

Design and Build a Wedding Organizer Using a User Centered Design Approach

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Abstract

Constraints that are often experienced by brides and grooms in determining wedding decorations and the type of clothing to be worn must of course match or match the desired decoration with the lack of information that can be used as a reference in making decisions regarding wedding preparations and wedding receptions. in accordance with the existing costs (budget). Currently, the system used by the Baba wedding organizer family still uses a manual system where the process must come directly to the place. Of course, this is an obstacle in sharing information and existing processes because it cannot be done by businesses all the time. To overcome this problem, it is necessary to create an information system, namely the Wedding Organizer Ordering Information System using the User Centered Design (UCD) Approach Method, a method in a design design that focuses on user needs. In relation to Information Systems, User Centered Design is part of the SDLC (System Development Life Cycle), so that the design of applications developed through UCD will be optimized and focused on the needs of end-users so that it is hoped that applications that will follow the needs of users and users do not need to change behavior. to use the app. The UCD approach will be used as the basis for the Baba Family website design. The software development method used is the User Centered Design method. This website-based wedding organizer information system uses the Codeigniter framework and the programming languages PHP, HTML, CSS, Javascript and MySQL Database Management System (DBMS).

Keywords

information system;
wedding organizer; budget;
user centered design
(UCD), MySQL



I. Introduction

Marriage is the most sacred and primary form of human relationship. So that every couple will definitely make the best preparations for the wedding. The preparation includes all the completeness of a wedding. Because marriage is something that is only done once in a lifetime, of course all couples will do their best for their marriage. The obstacle that is often experienced by prospective brides is the lack of information that can be used as a reference in making decisions regarding wedding preparations and wedding receptions that are in accordance with the existing budget. Organization must have a goal to be achieved by the organizational members (Niati et al., 2021). The success of leadership is partly determined by the ability of leaders to develop their organizational culture. (Arif, 2019).

Wedding organizers are one of the most sought after service providers because they are needed for people who don't want to be bothered in preparing all matters related to the implementation of the wedding. A wedding organizer can help the bride and groom do all

the preparations related to the wedding, starting from a series of wedding events according to what they want and according to their budget.

The Baba family wedding organizer is one of the wedding organizers that provides all wedding supplies ranging from wedding dresses, aisles, makeup and all room decorations. Currently the system used by the Baba Family wedding organizer still uses a manual system where the bride and groom must come directly to the place to discuss what kind of wedding preparation they want, of course this is quite time consuming. This is the cause of the limited information or lack of information obtained by the bride and groom regarding the Baba Family wedding organizer and also the recording of data for the bride and groom or wedding day data is still done manually.

The problem above is a reason for the need for an information system where the system can facilitate the bride and groom in choosing what kind of wedding preparation and various kinds of decorations, clothes, makeup they want. With this information system, it can also make it easier for the wedding organizer to provide information about the wedding organizer itself, this can also make it easier for the bride and groom to get information about the wedding organizer. Of course, with an information system it can make it easier for the wedding organizer to receive orders, with this system also the wedding organizer does not need to manually record order details because it can be done through the system.

II. Research Method

The research method used in this research is descriptive method. The definition of descriptive research according to Isty Dwi Rachmawati in Arifin (2012) is that this research is used to describe, explain, and answer questions about phenomena and events that are happening, including analysis of the phenomenon itself and the relationship between various variables in the phenomenon. The purpose of descriptive research is to (a) explain a phenomenon, (b) collect actual and factual information based on non-existent phenomena, (c) identify problems or justify ongoing conditions and practices, and (d) make comparisons and evaluations, and determine what others will do when faced with the same problem or situation, and use their experience to make plans and decisions for the future.

2.1 Method of collecting data

The data collection methods are as follows:

1. Observation

In this method, the author makes direct observations to the Baba Wedding Organizer's family in order to collect data, namely by seeing and visiting the Baba Wedding Organizer's family.

2. Interview

This interview method itself is a method that is carried out by way of question and answer in order to obtain the data needed by the author. Interviews were conducted by directly asking the parties concerned, namely interviews with the Baba family wedding organizer.

3. Literature study

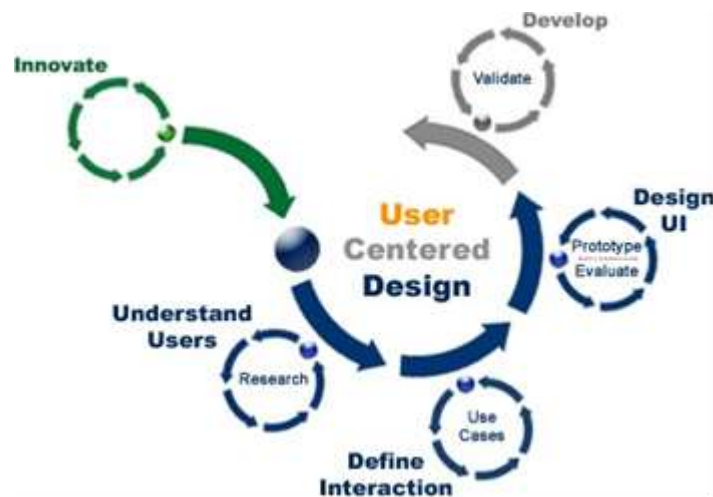
That is the method of collecting data by studying theories related to research. To obtain theoretical data, the authors collect data by reading and researching books, journals, papers or other reference materials related to the issues discussed.

2.2 System Development Method

The method used in research or design design on the Baba Family Wedding Organizer is UCD (User Centered Design). User Centered Design (UCD) is a method in a design design that focuses on user needs.

In relation to Information Systems, User Centered Design is part of the SDLC (System Development Life Cycle), so that the design of applications developed through UCD will be optimized and focus on the needs of end-users so it is hoped that applications that will follow the needs of users and users do not need to change behavior. to use the app. The UCD approach will be used as the basis for the Baba Family website design. According to Garrett (2005), UCD is a systematic stage that focuses on the desires and behavior of users in the process of creating a product design to increase its level of utility and accessibility. The establishment of the "Baba Family" Website started from an observation on a number of vendor ordering transactions on online and offline websites that faced a number of problems such as lack of user convenience, transaction security.

The stages carried out in UCD can be seen in the following scheme:



Source: (MR Sadiq, 2020)

Figure 1. The SAP User-Centered Design Process

As shown in Figure 1, the schema of the user-centered design process is divided into several steps, including;

1. The first stage is to understand the user. Where researchers seek to understand the wishes of users and the problems, they face are traced through research which is divided into several methods, namely observation, interviews. Observations were made by direct observation to Baba's Family Wedding Organizer in order to collect data, namely by seeing and visiting Baba's Wedding Organizer's Family and Interviews conducted with respondents of Wedding Organizer business actors.
2. The second stage, define interaction. The author conducts collective discussions in teams (brainstorming) to solve problems from the results of research from potential users and determine problems that will be developed into features.
3. The third stage, is prototyping which is shown in Figure 1. At this stage, the authors carry out the UI design process by doing a low-fidelity method, namely describing the basic pattern on paper using a pen and then continuing with high-fidelity using the "Adobe XD" design tools and prototyping process using the Marvel app. The design process adapts to functional or non-functional requirements for users as a solution to the system being built. The next stage is the design evaluation.

4. The fourth stage, is validate. After the prototyping process, the authors tested the design results that were considered to be in accordance with the user's wishes in the form of testing the respondents. The test is carried out to measure the level of conformity between the system design and the needs of potential users. then the stage continues in the process of developing a website (system developing).

III. Result and Discussion

The results that have been obtained by the author in building a wedding organizer information system is a website-based information system that can be used to carry out all activities related to wedding organizers in the wedding organizer baba family.

This research is useful and can make it easier for the family of the baba wedding organizer, costumer and brides-to-be who want to get information related to wedding organizers. The method used by researchers in building this system is a user centered design (UCD) approach.

User Centered Design (UCD) is a design design that focuses on user needs. In this method there are 4 stages, namely understand user, define interaction, prototyping, and validate. From the system that has been successfully built, there are 2 users and 2 web page views according to the user level, namely the admin user and the customer or customer. The following is an explanation from each user:

3.1 Admin Page

On this page the admin can manage existing data from adding, editing and deleting available data. There are 5 menus available in this view, namely:

- a. Home menu or dashboard that displays reports in the form of the amount of data available on this system.
- b. The wedding package menu displays wedding package data starting from the package code, package name, price, image and status.
- c. The Wedding Package Details menu displays details of existing wedding packages starting from the code, package detail name, image, description, status and action
- d. The wedding invitation menu displays online invitation data in the form of the groom's and bride's name codes, date and status
- e. The schedule menu displays schedule or calendar data starting from the code, event name, start date, end date, status and action.
- f. The Building menu displays data on building names starting from the code, building name, image, description, status and action.
- g. The clothes menu displays clothing data starting from the code, name, shirt image, description, status and action
- h. The decoration menu displays decoration data starting from the code, name, decoration image, description, status and action
- i. The order menu displays some data about the order starting from the name of the bride, the chosen place, the number of guests and proof of payment.

3.2 Visitor Page

On this page, visitors can perform a simulation and can also view information related to the wedding organizer baba's family starting from wedding packages, online invitations, and calendars. There are 5 menus available in this view, namely:

- a. Home menu or dashboard that displays multiple photo slides wedding and displays some information.

- b. The simulation menu displays several pictures of clothes and decorations and visitors can perform simulations or experiments related to wedding dresses and wedding decorations. Visitors can also check prices on this simulation page by choosing decorations, clothes and venues and entering the number of guests to be invited, the system will calculate prices according to the decorations, clothes and places and the number of guests selected.
- c. The wedding package menu displays several choices of wedding packages provided along with details of the existing packages.
- d. The invitation menu shows some examples of online invitations
- e. which will be a reference for the bride and groom.
- f. The calendar menu displays a calendar or schedule for a particular building provided in order to find out the existing schedule in the building that has been provided. In this menu, the system also displays existing order data to avoid ordering on the same date.

3.3 Discussion

a. Define Interaction

Define Interaction is the stage to build a wedding organizer ordering information system using the User Centered Design method, a case study of the Baba family wedding organizer. This website was built using the PHP programming language and MYSQL database. There are 2 users to access this website, namely admin and visitors. The following are the results of the interface of the system that has been created using the User Centered Design approach.

b. Admin Page

The admin page is the display of the admin user. Where this admin user has the highest access rights. Admin can add, edit and delete existing data on this system.

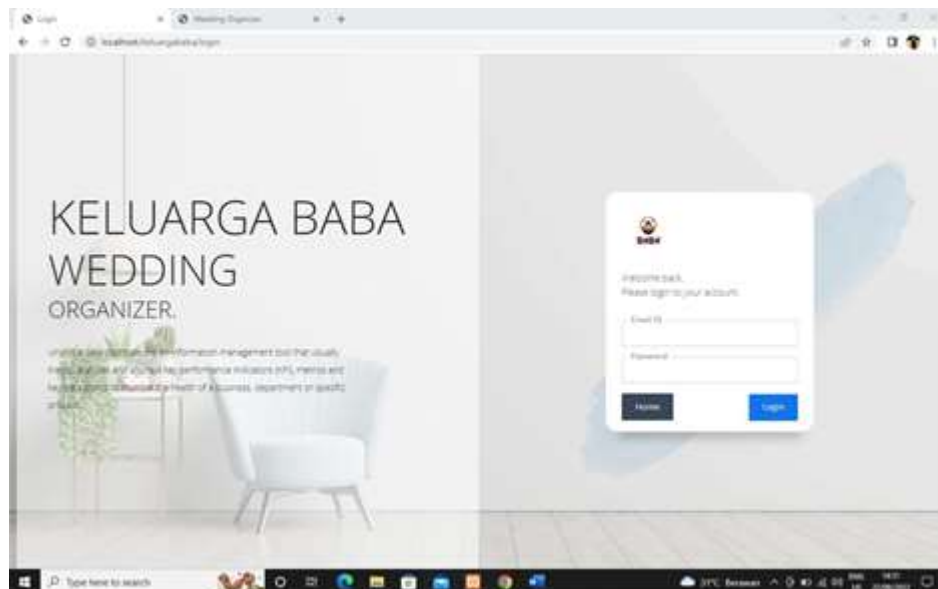


Figure 2. Login Page

Figure 2 is the result of the login page on the wedding organizer ordering information system using the user centered design approach to the case study of the Baba family wedding organizer. On this page the user will enter a username and password. If the username and password entered are correct, the system will display the admin dashboard

page, but if the username and password are entered incorrectly, the user will receive a failed login notification or the system will continue to display the login page.

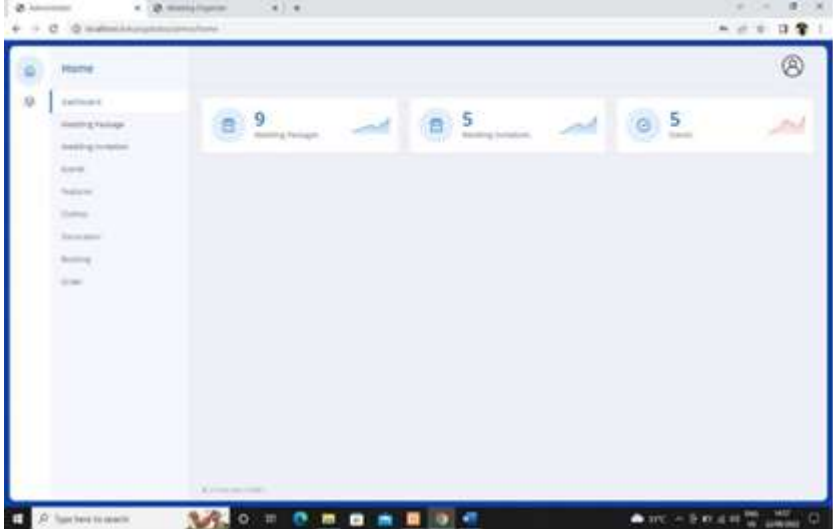


Figure 3. Admin Dashboard Page

Figure 3 is the result of the admin dashboard page. Where is this page that will be displayed by the system when the username and password are entered correctly. There are several menus displayed on the left of the website and the top right contains a log out menu to exit the system.

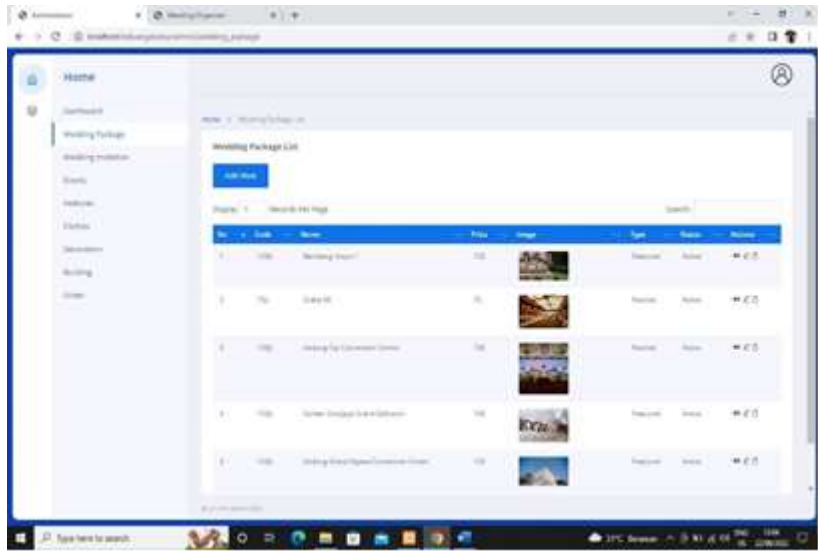


Figure 4. Wedding Package Admin page

Figure 4 is the result of the wedding package menu display where in this view it displays a table of wedding package data, besides that the admin has access to add, edit and delete existing data.

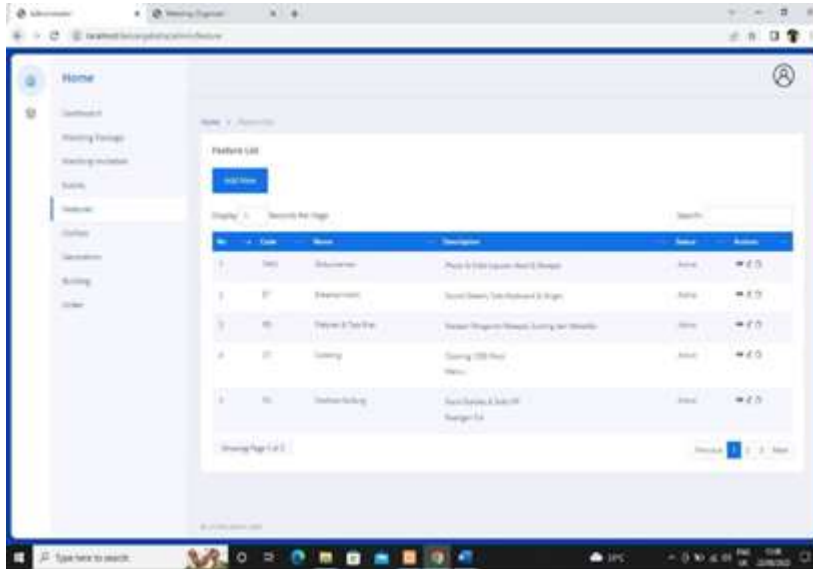


Figure 5. Wedding Package Admin Details Page

Figure 5 is the result of the wedding package detail menu display where in this view it displays a table of wedding package detail data, besides that the admin has access to add, edit and delete existing data..

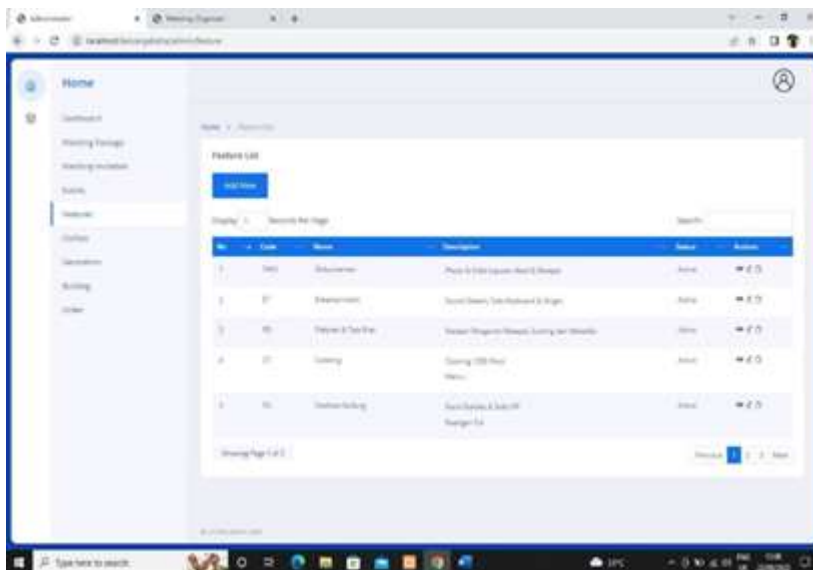


Figure 6. Wedding Invitation Admin Page

Figure 6 is the result of the wedding invitation menu display. In this view, the system displays the wedding invitation data table and the admin also has access to add, edit and delete existing wedding invitation data.

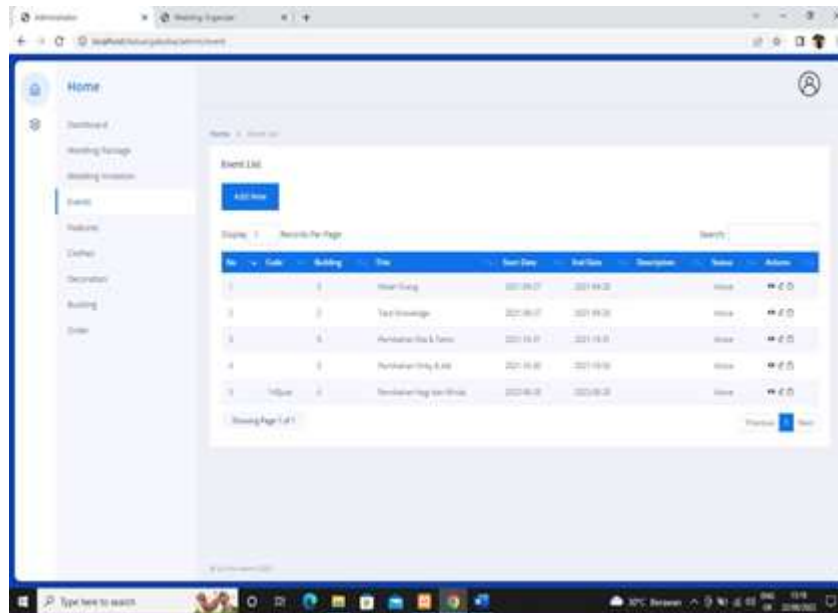


Figure 7. Admin Schedule Page

Figure 7 is the result of the schedule menu display. This view displays a table that contains some of the existing schedule data and the admin has access to add, edit and delete the available schedule data.

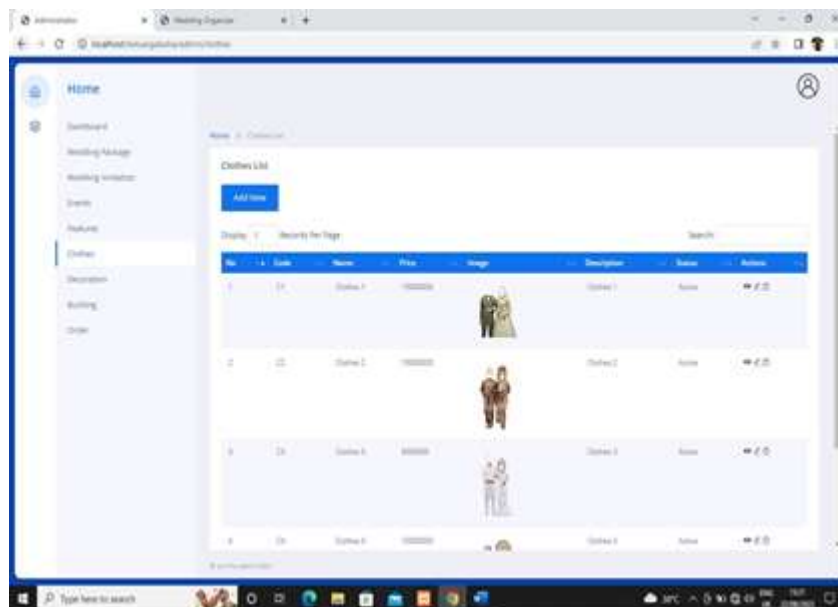


Figure 8. Admin Clothes Page

Figure 8 is the result of the clothes menu display where in this view the system will display a table of clothes data along with pictures of the clothes and also the admin has access to add, edit and delete existing clothes data.

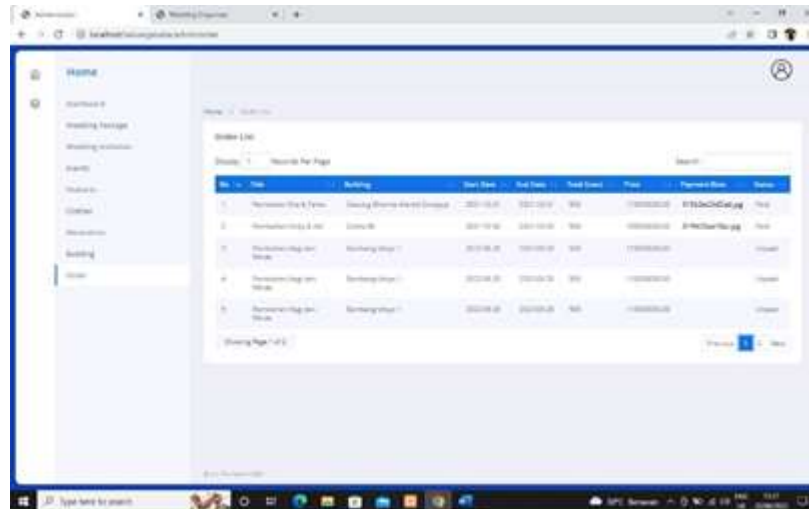


Figure 11. Admin Order Page

Figure 11 is the result of the order menu display where in this view the system will display a table of order list data in the wedding organizer baba family.

c. Visitor Page

This page is a page that will be displayed to visitors, here the author makes a simulation or method that visitors must do to order the wedding package they want. To place an order, we are required to login first, of course, to login, we must have login or account access. For those who do not have an account, it is required to register first on the system where we have to click the registration button on the menu then a registration form will appear as shown in Figure 12 below.

The screenshot shows a web application interface for account registration. The header includes the 'Baba' logo and navigation links: 'HOME', 'ABOUT US', 'WEDDING PACKAGE', 'PARTY', 'CONTACT', and a phone number '62821-7545-2148'. The main content area is a registration form with the following fields: 'NAME' (filled with 'Muhammad Ridwan'), 'EMAIL' (filled with 'muhammadridwan@gmail.com'), 'PASSWORD' (with a strength indicator), and 'PASSWORD CONFIRM' (with a strength indicator). A 'REGISTER' button is at the bottom of the form.

Figure 12. Account Registration Page

Next we will input or fill in the requested data to register in Figure 12 First enter the name, the name that is entered must be the original name after inputting the name then fill in the email address that is currently active after that create a password for the account to be registered then confirm the password to ensure account registration. After all the data has been filled in, click register, the system will process the account registration.

After registration then login to place an order as shown in Figure 14.

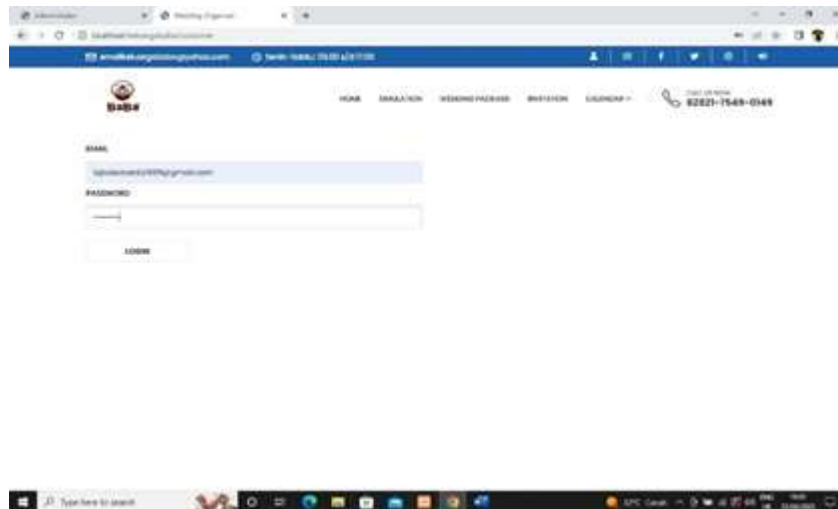


Figure 14. Login Page

Furthermore, to place an order, you are required to choose the clothes and decorations provided. To choose this we will do a simulation where there are several decorations and clothes that will be selected after doing the simulation and confirming the decorations and clothes that will be used here

I will choose decoration 1 and clothing 1 as shown in Figure 15 below.

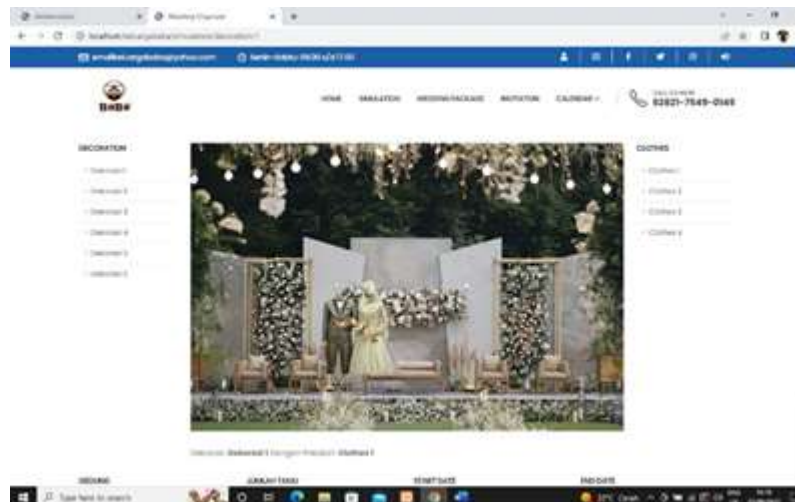


Figure 15. Simulation Page

Then choosing a place to use, there are several choices of places ranging from hotels and some of the buildings provided can be seen in Figure 4.15, the place I chose was the Harper Hotel. Next, fill in the number of guests to be invited here, I will invite 500 guests and fill in the date the wedding will be held. After everything is filled in, the system will calculate the price according to the choice of decoration, clothing, place and number of guests that have been selected.

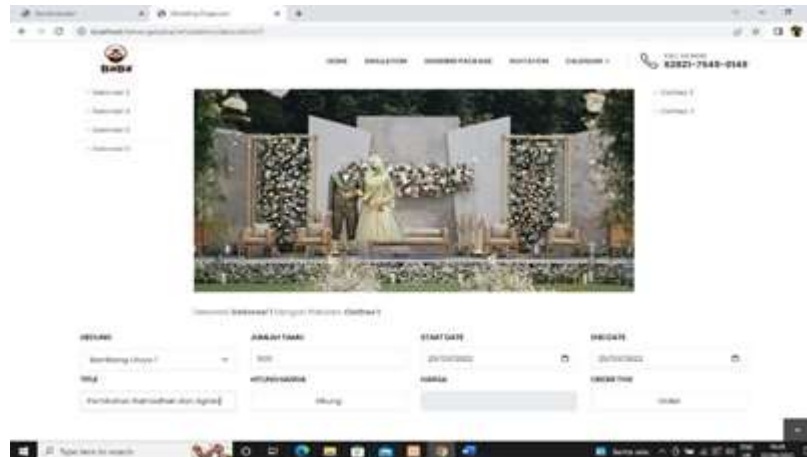


Figure 16. Simulation Page

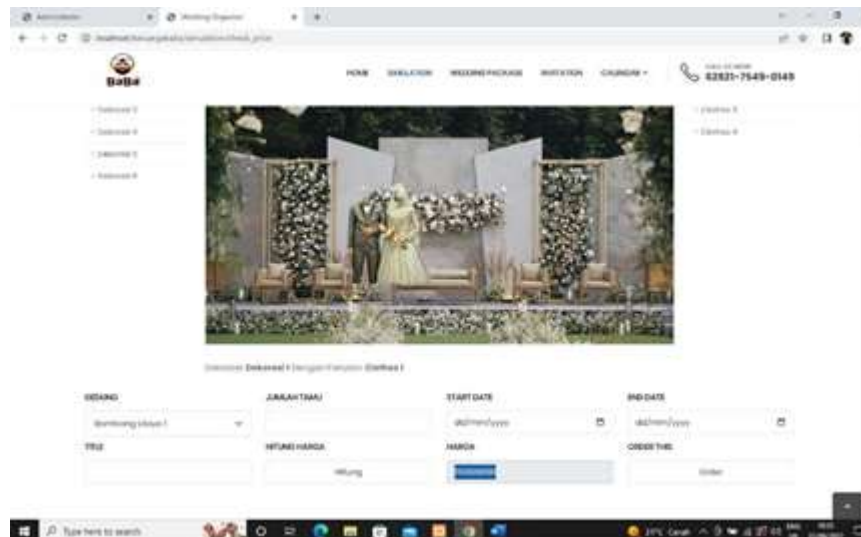


Figure 17. Simulation Page

After the system calculates the price, the next step is to place an order or click the order button. the customer is required to make a payment. Here I will pay as much as 50% of the price specified as a down payment or sign so (DP). The system will automatically display order information starting from the wedding date, number of guests, price and status here, the status will change automatically if you have uploaded proof of payment as shown in Figure 18 below.

No	Detail Order	Status	Wedding Date	Wedding Time	Price	Status	Payment Method	Payment Status
1	Paket Pernikahan Standar (1000 Tamu)	Order	20/07/2022	10:00	Rp. 10.000.000,00	Order	Transfer Bank	Belum Dibayar
2	Paket Pernikahan Standar (1000 Tamu)	Order	20/07/2022	10:00	Rp. 10.000.000,00	Order	Transfer Bank	Belum Dibayar
3	Paket Pernikahan Standar (1000 Tamu)	Order	20/07/2022	10:00	Rp. 10.000.000,00	Order	Transfer Bank	Belum Dibayar
4	Paket Pernikahan Standar (1000 Tamu)	Order	20/07/2022	10:00	Rp. 10.000.000,00	Order	Transfer Bank	Belum Dibayar
5	Paket Pernikahan Standar (1000 Tamu)	Order	20/07/2022	10:00	Rp. 10.000.000,00	Order	Transfer Bank	Belum Dibayar
6	Paket Pernikahan Standar (1000 Tamu)	Order	20/07/2022	10:00	Rp. 10.000.000,00	Order	Transfer Bank	Belum Dibayar
7	Paket Pernikahan Standar (1000 Tamu)	Order	20/07/2022	10:00	Rp. 10.000.000,00	Order	Transfer Bank	Belum Dibayar
8	Paket Pernikahan Standar (1000 Tamu)	Order	20/07/2022	10:00	Rp. 10.000.000,00	Order	Transfer Bank	Belum Dibayar
9	Paket Pernikahan Standar (1000 Tamu)	Order	20/07/2022	10:00	Rp. 10.000.000,00	Order	Transfer Bank	Belum Dibayar
10	Paket Pernikahan Standar (1000 Tamu)	Order	20/07/2022	10:00	Rp. 10.000.000,00	Order	Transfer Bank	Belum Dibayar

Figure 18. Order Page

If you have uploaded a proof of payment, the system will automatically display the date of the wedding on the calendar as shown in Figure 4.18 with the information already filled in for that date, besides that, an order description will automatically appear with the aim of the end not ordering on the same date.

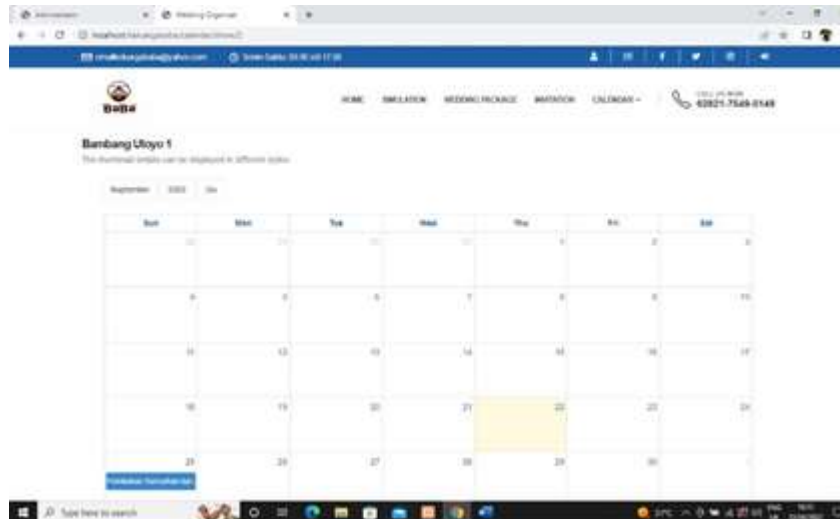


Figure 19. Calendar Pages

After uploading the proof of payment the system will process the order and the admin will receive a report of the order where the admin receives some order data such as what clothes and decorations will be used, the chosen place, the number of guests and the price. After the admin receives the order, the admin will process the order according to the order in the system

d. Validate

Validate itself is the stage where the author submits the completed system to the party concerned. At this stage the author has completed the system created and produced a wedding organizer ordering information system. Where this website will be submitted to the Baba family wedding organizer with the aim of being able to use it for work or activities related to the Baba family wedding organizer. This website also aims to be operated by the family of the wedding organizer baba and then it can be evaluated periodically so that it can be developed by adjusting the needs as the development of future information systems goes.

V. Conclusion

Based on the results of research conducted on the family of the wedding organizer baba, it can be concluded. First, a wedding organizer ordering information system has been produced using a user centered design (UCD) approach to the case study of the Baba Wedding Organizer's family. Both of these information systems can be accessed easily because they can be accessed online.

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