



## **Android-Based Wedding Planner Application System Design (Case Study: Nawasena Organizer)**

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### **Abstract**

In an era of increasingly rapid technological development, the need for information is very important for society. With advances in technology, people are able to access the information they need quickly and accurately. Technological advances are also starting to enter various business fields. Usually, technology in the business sector is used as a marketing medium with a wider reach to attract the interest of potential consumers. Applications are a form of technological and informational progress that makes it easier for the public and business actors to access or disseminate information. One of them is a wedding planner application. This application can provide information or an overview of what is needed in the wedding procession. Nawasena Organizer is a wedding planner service provider. Nawasena itself still uses social media methods to communicate with customers. Because it is still quite complicated when it comes to explaining what services are available, communication between admin and customers takes a long time because there are many things that have to be explained directly. For this reason, a wedding planner application system is designed to make it easier for customers to find out all the information about wedding services. This wedding planner application is planned to be built on the Android operating system, which is a system that is very commonly used by all levels of society.

**Keywords:** Wedding, Android, Applications, Services, Organizer

### **I. INTRODUCTION**

The rapid development of technology that is widespread in social life has had an impact on various fields, including economics, politics, and government, as well as in various other fields. People who are accustomed to living in an increasingly technological environment are experiencing very rapid changes and are influenced by these technological developments. The rapid development of technology also provides various conveniences in daily life, such as to easy access information from the outside world via mobile devices and the internet [1].

Due to the rapid development of technology and information, it has become easier for people to dig up any information, including information regarding wedding planning needs, where people usually have difficulty finding information and needs for a wedding event, starting from selecting decoration vendors, make-up, documentation, entertainment, catering, delivery, and other needs that make it difficult for parents and prospective brides and grooms to find all the information they need

regarding preparations for organizing a wedding event that is held.

Marriage is a normal and common thing that occurs in society, and many people have experienced proposals or similar events, especially in Indonesia. While the bride-to-be is waiting for her partner to propose or for the wedding itself, it is time to start making the biggest preparations for her wedding. Of course, there are various reasons why planning a wedding or proposal can make people confused or unsure about what to do to prepare for a wedding event [2] [3].

In the journal of Information System Applications for Web-based Wedding Package Orders (Case Study at Sanggar Laras Wedding Bogor) in 2018, Muhammad and Yahdi Kusnadi explained: "Every person has a dream about an elegant wedding reception. However, a wedding reception that matches your dreams requires quite long and complicated preparations, as well as a hefty budget. Very busy activities make it difficult to allocate a lot of time to prepare everything yourself [4]." Harrys B. E. Silalahi, Agung Nugroho Jati, and Ratna Astuti

Nugrahaeni in a journal entitled "Designing and Realization of Mobile Application for Wedding Management and Planning," explained that accommodating and preparing wedding planning is a problem that has opportunities big enough to work on as a startup in this era [5].

Therefore, an idea emerged to solve this problem by utilizing technology that has been developed by creating a wedding planner application with the hope that this application can help prospective brides and grooms prepare for the wedding event they have planned. This application contains the wedding vendors needed by prospective brides and grooms who are holding a wedding event, so that in preparation for the event, prospective brides and grooms will no longer have to worry about selecting vendors that suit the concept of the event and the availability of funds, because in this application it includes the prices for each vendor or wedding package selected. By building this Android-based wedding planner service application system, it aims to make it easier for users to find all kinds of information regarding event plans or orders related to various wedding needs quickly and reliably. In accordance with what the bride and groom expected [1].

From the explanation presented in the background above, the problem formulation taken in this research is how to design an android-based wedding planner application (case study on Nawasena Organizer). How is the android-based wedding planner application implemented (case study on Nawasena Organizer). The aim of this research is designing an Android-based wedding planner application with a case study on Nawasena Organizer. Implementing an Android-based wedding planner application with a case study on Nawasena Organizer. The benefit of this research is helping prospective brides and grooms to choose vendors for their wedding event, so that they can be helped more by this application.

## II. LITERATURE REVIEW

### 2.1. Previous Research

Muhammad Rasyid Shadiq, Beni Susanto, Irving V. Papatungan Booking Application Design for Event Organizer "Evoria" with a User-Centered Design Approach The result of this research is to obtain a user-centered system design approach. The UI design and prototyping process for the "Evoria" application can be quickly created and tested because each stage requires feedback so that updates can be made according to user needs [6]. Dwika Permata, Elfi Tasrif, Ika Parma Dewi, Design of a Wedding Organizer Ordering Information System in Padang In this research, the design of a web-based wedding organizer ordering information system can provide more complex and detailed wedding packages, making it easy to order various kinds of wedding packages, can help service providers for promotion

by providing facilities and platforms for selling wedding packages, and can make it easier to find the wedding package we need. Ernisa Yuniarti Satriyo Putri Hanung Nindito Prasetyo, Wahyu Hidayat, Acara-Acara Lancar: Wedding and Party Organizer Services Marketplace Application (Customer Module) This research obtained results: this application is able to facilitate prospective brides and grooms and service providers to communicate well regarding the needs and availability of various types of wedding packages. Winda noviana and Herry Mulyono Web-based Wedding Organizer Package Ordering Information System at Yaya Wedding Organizer, Rimbo Ilir the Wedding Organizer package ordering system that runs on Yaya Wedding Organizer is still done manually. The client must come to the location to make an agreement on selecting the package that is used at the wedding event. Then the client makes a down payment to the Yaya Wedding Organizer, and the staff books and archives the client's data on the dates determined according to the agreement. David Heydar Pratama and Ria Andryani Web-Based Wedding Organizer Information System Using Codeignite This wedding organizer information system can provide information about the services provided by Dinar Wedding Organizer and can help customers make orders wherever and whenever they are connected to the internet. [6] [7] [8] [9].

### 2.2. Teory

#### Design

The first step in building a system is designing the system to be built. Design itself is the process of developing new specifications based on recommendations and results from the system analysis process [10].

#### System

A system can be a collection of several elements that are integrated into a common goal to achieve the desired or expected goal [11].

#### Application

Android applications are Linux operating systems that run on smartphones. The existence of applications is very helpful in technological activities [12]. In the journal Muhamad Muslihudin and Yusuf Setiawan Raharja (2009), "A mobile application is a program that can be accessed using a mobile phone or smartphone. Mobile applications can also help with all daily activities such as selling, playing games, and completing school assignments and office work"[13].

#### Android

Android is a non-paid open OS based on Linux with an open platform for programmers to create applications. The Android operating system is predicted to be able to compete with other OS companies [14]. Android Studio is Android application development software. This software also has functions as a code editor and developer features [3].

## Database

In its planning, this application is planned to use a MySQL database, a system of database software commonly used to manage storage data. MySQL, or what is commonly called My Sequel, was first created by the start-up MySQL AB and then developed by Oracle in 2010. MySQL is free software, so it can be used by anyone [15].

## Java

Java itself is a flexible programming language that can be run on various devices, including smartphones. This programming language was created by James Gosling [16].

## Wedding Organizer

In Saputra (2016), the definition of a wedding organizer, according to Putranto (2013), is a service provider that provides assistance to the bride and groom and their families in planning various wedding events according to the available schedule and budget [17].

## Nawasena Organizer

Nawasena Organizer is an event organizer service provider that operates wedding events and is also known as a wedding organizer. Nawasena itself was formed on February 1, 2022.

## III. RESEARCH METHODS

### 3.1. Data Collection

In collecting the data needed for the research, the authors used several methods:

#### a. Observation

Researchers went directly to the Nawasena Organizer Secretariat and recorded the necessary data.

#### b. Interview

The researchers conducted an interview or asked questions to the owner about the obstacles and problems that occurred during the service and provided an explanation of the bride and groom's wedding needs so that the researchers could determine a solution.

### 3.2. Waterfall Model

In the Journal of Totok Mulyono (2018), Rosa and M Salahuddin (2013:28), it was explained that the waterfall model provides a sequential or gradual approach. The software life cycle starts with the

analysis, design, testing, coding, and support stages [18].

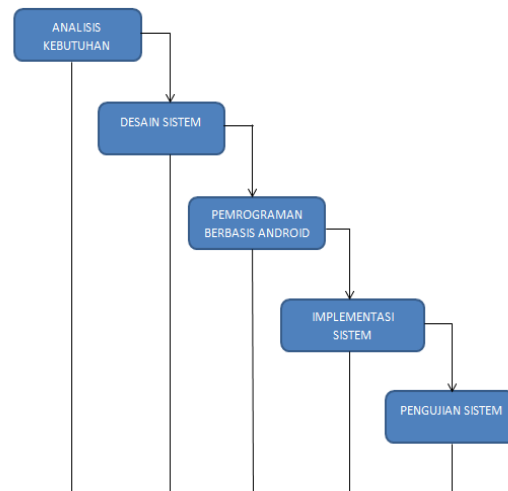


Figure 1. Waterfall method

#### a. Needs Analysis

System requirements analysis is a collection of needs and problems that have been obtained from observations and direct interviews with the owner, which aims to find out what the needs are for a system that will be built so that the authors can design an application according to his needs.

#### b. System Design

The second step is to design this application. The design of this application is tailored to your needs because it runs on the Android operating system, which is the system most commonly used today.

#### c. Android-Based Programming

The wedding planner application is designed with Android-based programming. Android Studio is needed to create smartphone applications using Java programming, while MySQL is the database.

#### d. System Implementation

The system implementation stage is a stage of using the application that has been created and carried out by the owner of Nawasena Organizer, and if it meets the requirements, approval will be obtained that the application is ready to operate.

#### e. System Testing

The system testing stage is the final stage to see whether the designed application program is functioning well or whether there are still problems in its use, so as to get the desired results.

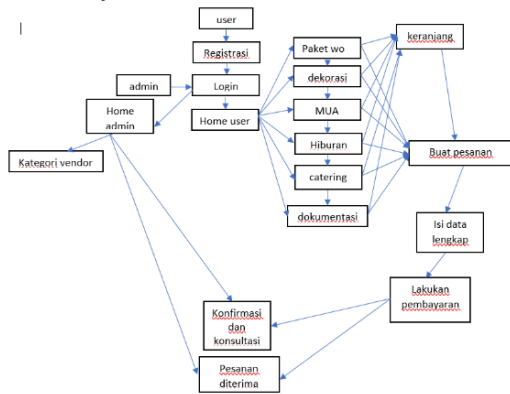
## IV. DISCUSSION

### 4.1. System Planning

System planning is a plan to design a system that is in accordance with what is needed by the user [19]. This system planning uses a use case diagram.

#### a. Use Case Diagram

Use case diagrams are diagrams that provide an overview of the relationships between actors and systems. Use case diagrams can also describe interactions between one or more actors and the system being built. Use case diagrams can also be used to discover how a particular function is in the system and to explain how operators interact with the system [20].



**Figure 2.** Use Case Diagram

**Explanation:**

**User**

- a. Registration  
In the registration case, the user is directed to register first by filling in some data, where the registration data becomes the initial data in the user's account.
- b. Login  
The login case contains user name and password columns for admins and users as entry requirements to access all features in the application.
- c. Home  
Home is the initial display of this application, which contains the requirements for wedding events.
- d. Wedding Organizer Package  
This WO Package Case contains packages for wedding services as a planner and executor.
- e. Decoration  
The decoration case contains decoration packages, and each package has its own advantages and disadvantages.
- f. MUA  
In this case, the user can choose the available MUA package according to their wishes.
- g. Entertainment  
In this case, the user is given several choices regarding what entertainment to choose later.
- h. Documentation  
In the documentation case, users are given several choices of complete documentation packages with appropriate package inclusions and prices.
- i. Cart  
In this use case, the user is able to enter orders that he is interested in but does not yet want to make payment for.

- j. Making an order  
This use case displays the process of ordering packages that have been selected by the user.
- k. Filling in the complete data  
In this use case, the user is given a form to fill in complete personal data. This personal data is also a reference during wedding events, so users are required to fill in their personal data carefully.
- l. Payment  
In this use case, the user is given a payment time according to the total price of each package ordered.
- m. Confirmation and Consultation  
In this case, users are given the convenience to consult regarding the packages ordered, so that the possibility of errors can be minimized.

**Admin**

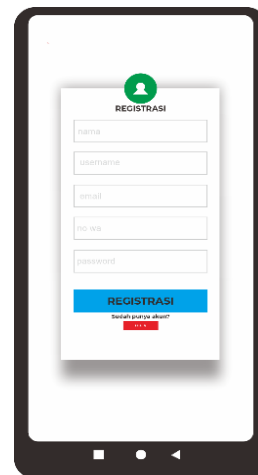
- a. Home Admin  
This use case contains wedding package data and can be changed by the admin if there are changes.
- b. Vendor Category  
This use case accommodates all wedding vendors who have entered into the collaboration.
- c. Order History  
This use case displays incoming orders so that they can be managed by the admin.
- d. Confirmation and Consultation  
This use case contains a chat between the admin and the prospective client, where this chat discusses the packages that have been selected.

**4.2. Discussion**

Implementation and discussion at the design stage of the Wedding Planner Application use designs from Corel Draw and Photoshop. To try out the application design, the smartphone used was *Readmi Note 8 Pro*, which uses the Android operating system.

**a. Registration Display**

The registration display contains some personal data, and this personal data becomes user profile information in the application.



**Figure 3.** Registration Page

**b. Login Display**

In the login display itself, there is a display that functions as an initial display before entering the application.

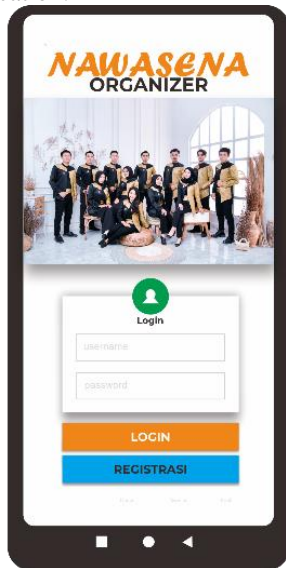


Figure 4. Login Page

**c. Main Menu Display**

The main menu display contains six categories needed for a wedding event, such as WO Packages, Decorations, MUA, Documentation, Entertainment, etc.



Figure 5. Home page

**d. WO Package Menu Display**

In the WO package menu display, there are three command menus. All three contain WO packages, and there are differences for each package. In each package menu, there are different prices, and what you get in each package is also different.

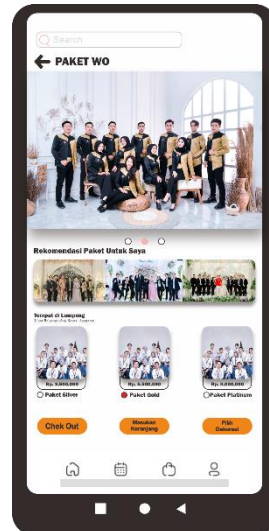


Figure 6. WO Package Page

**e. Decoration Package Display**

In the decoration package menu display, there are three command menus. All three contain decoration packages, and there are many differences for each package. In each package menu, there are different prices, and what is obtained in each package is also different; therefore, clients must be careful when choosing the available packages.



Figure 7. Decoration Package

**f. MUA Menu Display**

In the MUA display, there is a choice of makeup packages according to the needs of the prospective bride and groom.



**Figure 8.** MUA Package Page

**g. Catering Menu Display**

In the catering menu package, there are several food choices as well as food menu choices that can be customized according to orders.



**Figure 9.** Catering Package

**h. Documentation Menu Display**

In the documentation display, there are 3 package options: photo, cinematic video, coverage, and pre-wedding.



**Figure 10.** Documentation Package

**i. Cart Menu Display**

All orders placed in the basket are listed on this page, so changes to orders can be made before payment.



**Figure 11.** Cart Page

**j. Order Display**

In this order menu, all orders that have been placed are displayed, and progress is given in real time, starting from payment until the order is completed.



Figure 12. Order Display

## V. CONCLUSION

After carrying out design analysis and discussion in planning the Android-based wedding planner application system (case study on Nawasena Organizer), it can be concluded as follows the authors have succeeded in designing an Android-based wedding planner application system (case study on Nawasena Organizer). This application is designed to run on the Android operating system, so it is easy to use by the general public. In implementing testing, this application makes it easy to provide information to prospective brides and grooms regarding what is needed in planning their wedding. Advice for all, especially for developers of this application in the future, is that the author hopes that vendor features will be further optimized because, in designing the packages provided, they are still limited to vendors and cannot be accommodated by all.

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