AISJ Asia Information System Journal

e-ISSN 2963-8593
p-ISSN XXXX-XXXX

DESIGNING A SERVICE AND INFORMATION SYSTEM FOR BRIDAL MAKE-UP ARTISTS (MUA) BASED ON ANDROID

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Article Info	Abstract
	Make-up service ordering services still use sms and telephone as a medium of communication between customers and professional make-up artists (MUA). An MUA used to offer or promote his services through Facebook, Instagram and so on. The use of these media is still ineffective. Less information is obtained so that the customer difficult to get services that suit their tastes or needs and are difficult to adjust to MUA. The purpose of Make-up for changing fashionable face which is judged to be less than perfect and for embellishing fashionable face especially for women to present at event or events such as weddings. The research method in this research is qualitative research where strategic is used is design and creation. This study used data collection methods and interviews, observations and literature studies. The design method used is the waterfall and the testing techniques used are Black Box and White-Box. From this research become a result the design of the make-up service centre application displays a list of MUA profiles on the MUA Makhsun Photography Gisting make-up service, the prices offered and customers can check the availability of make-up made based on android that can be accessed using a smartphone, The design this application wised giving information about Make-up service centre and also make it easier to find and order make-up services according to the needs of customers or users.

To cite this article:

INTRODUCTION

The development of information technology (IT) is very rapid and makes people find it easier to do their job. IT provides added value in the form of efficiency and effectiveness. The need for IT is quite high because it offers efficiency and effectiveness to support the organization in achieving its goals, which can contribute to increasing its competitiveness[1]. Facial styling or what is commonly called make-up is one of the supports so that the appearance looks more attractive[2]. Make-up is an activity to change the appearance and shape of ash with the help of cosmetic ingredients and tools[3]. The term make-up is more often aimed at changing the shape of the face make-up for the face requires a lot of knowledge about Anatomy (to give the ideal shape of the body), characterization of colour and gans (to give the character of Gradation of colour (for final make-up), and colour composition. Some examples of make-up are lipstick, mascara, eye liner, eye shadow, and blush on. Make-up is very synonymous with women even even thought make-up users

do not rule out men and are believed to be a means to make appearance more exciting[4].

Currently looking using make-up is a necessity for society, especially women to attend an activity or events such as weddings, graduations, parties and others. Lack of experience and knowledge about self-embellishment (make-up) and lack of information about make-up services in cyberspace are factors in the difficulty of obtaining services that suit their needs so many people need MUA services.

Currently, the process of ordering make-up services on Makhsun *Photography* still uses sms and telephone as communication media between the customer and the make-up artist. Does a make-up artist usually offer? promotes their service information displayed in these media tends to be incomplete so consumers need further information and communication in the transaction process due to the lack of information obtained it is difficult for customers to get juice that matches their tastes or needs and it is difficult to adjust schedules with make-up artist[5].

For this reason, a system is needed to make it easier to find and order make-up services according to user needs. With this system, customer needs and make-up can be accommodated completely. This system develops entrepreneurship by empowering make-up to offer or promote their services by posting their work.

Make-Up

Make-up or commonly known as make-up has now become part of the routine of modern society, especially for women. The use of make-up itself has developed into a need to beautify yourself, show your identity and personality, and follow the development of fashion, especially in the entertainment world where professional make-up artists gather. Please note, that the use of facial make-up can not only be done by a professional make-up artist (MUA). Ordinary women can also use make-up to show concern for their appearance, in fulfilling their daily life activities like a professional make-up artist (MUA). However, the use of this make-up also has certain stages that should not be underestimated. The use of facial make-up by paying attention to the correct stages will help get optimal beauty results, without damaging

the user's facial skin, because it is very important to use cosmetic products and equipment that are suitable for skin type and by paying attention to the shape of the face.

Mobile Application

A mobile application is an application that allows us to carry out mobility using equipment such as PDAs, cell phones or cellphones. By using mobile applications, we can easily carry out various activities ranging from entertainment, selling, studying, doing office work, browsing and so on. The utilization of mobile entertainment applications is the most favoured by almost 70% of cellular phone users because by utilizing the features of games, music players, and video players, it becomes easier for us to enjoy entertainment anytime and anywhere[6].

Android

Android is often said to be a green robot, because of the logo introduced by the search engine giant, Google inc. Android is an operating system for mobile phones based on Linux. Android provides an open platform for developers to create their applications for use by various mobile devices. Initially, Google Inc. Purchased Android Inc., the newcomer who made software for cell phones. Then to develop Android, the Open Handset Alliance was formed, a consortium of 34 hardware, software, and telecommunications companies, including Google, HTC, Intel, Motorola, Qualcomm, T-Mobile, and Nvidia[7]. At the time of the inaugural release of Android, November 5, 2007, Android together with the Open Handset Alliance stated that they supported the development of open standards on mobile devices. On the other hand, Google releases Android codes under the Apache license, a software license and open standards for mobile devices [8].

Android Studio

Android Studio is a new Android development environment based on IntelliJ IDEA. Similar to Eclipse with ADT Plugin, Android Studio provides integrated Android developer tools for development and debugging. On top of the capabilities you'd expect from IntelliJ, Android Studio offers:
   a. Gradle-based build support.

b. Android refactoring, specifics and exact fixes.

c. Lint tool to capture performance, usability, version compatibility and other issues.

d. ProGuad and application-signing capabilities.

e. template-based wizard for creating common Android designs and components.

f. A layout editor that allows you to drag and drop UI components, preview layouts on multiple screen configurations, and more[9].

Web programming (web programming) consists of the words programming and web. Programming itself can be defined as the process or way of making programs using a programming language. The programming language is the language used to give instructions to the computer so that the computer can process data and display information as desired by the Programmer[10]. This web programming can be defined as the activity of making web-based programs or applications using a particular programming language so that it can process data and produce information as desired by the web owner[11].

METHOD
Method Of Collecting Data

In this case, the researcher collects information to answer all these questions, this study used several procedures for collecting information, among others, as follows:

1) Observation is a method of collecting information, where at this stage researchers obtain information directly on the object of research to closely monitor the information system in Margodadi Village.

2) Literature review
A literature study is a method used to collect information in which researchers collect information from various sources, namely from books, theses, diaries and other books related to research.

3) Interview
The interview is by asking direct resource persons in Margodadi Village and the people of Margodadi Village about the Margodadi village information system.

System Development Method

The system development method used in this research is SDLC (System Development Life Cycle) or the System Development Life Cycle in software engineering, which is the process of creating and changing systems as well as the models and methodologies used to develop these systems.

This concept generally refers to a computer or information system. SDLC is also a pattern taken for developing a software system, which consists of the following stages: Design, Analysis, Design, Code, Implementation, Testing and Maintenance [12].

The steps taken are:

1) Analysis In this stage the author begins to analyze what are the needs of the system, starting from the functional requirements of the system and the non-functional requirement the system.

2) Design The design stage is an advanced stage of the analysis stage where at this stage the design of the application is presented, such as interface design, and database design that will be applied to the Academic Information system that will be created.

3) Coding At this stage the author applies the database design and interface design to the programming language, where the programming language is used.

4) Testing The test phase is the final stage in the SDLC method where in this testing phase the black box testing technique is used[13].

RESULT AND DISCUSSION
On-going System
On-going system analysis is defined as the decomposition of a complete system into its components to identify and evaluate problems that occur. The system that is running in society today, the process of ordering make-up services still uses sms and telephone as a medium of communication between customers and make-up. Make-up artist usually offers or promotes their services through Facebook, Instagram and so on. The use of these media is still less effective because the service information displayed in the media tends to be incomplete, so consumers need further information and communication in the transaction process with Makhsun *Photography* Gisting[14].
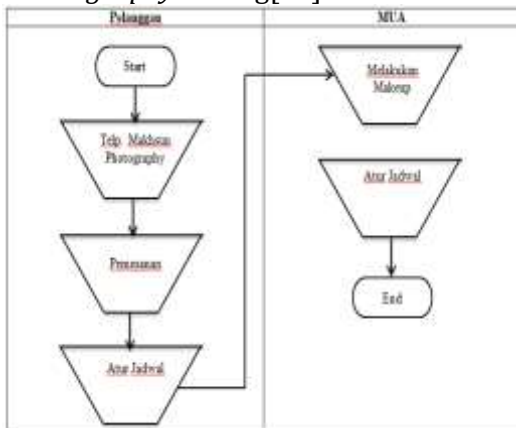

Figure 1. The system running of Makhsun Photography Gisting.

Proposed System
System analysis is the decomposition of a complete system into its parts to identify and evaluate problems. At this analysis stage, the requirements that will be met in making the application are defined[15]. The following is a description of the parts of the analysis phase which includes a general description, requirements specification, and user identification[16]. The flow map diagram of the process in service at Makhsun Photography that will be proposed is as follows:
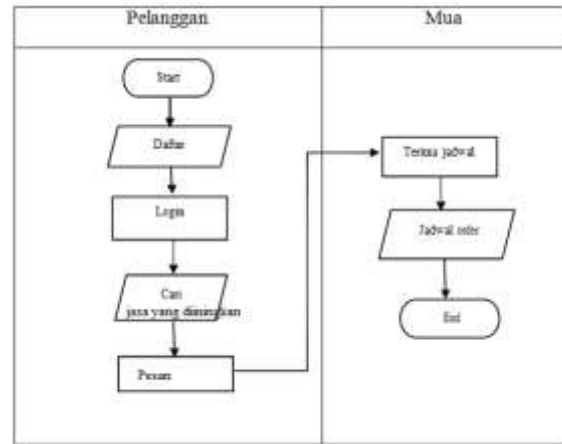

Figure 2. The proposed system

Use Case **Diagram**
A *Use Case* diagram is a scenario description of the interaction between the user and the system[17]. Use case diagrams to describe the relationship between actors and the activities they can perform on the application. Based on the results of the needs analysis conducted by researchers, the use diagram of the system to be made is as follows:
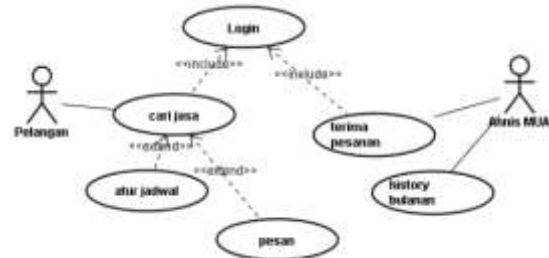

Figure 3. Use case Diagram

a. Login interface design
The login interface is used to log into the authentication system using the hashing method by utilizing the hash plugin in javascript android studio[18].

Figure 4. Login Page Design

b. Interface design add the schedule
The interface for adding a schedule is on the admin side of Kota Agung[19]. Used to add schedule Makhsun Photography Gisting

Figure 5. Design of the Add Schedule Page

c. Profile interface design
The profile interface is used to edit profiles from the user and admin side[20]. Makhsun Photography Gisting

Figure 6. Profile Page Design

d.Booking interface design
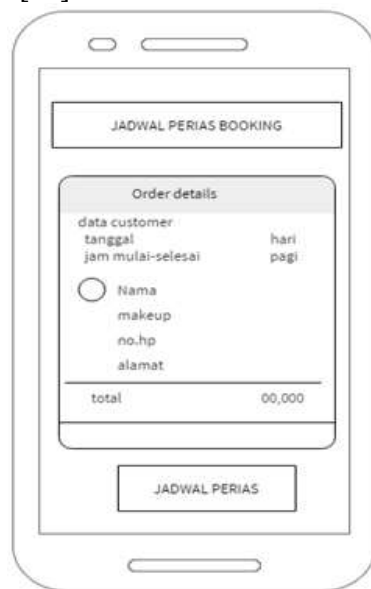The booking interface is used to make a reservation after selecting the type of service you want[21].

Figure 7. Booking Page Design

CONCLUSION
Based on the explanation above, it can be concluded that:
The results of this study are a service system design at Makhsun Photography by trying to analyze the current system and trying to propose an analysis of the proposed system which is expected to help Makhsun Photography in carrying out its business processes even better by utilizing technological advances, especially mobile service technology via Android.

Suggestion

From the explanation above, it can be concluded several suggestions, namely:
This study resulted in an application design for Makhsun Photography services, it is hoped that further research can implement the results of this design into an application form that can be used to assist business processes in Makhsun Photography.

Avoid using SI and CGS together, for example, the current in amperes and the magnitude of the magnetic field in oersted. This will cause an error because the dimensions are not suitable. State the unit used in each quantity, either SI or CGS units.

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