

ANDROID-BASED MAID RECOMMENDATION

Muhammad Ihsan¹, Rila Mandala²
Faculty of Computing
President University
Bekasi Indonesia
mihsan36@gmail.com

Abstract—Maids are an important part of the household, in this case problems arise related to people who have high activities such as career women, including housewives, or other families. The daily routine which is quite dense makes them unable to do all household chores by themselves. Due to his busy life in order to complete household chores, a household assistant is needed. One solution to the above problems is the availability of an Android-based application for maid recommendations. This application was created to make it easy for consumers to find a maid quickly and easily. This application can display various service providers with complete and detailed information to make it easier for consumers to choose the services needed.

Keywords- Maid Recommendation, Information System, Android

I. INTRODUCTION

Today's information technology is advancing at a rapid rate. One of the information technology which is growing rapidly is Internet. The internet is widely used to exchange information inside virtual world, by using Internet technology people can access information anywhere and anytime, without any time limit [1]. Smartphones as telecommunications and information media that can access the internet anywhere and anytime. As is known today, one of the rapidly growing information technologies is the use of smartphones with the Android Operating System, Android-based smartphones are also very useful in communicating and looking for information via the internet [2]. The key benefit of the mobile application is that it allows users to access information when on the go. The increasing number of smartphone users are also making mobile applications commonly used everyday, apart from being easy to use, mobile applications are also portable and can be used in various places in a portable way [3]. So the ease of use of the smartphone can be applied to the design

of making an Android-based maid recommendation application.

The Department of Labor is a government department that deals with the manpower field, which is currently having difficulty seeking information about a maid due to information limitations. As a result, prospective employers who wish to locate and recruit a maid can inquire at the Manpower Office for information about auxiliary friends or relatives. Maids are an important part of the household, in this case problems arise related to people who have high activities such as career women, including housewives, or other families. The daily routine which is quite dense makes them unable to do all household chores by themselves. Due to his busy life in order to complete household chores, a household assistant is needed.

The current maid process is generally carried out by contacting closest relatives, neighbors or friends who know and can provide recommendations. This method makes it difficult for service seekers because the information is very limited and spreads to many people making it difficult to obtain. Another way is by placing advertisements in newspapers. However, this method is costly and does not guarantee that service seekers can find the information and services they want. In addition, this method confuses service seekers because the information is unclear and uncertain.

Based on these weaknesses, it can be said that until now there has been no information platform and intermediary to connect service seekers and maids. One solution to the above problems is the availability of an Android-based application for maid recommendations. This application can connect both parties, namely service seekers (consumers) who need maid and maid (partners). This application was created to make it easy for consumers to find a maid quickly and easily. This

application can display various service providers with complete and detailed information to make it easier for consumers to choose the services needed.

II. LITERATURE STUDY ANDROID

Android is a mobile operating system that was created for Linux-based devices. Android Inc was the company that created the operating system [5]. In 2007, the Open Handset Alliance (OHA), a group of several corporations, namely Texas Instruments, Broadcom Corporation, Google, HTC, Intel, LG, Marvell Technology Group, Motorola, Nvidia, Qualcomm, and Samsung Electronics, was created in an effort to grow Android.

A. XAMPP

XAMPP is a tool that provides software packages into one package [6]. By installing XAMPP, it is no longer necessary to manually install and configure Apache, PHP and MySQL web servers. XAMPP will automatically install and configure it for you or autoconfiguration.

B. UNIFIED MODELING LANGUAGE

UML is a graphical notation in the form of meta-models, which can be used to describe and design software systems, especially object-oriented programming systems [7]. By using UML, problem definition can be done with graphical notation, making it easier to understand complex systems.

1. Use Case Diagram

Use case is a description of the function of a system from the perspective of the users of the system. The use case defines "what" the system does and its elements, not the "how" the system and its elements interact with each other. Use case works by using "scenario", which is a description of the sequence of steps that describe what the use of the system or vice versa. The use-case diagram identifies the functionality of the system (use case), the user interacting with the system (actor) and the association/connectedness between the user and the system functionality.

2. Activity Diagram

Activity diagram is a control flow diagram between one activity to another. This diagram depicts actions and results. The activity diagram is also an expanded flowchart chart. Diagram of activities in the form of operations and activities in the use case.

3. Class Diagram

The diagram class describes the relationship between the objects involved in the system, the diagram class can indicate both operation and properties within an object.

III. SYSTEM ANALYSIS AND IMPLEMENTATION

The analysis of non-functional describes the system's requirements that concentrate on the system's behavior properties, such as software, hardware, and user requirements, as the content of deficiency analysis and requirements to be met in the design of the system to be implemented.

A. Use Case Diagram

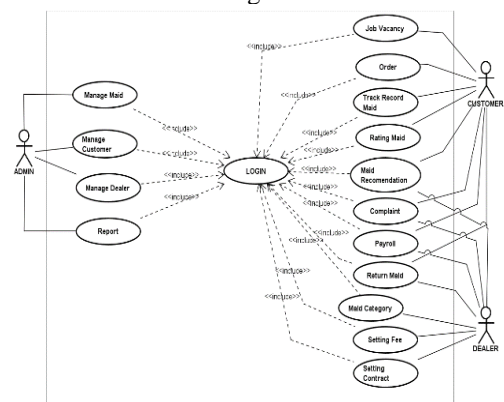


Figure 1. Use Case Diagram

System implementation is an application system development based on the draft that has been created. The creation of user interfaces and coding frameworks is covered in this chapter. The coding framework that explains the important parts of the source code in the application and the creation of the user interface defines each component of the application's user interface.

1. Register Page

User Registration page serves to register for the *user*. On this page the user must fill in the user's personal data field as well as the *username* and *password*. Here is the form of registration page.

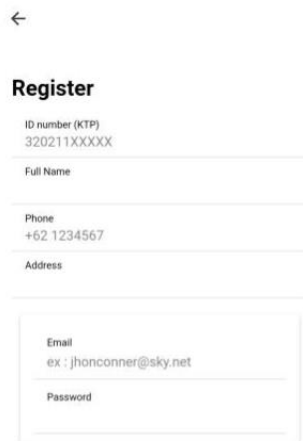


Figure 2. User Register Page

- 2. Login Page
The login page is the main page displayed when the system is accessed, the following view from the login page.

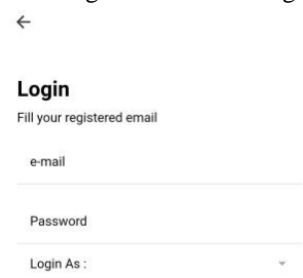


Figure 3. User Login Page

- 3. Job Vacancy Page
The job vacancy page serves to view all existing job offers.



Figure 4. User Job Vacancy Page

- 4. Order Page
Order page serves to order helpers who are interested in working. Here is the implementation of the order page.



Figure 5. User Order Page

- 5. Track Record Page
The track record page serves to view the track record of the existingmaid. Here is

the implementation of the track record page.

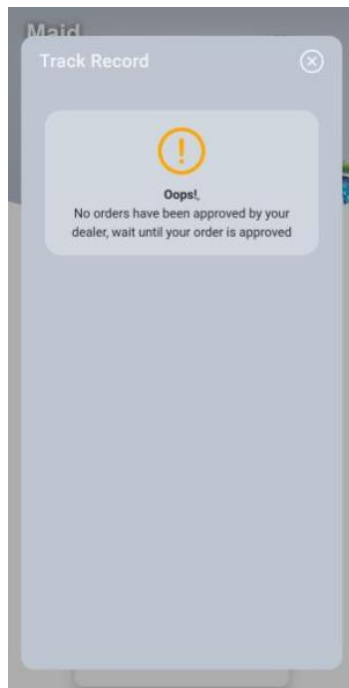


Figure 6. User Track Record Page

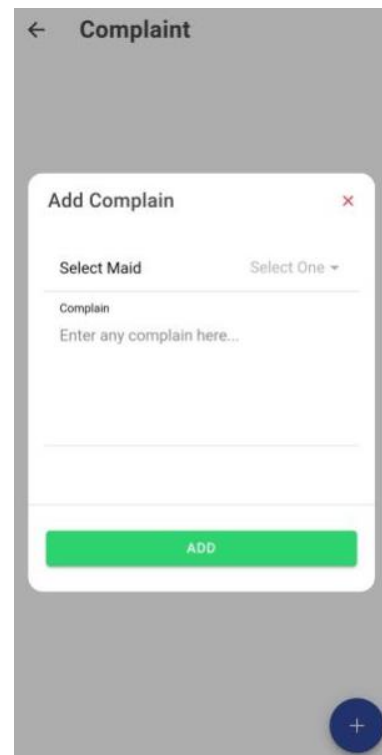


Figure 7. User Complaint Page

6. Complaint Page

Complaints page serves to make complaints on the part of the helper dealer. Here is the implementation of the complaint page.

6. Setting Fee Dealer

This page is used to set the dealer fee. Here is the interface of the dealer fee setting page.

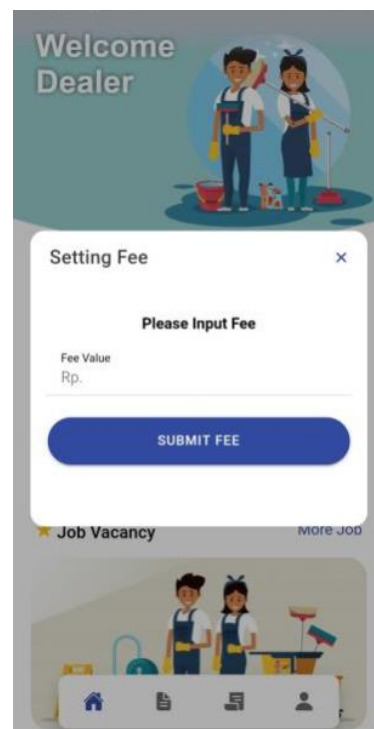
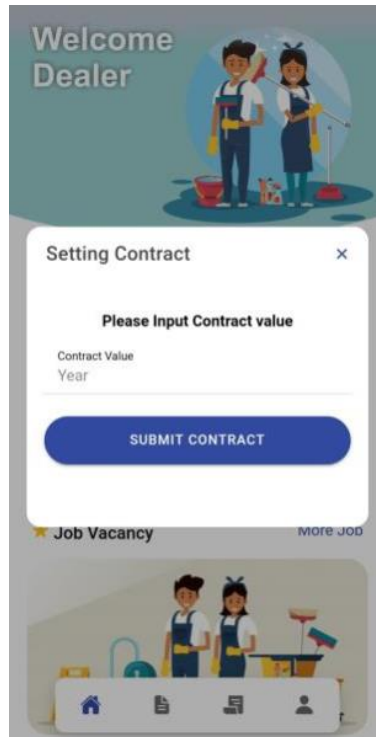


Figure 8. Dealer Setting Fee Dealer

2. Setting Contract Dealer
This page is used to set the dealer contract. Here is the interface of the dealer contract setting page.



Figure

9. Dealer Setting Contract

IV. CONCLUSION

As for the conclusion of the research is:

1. Has successfully built a home assistant search application "Maid Recommendation Application" on android-based consumer modules that can be used to search for

household assistants, baby sitters, drivers, and security guards.

2. The app runs on an Android-based smartphone, run online with an internet connection.
3. Based on the testing of the application menu function and user interface conducted, it can be concluded that the functions on each application menu can run properly in accordance with the functions tested.

REFERENCES

- [1] Ilmi, H. Z., dan Qhoiriah, A. 2016. Perancangan Sistem Informasi Pencarian Asisten Rumah Tangga Berbasis Web. *Manajemen Informatika*, 1(6), 99–107.
- [2] Danela, K., Liliana, dan Palit, H. N. 2017. Pembuatan Aplikasi Crowdsorce Untuk Jasa Rumah Tangga Berbasis Android. *Infra*.
- [3] Sifauttjani, F., Listyorini, T., dan Meimaharani, R. 2017. Pencarian Rumah Makan Berbasis Android. *Simetris*, 8(Android), 309–316.
- [4] G. W. Sasmito, "Penerapan Metode Waterfall Pada Desain Sistem Informasi Geografis Industri Kabupaten Tegal," 2017.
- [5] E. Maiyana, "PEMANFAATAN ANDROID DALAM PERANCANGAN APLIKASI KUMPULAN DOA," 2018.
- [6] B. E. Purnama and A. N. Cahyanti, "Pembangunan Sistem Informasi Manajemen Puskesmas Pakis Baru Nawangan," 2012.
- [7] R. H. H. Hs And M. Arifin, "Perancangan Sistem Informasi Pusat Karir Sebagai Upaya Meningkatkan Relevansi Antara Lulusan Dengan Dunia Kerja Menggunakan Uml," 2017.