

WEBSITE MAKING ONLINE KOI FISH SHOP

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ABSTRACT

During the COVID-19 pandemic, this triggers the use of technology that is carried out online. Currently, the Koi fish shop is still using the conventional sales system, where customers come directly to the shop so that they can be served as well as the buying and selling process, where buyers come directly to see the fish they want to buy or their accessories. Customers who are interested in the accessories and fish offered at the Koi Shop, the transaction process directly occurs at the store. Based on these needs, a koi fish online shop website was created. The koi fish shop website uses the PHP programming language and MySQL as the database. Making this web refers to the SDLC (System Development Life Cycle) stage, including the planning, analysis, design, implementation and testing phases. Customers can register an account in advance to be able to place orders and make payments. Product orders can be accessed on various platforms, namely computers and smartphones. With the existence of this website, it is hoped that the koi fish shop can grow more in terms of sales and attract customers. Sourced from the browser and device test table, the application runs well and the display corresponds to the original on the Google Chrome and Mozilla Firefox browsers, while Microsoft Edge takes time to display properly and the application runs well, neatly and in accordance with the original on the smartphone device installed on the device test.

Keywords: Koi Fish, Online, MYSQL, PHP, Website

INTRODUCTION

During the COVID-19 pandemic, this leads to the use of technology that runs online. Almost all activities of a person are done online. Currently, the Koi Fish Shop still uses a conventional sales system, where customers come directly to the store to be served, as well as the buying and selling process, where buyers come directly to see the fish they want to buy or their accessories. Customers interested in the accessories and fish offered in the Koi Shop, the transaction process takes place directly in the store. The researcher has made a compilation of this case called Making a Koi Fish Online Store Website. This website allows you to share information with koi fish enthusiasts. Through this online store, koi fish enthusiasts can get information about different types of koi fish. Through this website, koi fish enthusiasts can buy koi fish online to keep or resell.

This study uses previous research that is very useful as a scientific reference by Ramadhan, Matondang & Yulnelly in 2020, namely the design of a web-based sales information system for freshwater fish (Case Study: N'Cex Aquatic). The problem in this study is that freshwater fish sales are not automated but rather have used automation in the form of Microsoft Office because the owner does this work himself, so time is limited in performing data processing for the owner to use it doesn't anymore, so a fish sales application was created based on websites. The advantage of this research is that online payment transactions are already taking place.

RESEARCH METHODS

The data collection in this study was carried out by collecting data on koi fish in the form of images and information from books, magazines and the Internet.

Basil (2012) describes the Waterfall Model which consists of five phases that must be passed through successively in order to develop a software solution. The use of SDLC will be more optimal if it is equipped with different system development techniques (Mulyani, 2009). The methodology used in the creation of this website uses SDLC (System Development Life Cycle) which consists of planning, analysis, design, implementation and maintenance. In the design phase, the creation of this website creates a website interface design that will be created using UML (Unified Modeling Language) by creating use case diagrams for users and administrators, as well as creating activity diagrams and a navigation structure that is used to appearance of the created website. Then do the coding with PHP software and also MySql as database. Then do a test with a smartphone and test the browser whether the application runs properly.

RESULTS AND DISCUSSION

In the phase of building a Koi Fish Online Store website, it is carried out in several stages namely analysis, design, implementation and maintenance.

Analysis

A good information system is not only intended to store data electronically, but should support the analysis process required by management so that accurate, reliable, current and easily accessible information can be obtained (Hatmoko, 2012). At this stage, the creation of a Koi Fish Online Store website that will be built has functions, which is to generate information about product categories that will be sold along with the accessories. Orders from users can be made online with the payment method via bank transfer and it can also be done via payment on site (cash on delivery). Users who have ordered and paid for their purchased products will receive a payment confirmation. Users can view information about the delivery status of the order.

Navigation Structure Design

According to Ardiansyah (2016), the navigation structure can be interpreted as the flow of a program that describes the design of the relationship between different areas to facilitate the process of organizing all website elements. There are two navigation structures in this web-based application that will be used, namely the user navigation structure in the image and the admin navigation structure.

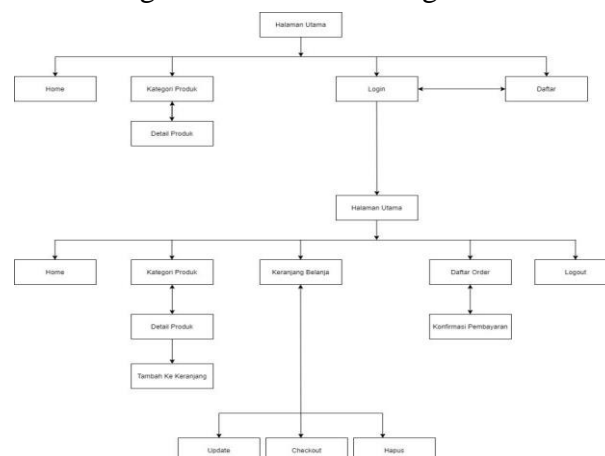


Figure 1. User Navigation Structure.

The user navigation structure in Figure 1 shows that customers can access pages such as user pages, shopping carts, product details, product categories, and order lists.

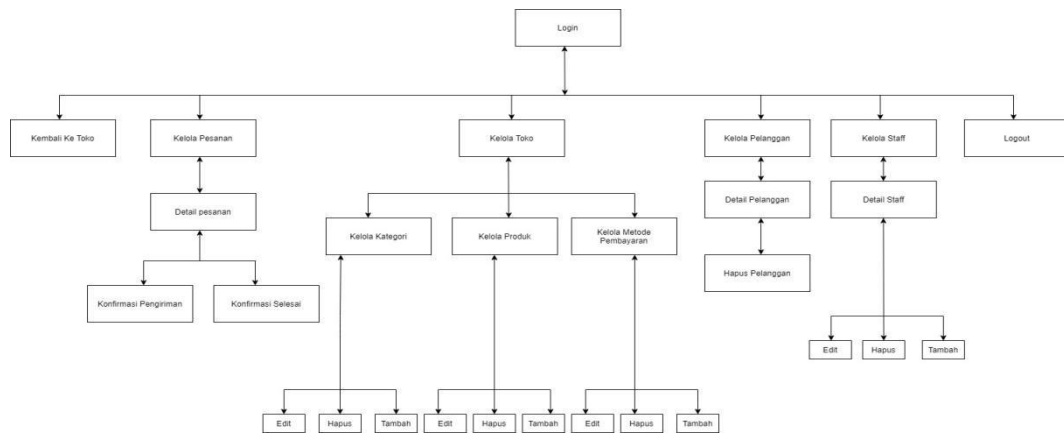


Figure 2 Admin Navigation Structure

The admin navigation tree in Figure 2 is the person who is responsible for managing the created website. The administrator certainly has access to every page on the website view.

UML (Unified Modeling Language) Design

Unified Modeling Language (UML) is a standard language for creating a model for connecting the two worlds and for creating a text. Dalam perancangan website ini menggunakan 3 model diagram UML, yaitu Use Case Diagram, Activity Diagram

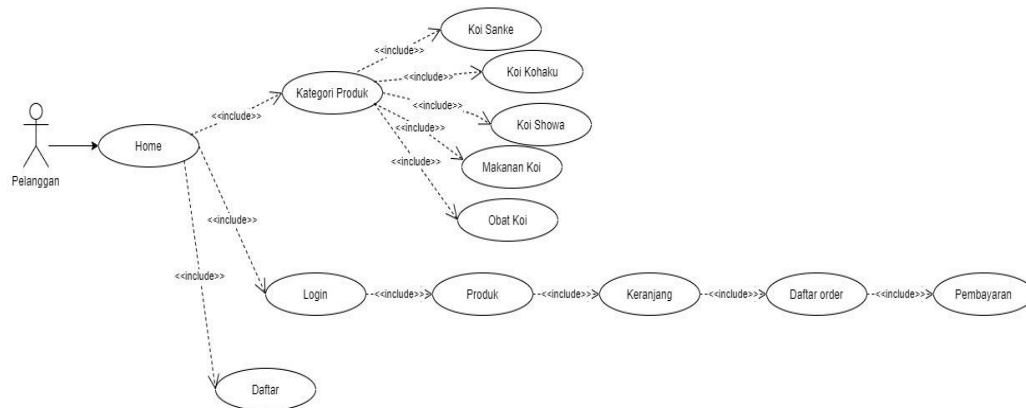


Figure 3 Usecase Diagram User

In figure 3 there is an actor, namely the user. Users can view information on web pages and can also transact directly on the website.

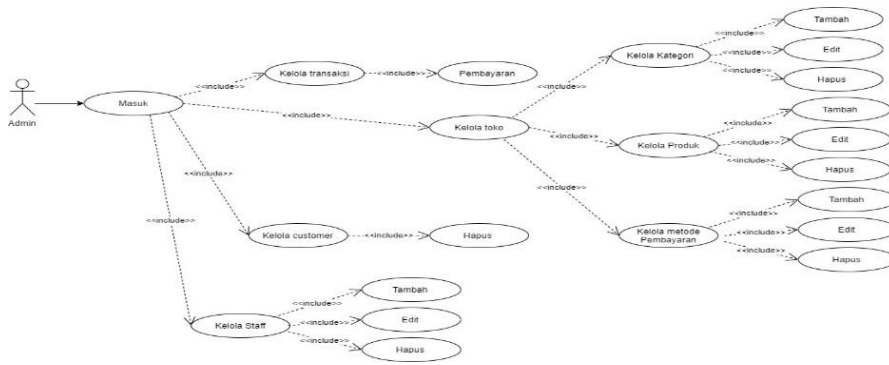


Figure 4 Usecase Diagram Admin

In figure 4 the actor admin is admin. Admin can view customer purchase data, can also view purchase reports and can view customer lists.

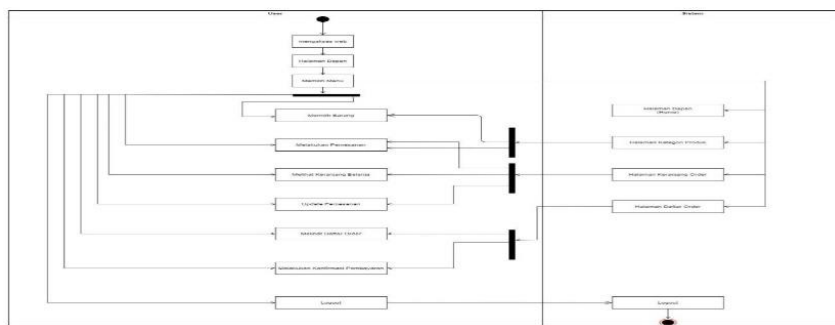


Figure 5 User Activity Diagram

In figure 5, customers accessing the internet show the home page, customers can choose the main menu on the home page, namely the home menu, the categories, the order basket and the order list.

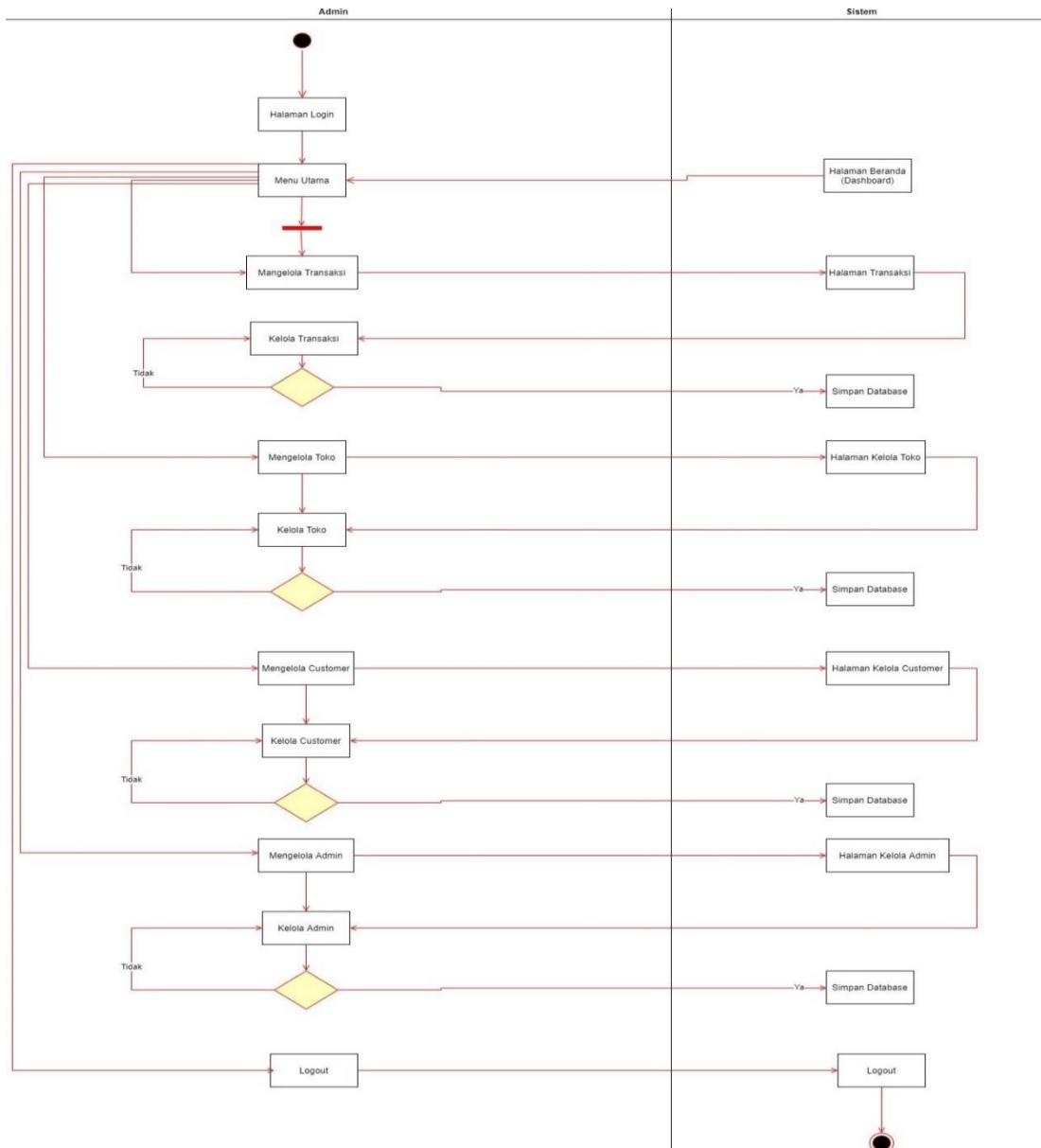


Figure 6 Admin Activity Diagram

In Figure 6, an administrator must first login to enter the administrator page, the administrator page contains the main menu, namely transaction management menu, store management, customer management, staff management and logout.

Database Design

When creating a koi fish shop website, a database design is used to store incoming data that needs to be managed so that it becomes information.

Table 1 Login table

Field Name	Data Type	Size	Description
userid	Integer	11	AUTO_INCREMENT PRIMARY KEY
full name	Varchar	50	
email	Varchar	50	
password	Varchar	15	
phone number	Varchar	15	
address	Varchar	50	
join date	Timestamp		
role	Varchar	50	
lastlogin	Timestamp		

In Table 1, customers are used for the registration process to access the Koi Fish website.

Table 2 Table Product

Field Name	Data Type	Size	Description
idproduct	Integer	11	AUTO_INCREMENT PRIMARY KEY
idcategory	Integer	11	
product name	Varchar	30	
picture	Varchar	100	
description	Varchar	200	
rate	Integer	11	
status	Varchar	25	
pricebefore	Integer	11	
priceafter	Integer	11	
date made	Timestamp		

Table 2 is used to see the types of koi fish that are sold.

Table 3 Confirmation table

Field Name	Data Type	Size	Description
confirmation id	Integer	11	AUTO_INCREMENT PRIMARY KEY
order id	Varchar	15	
userid	Integer	11	
payment	Varchar	10	
account name	Varchar	25	
picture	Varchar	100	
pay date	Date		
date of submit	Timestamp		

Table 3 is used to confirm whether the customer is purchasing koi fish.

Table 4 Payment table

Field Name	Data Type	Size	Description
idmethod	Integer	11	AUTO_INCREMENT PRIMARY KEY
method	Varchar	25	
account number	Varchar	25	
logo	Text		
an	Varchar	20	

Table 4 is used for customers who have made payments.

Webpage Display Design

The page design section is a section for sketching images of each page on the website in stages.

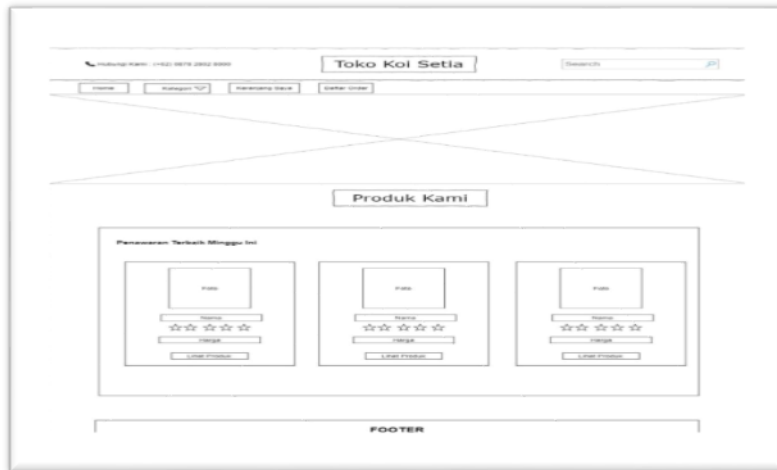


Figure 7 Home Page Design

Figure 7 consists of a header with a login button to register an account, a search platform to search for goods, an application name and a login button to login.

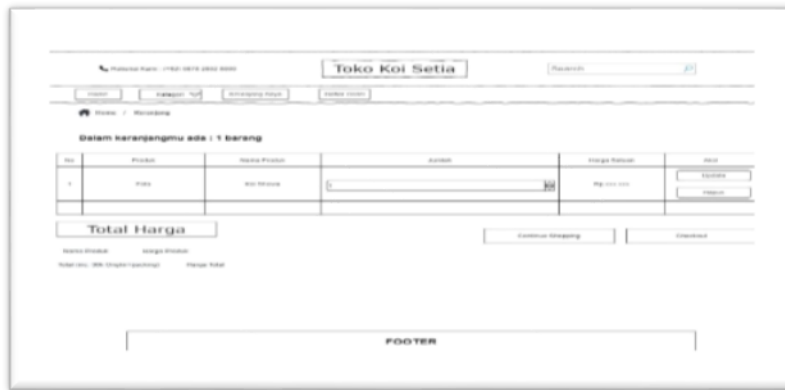


Figure 8 Cart Page Design

In Figure 8 this will show a page with a menu to see which products will be ordered and can also replace or delete items that have been selected.



Figure 9 Checkout Page Design

Figure 9 shows a page with a menu to see which products are being paid for and can also show the price to be paid along with the payment code.



Figure 10 Admin Page Design

Figure 10 shows the first view after the admin enters the admin homepage consisting of manage orders, manage stores, manage customers, manage staff and also logout.

Implementation

The home page is the page first opened when browsing the Koi Fish Shop website which contains the main menu namely home, product category, product basket, order list and there are also buttons to login and register.

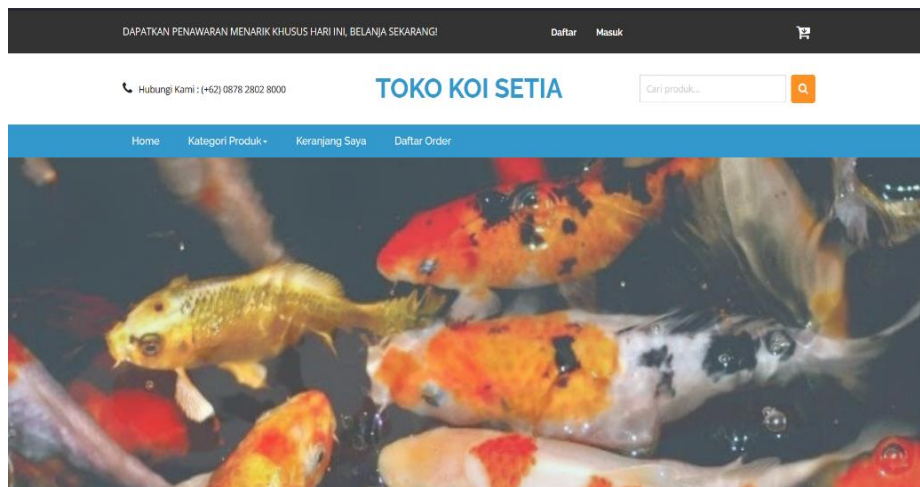


Figure 11 Home Page Display

In Figure 11, users are accessing this website. The first screen that will be seen is the home page screen, within the home page screen contains images of koi fish that will spoil the customer's eyes.

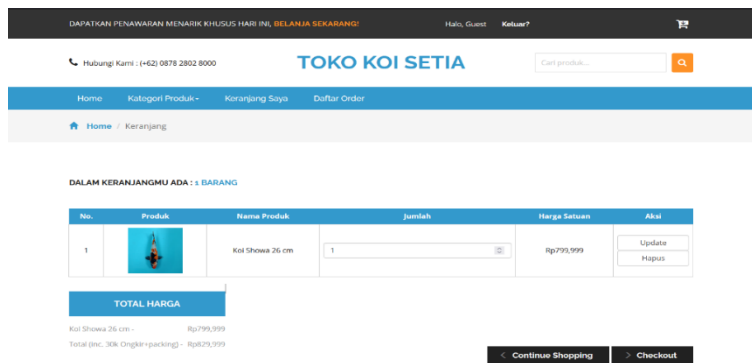


Figure 11 Shopping cart page display

In Figure 11, this page shows the details of which products will be ordered and also the details of the total price of the product.

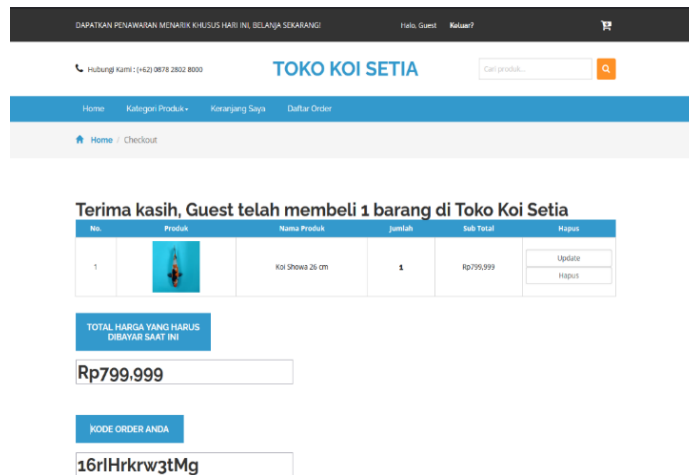


Figure 12 Checkout Page View

In Figure 12, this page displays a page with the order code and a predetermined price that is then redirected to the I Aggregate and Checkout button and directly to the confirmation page.

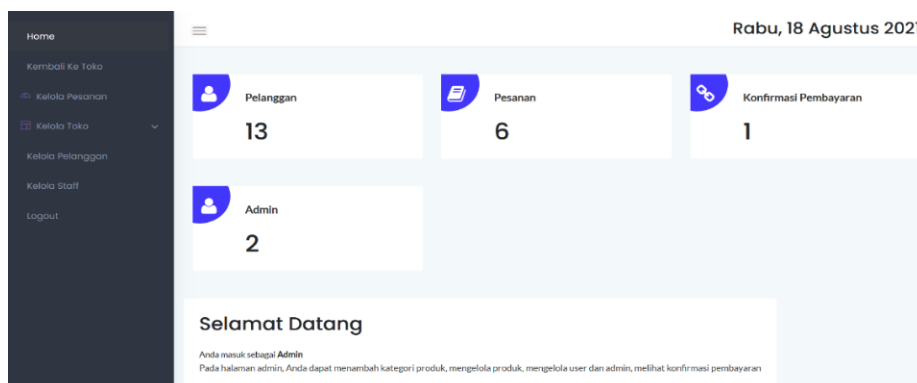


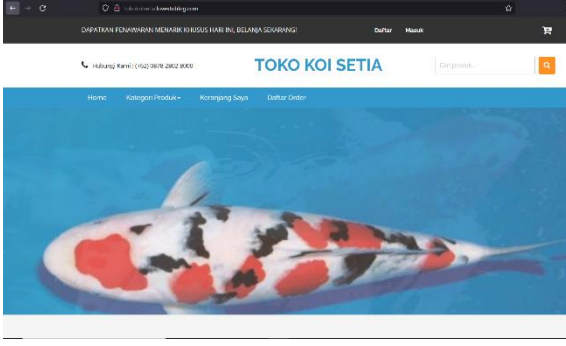
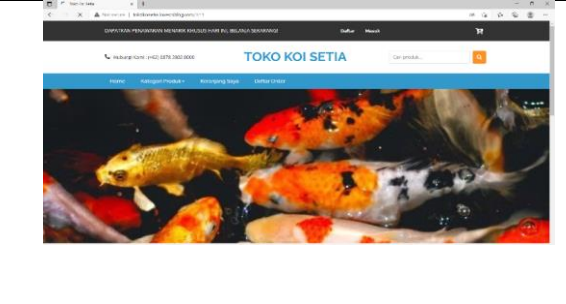
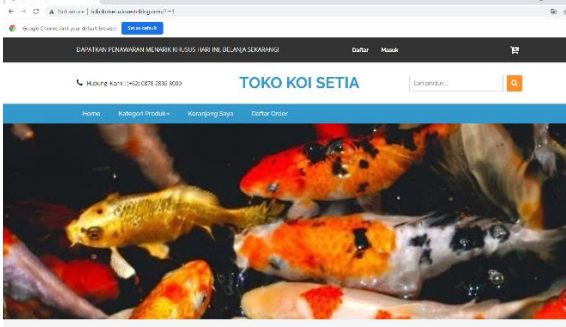
Figure 13 Admin Page Display

Figure 13 shows the first view after the administrator enters the administrator's home page. In the sidebar, there are various pages such as manage orders, manage stores, manage customers, manage staff and also logout.

Testing



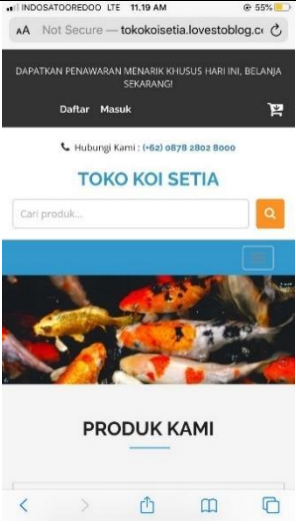
This website has been tested with various browser tests in Table 5 and smartphone devices in Table 6.

Table 5 Browser Trial

No	Browser Type	Display	Description
1.	Mozilla Firefox		Rendering in accordance with the original appearance.
2.	Microsoft edge		The display corresponds to the original appearance, but at the time of loading for the first time, it is messy
3.	Google Chrome		Rendering in accordance with the original appearance.

In table 5 it can be concluded that the application runs well and the display corresponds to the original on the Google Chrome and Mozilla Firefox browsers. However, there is a difference if the application opens with the Microsoft Edge browser on first load, the page name section shifts to the middle, the page title does not show the color and there are messy texts and random photos. but neat when you're done loading.

Table 6 Smartphone Device Test

No	Device Type	Display	Description
1.	Samsung Galaxy A50		Rendering in accordance with the original appearance.
2.	Iphone 7		Rendering in accordance with the original appearance..
3.	Iphone 6 S+		Rendering in accordance with the original appearance.

In Table 6, the representation of the three types of devices remains neat and in accordance with the original.

CONCLUSIONS AND SUGGESTION

Conclusion

Based on the results of the tests performed, it can be concluded that this website has been successfully created and works well on various smartphones and web browsers so that it can provide services to consumers when making online purchases.

Suggestion

Suggestions that can be made regarding creating this website for further development by adding a chat function that will make it easier for potential customers to increase customer satisfaction for later website development.

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