

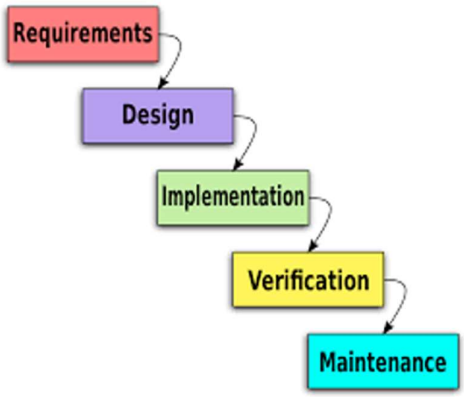

Figure 1. Waterfall Method

IV. Results and Discussion

4.1. Overview of the ongoing System The

Ongoing analysis is the main step that must be carried out before giving the proposed system form. Because basically there must be a foundation to build a system, bias in the form of problems that occur and must be resolved immediately. The following is a running use case.

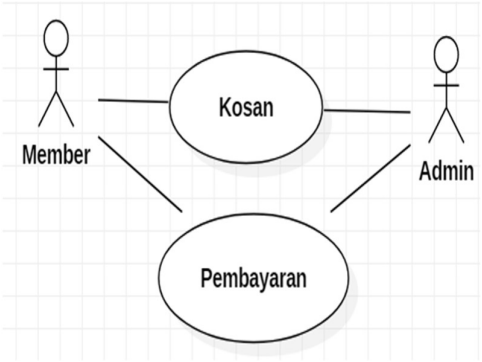

Figure 2. Use Case

Members look for boarding houses manually, namely by going around places that provide boarding houses. After the member gets a boarding house and meets the owner, they will make a payment or transfer charge.

4.2. Proposed System Design

In the analysis of the proposed system, a web-based boarding house rental information system will be built which will provide convenience to boarding house seekers, especially students and also provide convenience for boarding house owners to promote their boarding houses. In this system, a boarding house rental information system application is built on a web-based basis that can be accessed according to their respective access rights. Each student tho will place an order than they will bw directed to register a member first so they can login. The system

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design is designed in such a way according to the needs of the users.

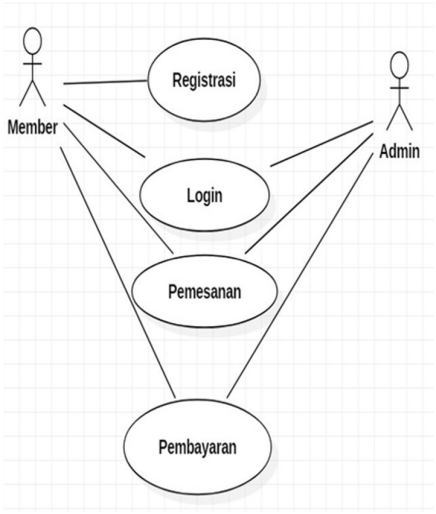

Figure 3. Proposed Use Case

Description: member: before logging in the member is directed to register a member firdt. Then members log in and place an order. Admin: admin will log in as the owner who will manage the cost data.

ERD (Entity Relationship Diagram)

ERD is the earliest form of database design [5]. The database is a collection of data stored systematically so that it can be accessed to obtain in.

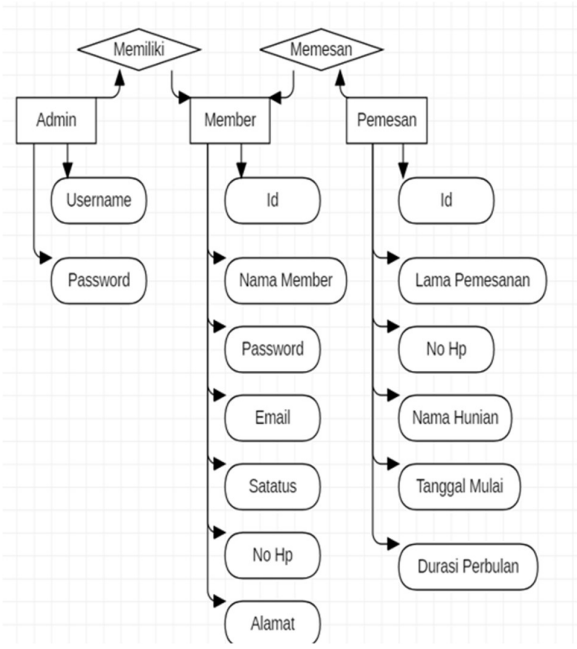

Figure 4. The proposed ERD

Class Diagram

Class diagram is a diagram that shows the classes in the boarding house rental information system[6]. This Class Diagram describes the static structure of the system created at the design stage which is a complete description of the classes handled by the system, where each class has been equired attribites and operations

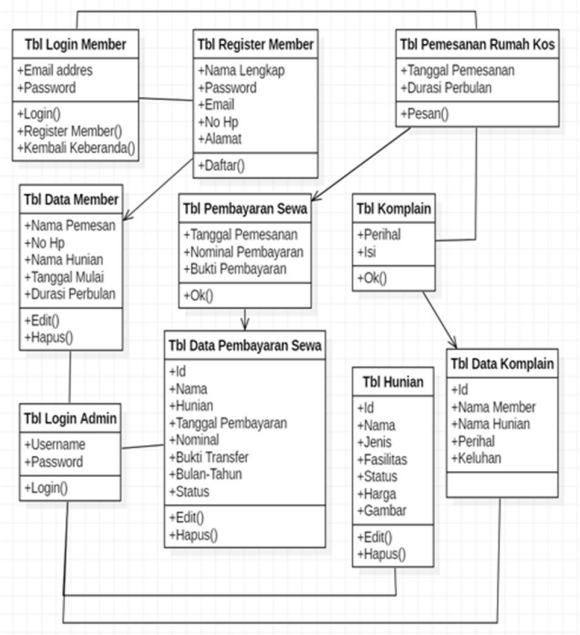

Figure 5. Class Diagram

Design

1. Home Admin

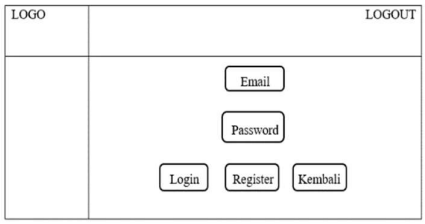

Figure 6. Home Admin

2. Residential Data

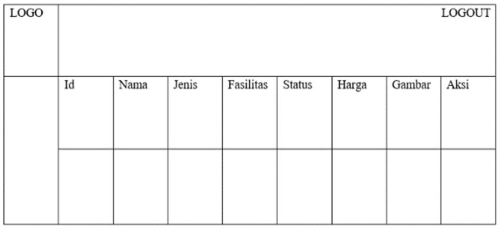

Figure 7. Residential Data

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3. Member Data

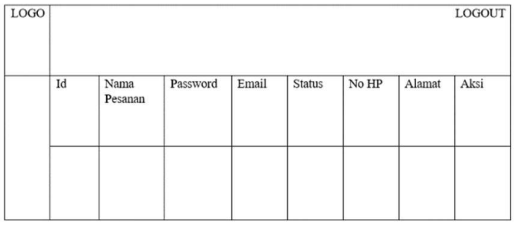

Figure 8. Member Data

4. Order Data

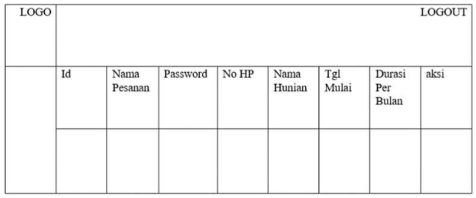

Figure 9. Order Data

5. Rental Data

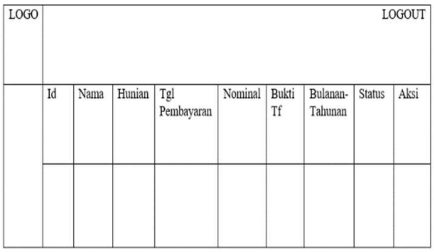

Figure 10. Rental Data

6. Complaint Data

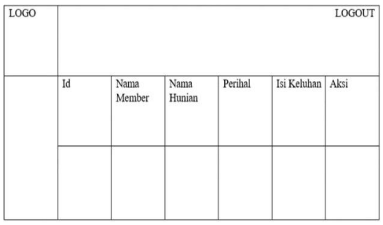

Figure 11. Complaint Data

7. Home Page

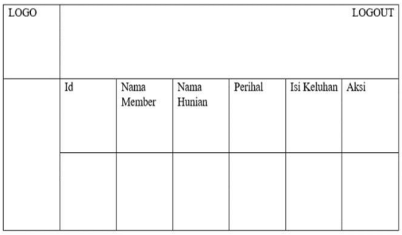

Figure 12. Home Page

8. Order Form

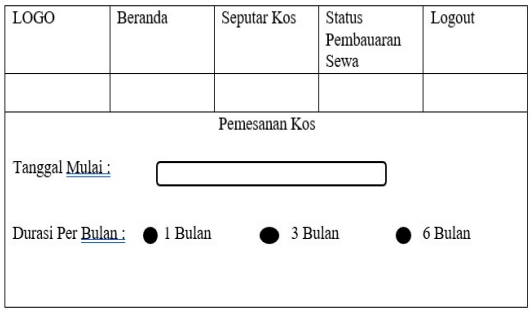

Figure 13. Order Form

9. From Rental Payment

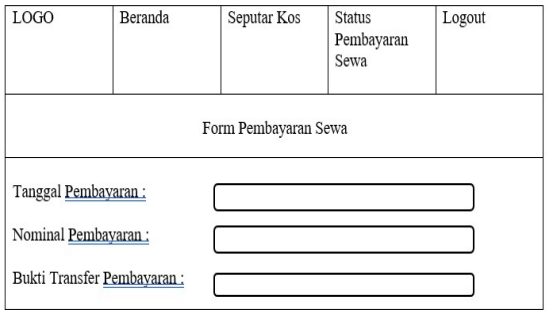

Figure 14. Form Rental Payment

10. Complaint Form

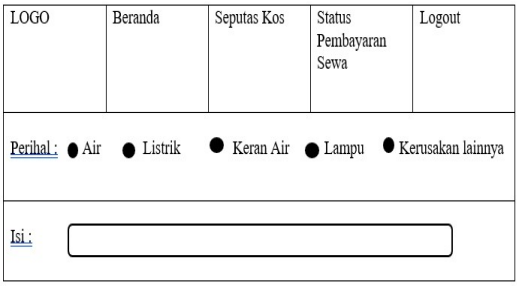

Figure 15. Complaint Form

11. Form Payment Status Lease

Figure 16. Form Payment Status Lease

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V. Conclusion

From the research and implementation that has been done by the author on the Web-Based Boarding House Rental Information System at Kos Bunda, it can be concluded

1. This information system can help boarding house seekers to be more easily effective and time efficient.
2. This system can help boarding house owners to do promotions so that many people know about their boarding houses.
3. This information system can assist in managing transaction data to make it easier. In making payments, you can pay via transfer or directly.
4. This system helps boarding house owners provide information about existing facilities to make it easier for boarding house seekers, and also members can make complaints if there is any inconvenience or problem.

VI. Suggestion

It is hoped that the design of a web-based boarding house rental information system at the mother's boarding house can be developed even better so that it becomes a reference for readers of.

References

[1] Mahyuni, Sharipuddin, and Martono, "Perancangan Sistem Pengolahan Data Pada Sma," Peranc. Sist. Pengolah. Data Pada Sma, vol. 8, no. 3, pp. 180–187, 2020.

[2] J. Sari et al., "Pengembangan Media Pembelajaran Interaktif Mata Kuliah Tata Hidang," Inotek, vol. 9, no. 1, 2005.

[3] A. Rachmawati, "Membangun Informasi Layanan Umum Rumah Kos Melalui Aplikasi Berbasis Web," J. Ilm. FIFO, vol. 9, no. 2, p. 155, 2017, doi: 10.22441/fifo.2017.v9i2.009.

[4] A. Budiman, L. S. Wahyuni, and S. Bantun, "Rumah Kos Berbasis Web (Studi Kasus : Kota Bandar Lampung)," J. TEKNOKOMPAK, Vol. 13, No. 2, 2019, 24-30. P-ISSN 1412-9663, E-ISSN 2656-3525 Peranc., vol. 13, no. 2, pp. 24–30, 2019.

[5] A. S. Hidayat, W. Ubleeuw, A. Fauzi, and P. M. Akhirianto, "Sistem Pengolahan Data Nilai Berbasis Web Pada Sekolah Menengah Pertama (Smp) Karel Sadsuitubun Langgur," J. Teknol. Inform. dan Komput., vol. 5, no. 2, pp. 13–23, 2019, [Online]. Available: https://repository.bsi.ac.id/index.php/unduh/item/232098/260-517-1-PB.pdf.

[6] F. Teknik, S. Informasi, U. Batam, and K. Batam, "Rancang Bangun Rumah Kost Berbasis Web Untuk," vol. 11, no. April, pp. 1–24, 2021.

[6] Z. R. S. Elsi, "Perancangan Aplikasi Pengolahan Data Obat Berbasis Mysql Dengan Client Server," J. Digit. Teknol. Inf., vol. 2, no. 1, p. 43, Mar. 2019, doi: 10.32502/digital.v2i1.2486.

[7] D. Haryanto and Z. R. S. Elsi, "Perancangan Perangkat Lunak Sistem Pemesanan Pada Pelangi Cake," J. Tek. Inform. Musirawas, vol. 6, no. 1, pp. 51–60, 2021, doi: 10.32767/JUTIM.V6I1.1314.

[8] Z. R. S. Elsi, G. Rohana, and V. Nuranjani, "New Student Admissions Information System With Client Server Based Sms Gateway," JITK (JURNAL ILMU Pengetah. DAN Teknol. KOMPUTER), vol. 6, no. 2, pp. 159–166, 2021, doi: 10.33480/jitk.v6i2.1377.

https://doi.org/10.56481/cister.v2i01.164

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