Web-Based Coat an Kebaya Rental Information System in Palembang City

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ABSTRACT

That study's objective is to develop and develop a web-based information system for renting suits and kebaya in Palembang City. This system is expected to facilitate the process of renting traditional clothing, especially suits and kebayas, for various events and occasions. The system will provide an online platform for customers to browse and select available Suits and Kebayas, make online reservations, and track their rental status. The system will also allow rental service providers to manage inventory, update availability, and accept online payments. The proposed system is expected to boost productivity and effectiveness of the renting procedure, increase customer satisfaction, and increase the competitiveness of rental service providers in Palembang City. The system will be developed using a web-based approach, and its functionality will be evaluated through usability testing and user acceptance testing. Because the information presented basically comes from input data (input), then before entering data you must check the data correctness of data so that the resulting information is appropriate. Prepare hardware and software support whose specifications can support this system well. Perform periodic data back-ups to anticipate undesirable events. This system cannot only be used for one place. It is hoped that this system can be used in all places or areas where the system is not yet computerized to save time and energy.

INTRODUCTION

With the development of technology in various aspects of life, business entrepreneurs must become increasingly creative in utilizing technology to grow their businesses (Nistrina & Righa, 2022). Information Technology is an essential part of life. As Information Technology continues to evolve (Wahyuni et al., 2021).it has significantly changed the way people interact or receive information (Andriansyah, 2020). Previously, people used conventional information systems such as paper-based systems, with newspapers being one example (Hermin et al., 2023). Nowadays, it has shifted to digital information systems, such as websites. A website can serve as a platform for various marketing and promotional efforts for a company or an individual who owns a business, such as presenting products, services, and company/agency information to customers online (Mawarni et al., 2022). One of the businesses currently growing and gaining popularity in the city of Palembang is the rental of suits and kebayas. This suit and kebaya rental business is a long-term enterprise. The changing times have made suits and kebayas more commonly used and sought after. The "Toko Kebaya Jas" is a business located in Palembang, precisely at Jl. Alamsyah Ratu Prawiranegara, Bukit Lama, Ilir Barat I District. This business operates in the fashion industry, specifically in renting suits and kebayas. The current rental system still uses a manual process, where prospective renters must visit the "Toko Kebaya Jas Palembang" directly.

The main issue faced by prospective renters is the difficulty in finding information about renting suits and kebayas. This is because "Toko Kebaya Jas Palembang" does not yet have a website-based facility. Therefore, the author is taking the initiative to design a suit and kebaya rental information system in the city of Palembang, with a case study on the "Toko Sewa Jas Kebaya Palembang." The rental information system facilitates data recording, reporting, and rental data. This is an important part of the rental process, as customers can rent directly or through an online application(Erwinsah, 2019).

LITERATURE REVIEW

Information Systems

A group of parts that gather, process, store, and output all the data required for business operations and applications is called an information system. This process is carried out via databases, software, and even related manual procedures (Ii & Teori, 2015). An information system is a group of interrelated elements, including people, processes, databases, and tools, that are used to execute tasks, store information, and generate information in order to accomplish a purpose (Ridho, 2021).

Rental

Rent is an agreement in which one party hands over something to another party to enjoy it for a specific amount of time on the condition that the latter party will pay for it(Nistrina & Righa, 2022). A rental agreement is an agreement

in which one party gives ownership rights to certain goods to a second party to enjoy it for a specific amount of time, and the second party is responsible for paying for and returning the goods in accordance with the agreement(Erwinsah, 2019). Based on the definition above, leasing is an agreement between two parties for an agreed price within a certain period of time.

Website

Websites are one of the most widely used resources on the internet. Where the website provides a source of information data that can be accessed by everyone via the internet (Ii, 2017). It can be concluded that a website is a collection of information available on the internet and can be accessed via a browser (Word Health Organization et al., 2013).

Previous Research

Writers should do research beforehand. This research is not only used as a reference but also used to compare it with previous research :

Table 1. Previous Research

No	Researcher	Research Title	Research result
1.	TriWahyuni, Indriyanti,Erni Ermawati, Haerul Fatah, Nurul Ichsan	Create and implement a system for Nita Wedding Organizer to rent clothing and decorations online.	To make rental information management easier, the author created a web-based clothing and decoration rental website[2]. They plan to use the waterfall method in PHP programming, using the CodeIgniter and Bootstrap frameworks.
2.	R.Erwinsah,Annisa Paramitha Fadilah	Web-Based Children's Costume Rental Information System at Syakira Studio Bandung	Researchers offer an online rental feature to make it easier for customers to carry out the rental process without having to go to the location, and documents are stored automatically in an existing database, which makes it easier for managers to search for data and documents.

Previous research is the researcher's effort to look for comparisons and then to find new inspiration for further research. In addition, previous studies help research position the research and show the originality of the research.

METHOD

System Development Method

The waterfall motel is used by the author in this research as a system development model. The waterfall method is a systematic approach model that runs according to the existing stages (Apriansyah et al., 2022). Often, the waterfall SDLC model is referred to as a linear sequential model or classic life flow (Wahyuni et al., 2021).
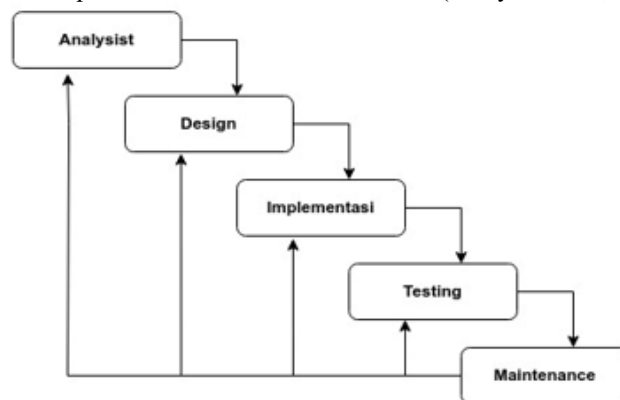

Figure 1. Waterfall Method

To understand the software according to user needs, the requirements gathering process is carried out carefully. Software design is a process consisting of various steps that focus on the design of a software program, which includes coding procedures, interface architecture, and data structures. At this stage, the design must be converted into software code (Rizki Firmansyah.S.Kom, 2010). Once completed, the computer program will function according to the design created in the previous design stage. Software testing focuses on logical and functional aspects to ensure that each software component has been tested. This is done to reduce errors and guarantee expected results. Maintenance or support stage, which can continue the development process starting from specification analysis(Vivi Kumalasari S., S.E,

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M.Si, 2008).

RESULT

Overview of the running system

A running system procedure is a structured series of activities in the implementation of a process, a smooth system for each data processing, or a form of activity if supported by good and appropriate procedures. Besides that Current system analysis is an activity carried out to decompose existing information systems into computer components. The goal is to identify and evaluate problems that arise from the system. Analysis of the running system is carried out by analyzing the objects needed for the system to be designed,Describes the flows of information from related parts Evaluate the current system.
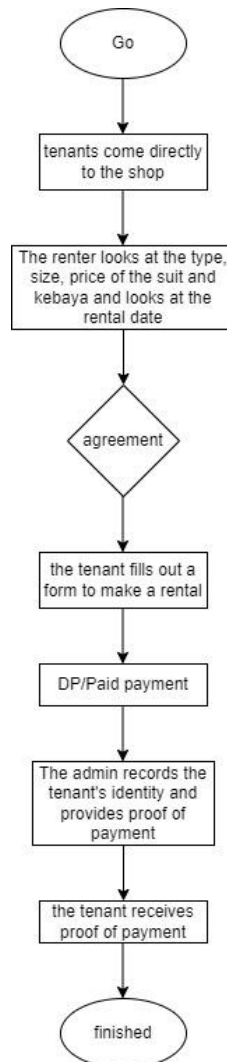
Figure 2. Running System

Figure 2 explains the process of renting jackets and kebayas manually, where the process is that the renter comes directly to the Palembang Jas Kebaya Shop.

An overview of the system currently running is:
1. Overview of the rental system at the Palembang Jas Kebaya Shop.
2. There are 2 actors who carry out activities in the system, including the Renter and the Admin.
3. Data processing can only be carried out by the admin.
4. Transactions can only be done directly

Description of the proposed system

The proposed system is a system designed based on functional requirements and preparation for implementation. System design can take the form of: Drawing, designing, sketching, arranging and combining separate elements into a single unit, configuring hardware and software components. System design can be done to improve existing systems so

that they can work better and more efficiently. The system design process can take the form of: Input design, output design, file design.
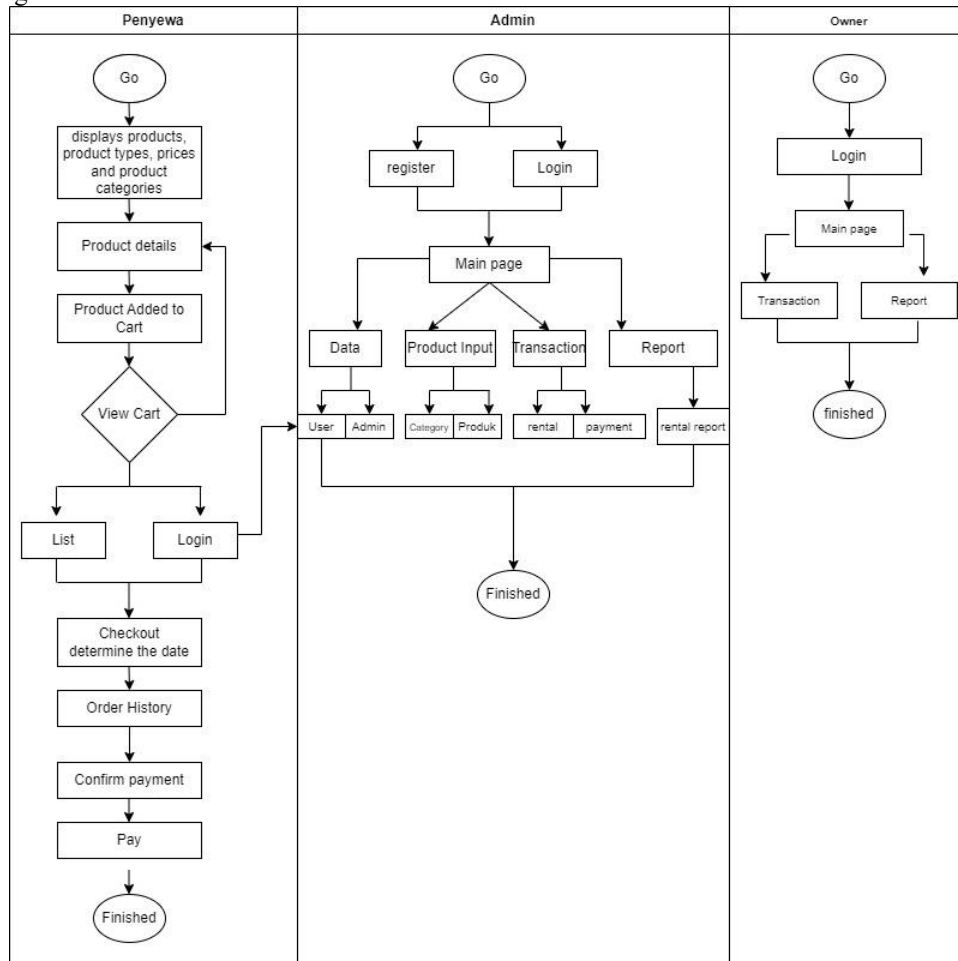

Figure 3. Proposed system

The description of the proposed system is a description of a system where renters can access online rental websites. Renters can see the products available on the Kebaya Jas Palembang shop website, apart from that renters can also see the details of each product, then if the renter wants to rent the product they will be directed to the basket page, if they want to see the products in the basket then the renter is directed to Log in first, if you already have a user account, log in immediately, if the user doesn't have an account, then the user must register.

System Design
    a.   Use case Diagram
    A use case diagram is an illustration or representation of the interactions that occur between the system and its environment. Use case is a software requirements discovery technique that was first introduced in the object-based approach method developed by Jacobson and friends in the 1990s.
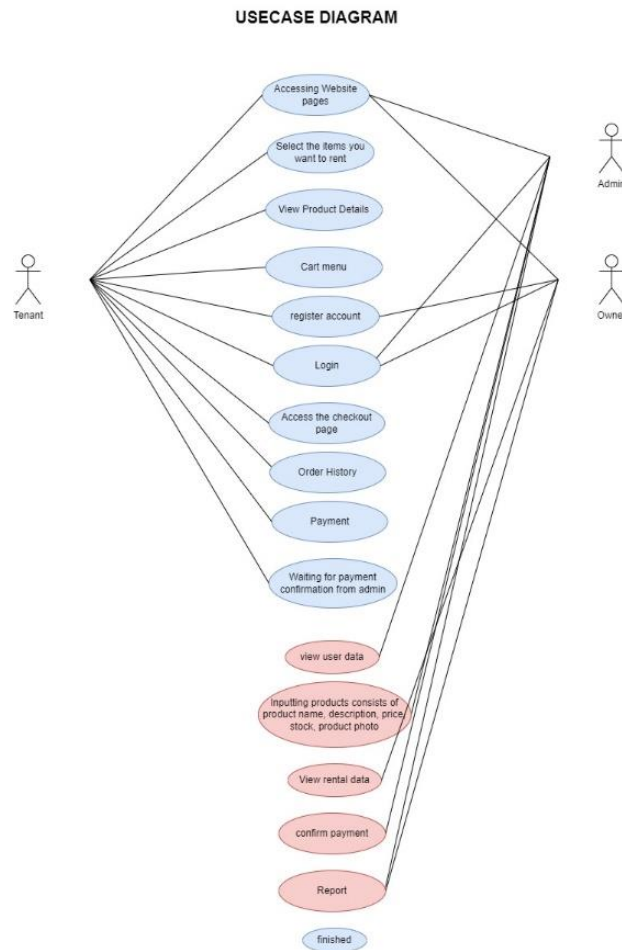
Figur 4. Use case Diagram

Figure 4 below explains the use case diagram in the system design that the author created. There are 3 actors who can access the system determined by account level, including:

1. Renters have access to login, register, select products, order product rentals, determine the rental date and purchase date and make payments.
2. Admin has access to log in, register, manage user data, manage order data, manage product and transaction data.
3. Owners have access to log in, receive order data and receive transaction reports.
4. This use case diagram explains the access that can be carried out by users, admins and owners as follows

   b. Activity diagram

Figure 5 below explains the flow of the rental Activity Diagram which is designed when the tenant opens the website, the main page will appear, the main page displays products, product categories. When the renter wants to see product details, the system will display a product detail page based on the selected product. After seeing the product details, the renter wants to continue to the basket page, but gets a notification to be directed to register/login first. Login using email and password (Utomo et al., 2019). After logging in, users can proceed to the checkout page to input the rental date and return date. Lastly, the user is directed to the payment history page, on the payment history page the user is directed to make a payment transaction (Wahyudin & Rahayu, 2020).

Figure 6 below explains the flow of the Admin Activity Diagram which is designed when the admin accesses the website page, he will be directed to the login page, To access the main admin page, the administrator must input their login and password, after accessing the login page, the system displays the main page. There are 4 menus on the main page consisting of the data menu, product input menu, transaction menu and report menu. Admin can choose one from the menu.
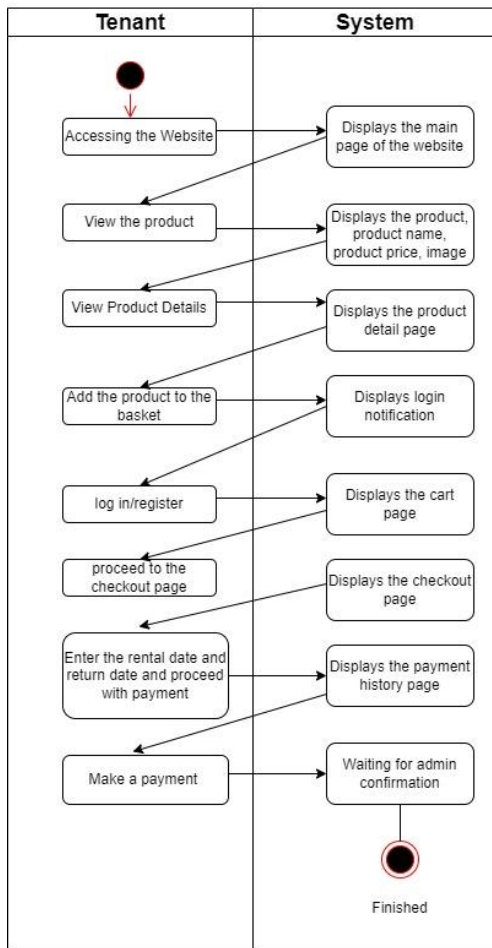
Figure 5. Tenant activity diagram
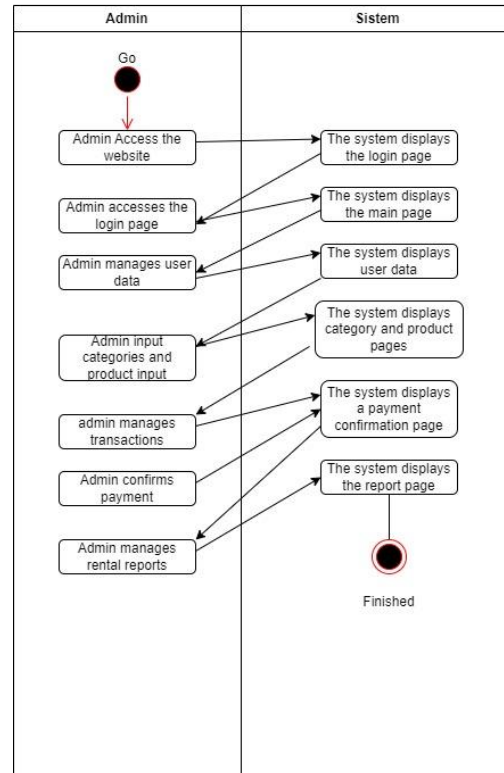

Figure 6. Admin activity diagram

c. Activity Diagram Owner

In the figur 7 below is the Owner Activity Diagram flow which is designed when the owner accesses the website page. The owner is directed to the login page and enters the username and password. After logging in, the admin is directed to the main page, which consists of 2 menus, including the transaction menu and rental reports. Owners can choose one of the menus.
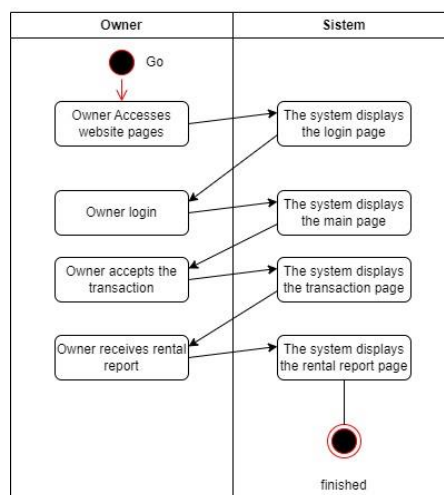

Figure 7. Activity diagram owner

d. Class Diagram
Figure 8 is a Class Diagram Design for Website-based Suit and Kebaya Rental in Palembang City. Where, programmers can understand database design when building a suit and kebaya rental website in Palembang City.
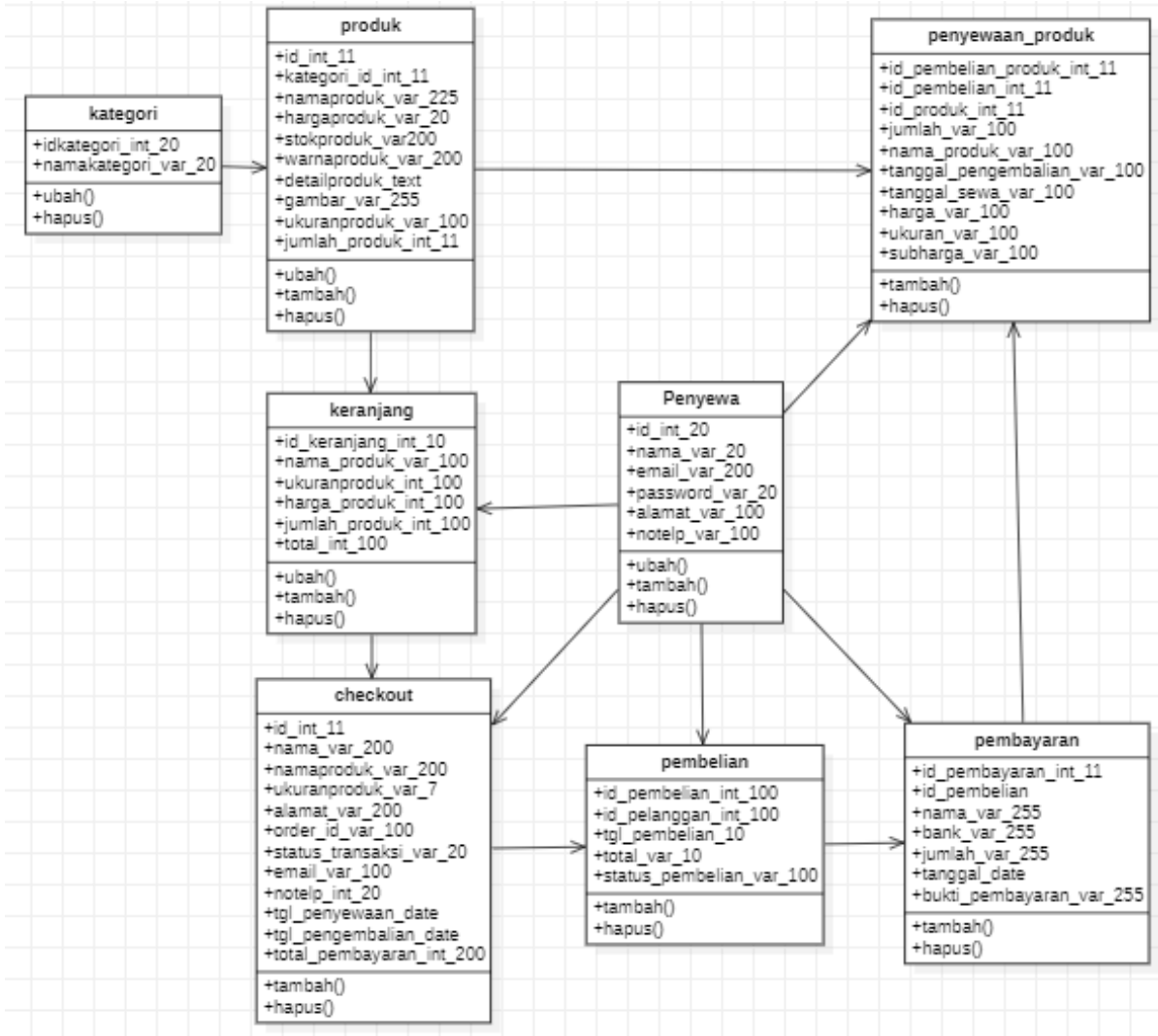

Figure 8. Class diagram

DISCUSSION

Desain Interface

a. Home Page
The main page is the user interface page or the first page on the website.
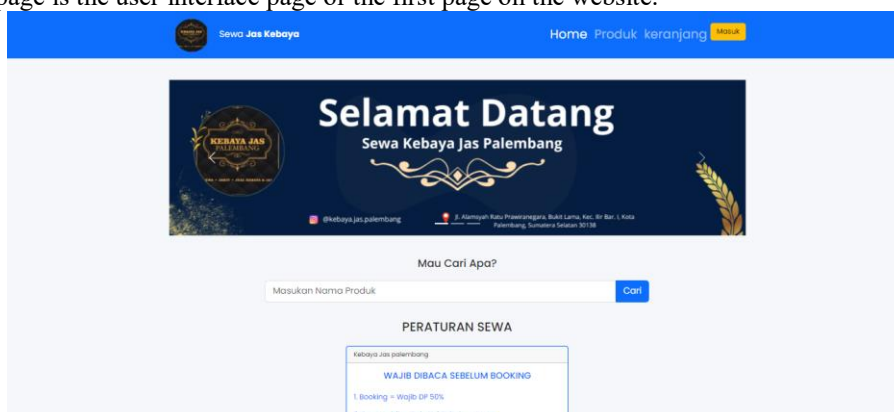

Figure 9. Main page of the website

This page has 4 useful menus, namely the home page, products, basket and login.

b. Product Page

The product page is the core page of the website, because on this page there are several items that are used for rent by customers.

Figure 10. Product Page

This page functions to display products available on the suit and kebaya rental website.
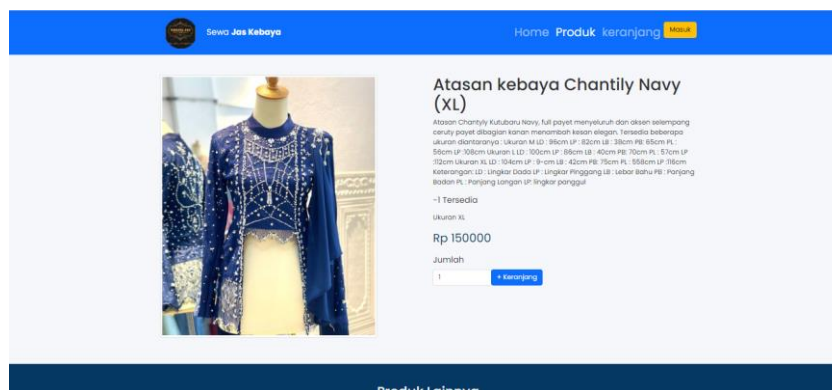
c. Product Details Page

Figure 11. Product Details Page

This page functions to display details of each product and displays information on stock quantity, price, size.

d. User Login Page

The login page is the initial page that users must access to enter the system or website. This page functions as an entry point for users to access the computer system and manage the identification process.
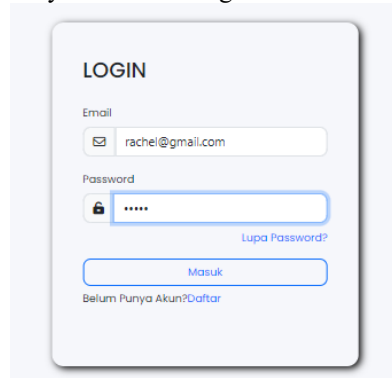

Figure 12. Login Page

The user login page functions as a login form that has been filled in by the previous rental.

e. Cart Page

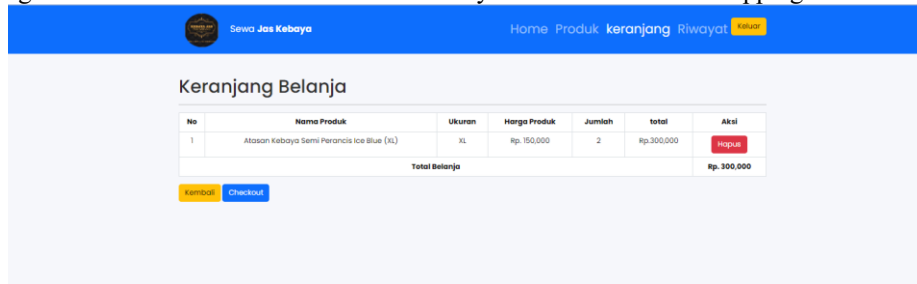The cart page is where customers review the items they have added to their shopping cart before checking out

Figure 13. Cart

This page functions to enter the product you want to rent into the basket page before making payment.

f. Checkout Page

A checkout page is a page on an e-commerce website or application that is used by buyers to complete the purchasing process
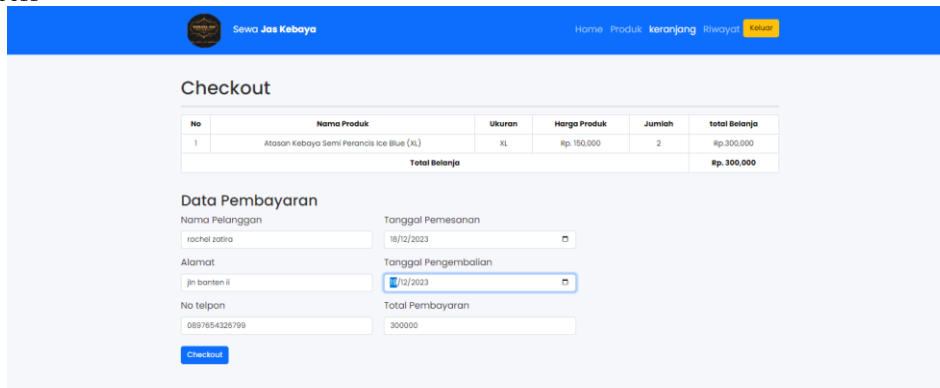

Figure 14. Checkout

After adding the product to the basket, the user will be directed to the checkout page to continue payment

g. Payment Page

Payment pages are secure portals that allow businesses to accept online payments. This page is also called a managed payments page (HPP) or managed payment gateway.
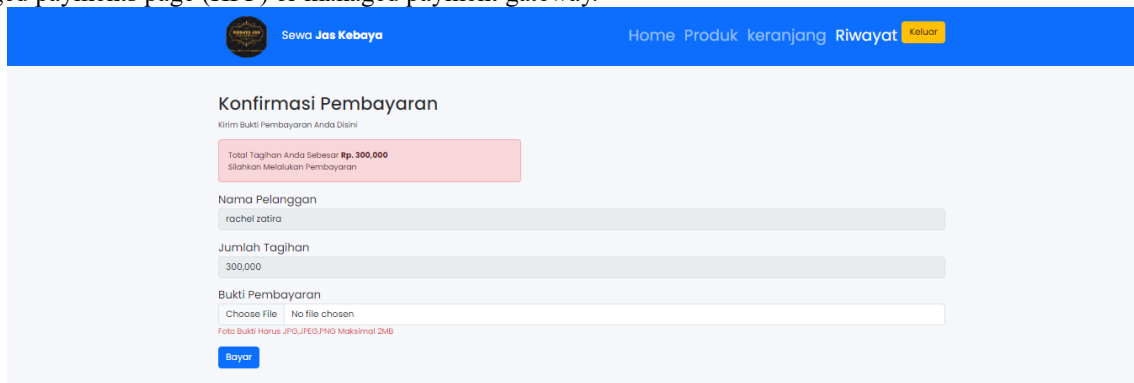

Figure 15. Payment

The payment page functions as a place for payment transactions for prospective tenants using manual transfers, namely inter-bank transfers.
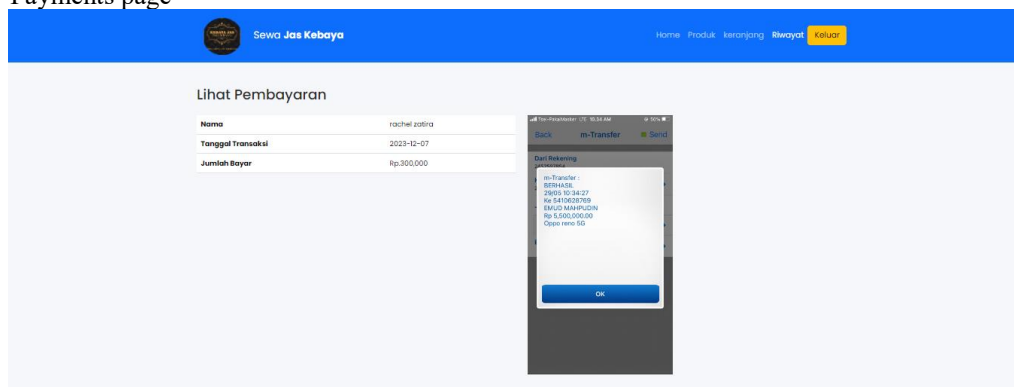
h. View Payments page

Figure 16. View Payment Page

This page functions as proof of payment consisting of the tenant's name, total transaction and proof of payment.

CONCLUSION

By paying attention to the discussion and description of research findings in the previous chapters, it can be concluded that this system makes it easier for renters to order the jackets and kebayas they need, thereby saving more time and energy. This system can also ensure that payments to renters are more targeted and make transactions easier. . as well as making it easier for customers to find out information related to renting suits and kebayas in the city of Palembang.

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