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DESIGN AND DEVELOPMENT OF WEB-BASED OLD MOTORCYCLE E-MUSEUM USING PHP AND MYSQL

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ABSTRACT

In modern times like today, the development of the internet is extremely fast. Now the internet, with a resource called the Web, has been widely used by various organizations to support the smooth running of businesses, which at first only handled the delivery of information, but now also the organizers of their own business. Therefore, in this paper, we will explain the process of developing a web-based information system about old motorcycles which contains the history of old motorcycles, types of old motorcycles, as well as information on the specifications of old motorcycles, and the year of manufacture. This information system will make it easier for old motorcycle hobbyists to find information. This Old Motorcycle Museum website uses web-based PHP and MySQL where users can easily access the application with computers and smartphones anywhere provided that they are connected to the Internet network. The design procedure for the proposed Web-based Old Motorcycle E-Museum will be made using Use case diagrams, Sequence diagrams, and Activity diagrams because these three UML notations represent a simple and can be used as material in evaluating an effective system. Based on this series of manufacturing processes, the old motorcycle e-museum website has facilities such as news info about various old motorcycles. With this system, it can help every user to make it easier to find information about old motorbikes without having to search for it with difficulty. The facilities in this application can attract users to visit this website.

Keywords: information Systems, Web, PHP, MySQL, E-Museum, Old Motorcycle

1. INTRODUCTION.

In modern times like today, the development of the internet is extremely fast and very much different from the early days of its presence. Now the internet, with a resource called the Web, has been widely used by various organizations to support the smooth running of businesses, which at first only handled the delivery of information, but now also the

organizers of their own business. The fast web is very popular among internet users, because of the ease and speed provided to Internet users to search and search for information.

A hobby is a reaction activity that is carried out in free time to calm one's mind with the aim of fulfilling desires and getting pleasure. One example of a hobby is collecting old motorcycles that can cost hundreds of millions of rupiah. In general, an old motorbike has an old engine and body, everything old that an old motorbike has is an attraction that is quite high value. Seeing the phenomenon of people's love for old motorcycles, various old motorcycle clubs were founded. They are club members gathered to share information regarding their favorite thing, namely old motorbikes. The information discussed, for example, was about a place to service motorbikes, where to buy spare parts at low prices, or also transactions between fans of old motorbikes that took place at the club.

By looking at the description above, the author is interested in building a web-based information system about old motorcycles that contains the history of old motorcycles, types of old motorcycles, as well as information on the specifications of old motorcycles, and the year of manufacture. This information system will make it easier for old motorcycle hobbyists to find information. And what will be discussed further by the author is that the author will do the Design and Making Web-Based Old Motorcycle E-Museum Using Php and MySQL.

2. LITERATURE REVIEW

2.1.Information Systems

Information systems do not always have to be connected to a computer. According to (Kadir, 2014), the information system includes several components such as humans, computers, information technology, and work procedures, which then process data into information that ultimately produces a goal.

If interpreted in words, the system can be said to be a group of elements that have integrity with each other to achieve goals. While information is data that is processed into a form that is more useful and more meaningful to those who receive it. Processed data or data that has meaning can also be interpreted as information. Information is data that has been processed in such a way that it can increase the knowledge of someone who uses it. Any system without any information cannot be used, because the system will crash and eventually stop. Information can be in the form of raw data, structured data, the capacity of an information channel, and so on.

Meanwhile, according to (Firman et al, 2016), an information system is an organized combination of people, hardware (hardware), software (software), communication networks, and

data resources that collect, transform, and disseminate information within an organization. In a computer-based environment, information systems use computer hardware and software, telecommunications networks, database management, and various other forms of information technology with the aim of converting data sources into various kinds of information needed by users.

2.2.PHP

PHP is the standard language used in the world of websites. According to (Peranginangin, 2006), PHP is a programming language in the form of a script that is placed on a web server. PHP can be interpreted as a Hypertext Preeprocessor. It is a language that can only run on the server whose results can be displayed on the client. The PHP interpreter in executing PHP code on the server side is called the server side.

Then, according to (Firman et al, 2016) PHP is one of the open source programming languages that is very suitable or devoted to web development and can be embedded in an HTML thesis. The PHP language can be said to describe several programming languages such as C, Java, and Perl and is easy to learn.

Simply put, the server will translate the program script, and then the results will be sent to the client who made the request.

2.3.MySQL

MySQL is a software or program used to create an open source database. MYSQL according to (Raharjo, 2011), is an RDBMS (database server) that manages databases quickly, accommodates very large amounts of data and can be accessed by many users. Meanwhile, according to (Kadir, 2008) MySQL is an open source software that is used to create a database.

MySQL is a multi-threaded and multi-user software, with around 6 million installations worldwide (Solichin, 2005). According to (Kustiyahningsih, 2011), MySQL is a database containing one or more tables. A table consists of a number of rows and each row contains one or more tables. A table consists of a number of rows and each row contains one or more tables.

MySQL is quite popular in existence. With various advantages it has, making this database software widely used by practitioners to build a project. There is an API (Application Programming) facility

Interface) which is owned by MySQL, allows various computer applications written in various programming languages to access the MySQL database.

3. RESEARCH METHODS

3.1. Method Website

The Old Motorcycle Museum website uses web-based PHP and MySQL where users can easily access applications with computers and or smartphones anywhere provided they are connected to the Internet network.

The design procedure for the proposed Web-based Old Motorcycle E-Museum will be made using Use case diagrams, Sequence diagrams, and Activity diagrams because these three UML notations represent simply and can be used as material in evaluating an effective system, so that the system can be seen without must know in detail the procedures that run.

Scenario Use case diagram that will be proposed by the author is an interaction or dialogue between the system and actors, including the exchange of messages and actions taken by the system. This use case scenario is initiated by an actor that may involve the role of another actor and must provide a minimum value to one actor. Use cases can have extensions that define specific actions in the interaction or other use cases may be inserted. Scenarios represent a sequence of messages and a single action. With the use case diagram scenario, this proposal is to facilitate the flow of the process proposed by the author in building a web-based old motorcycle information system.

3.2. Sequence Diagrams

In the Sequence diagram (sequence diagram) this proposal where the diagram will show or display the interactions between objects in the system that are arranged in a sequence or time series. The interaction between these objects includes users, displays, and so on in the form of messages.

Sequence Diagrams are used to describe scenarios or a series of steps that are carried out in response to an event to produce certain outputs. Sequence Diagram begins with what triggers the activity, what processes and changes occur internally and what outputs are produced.

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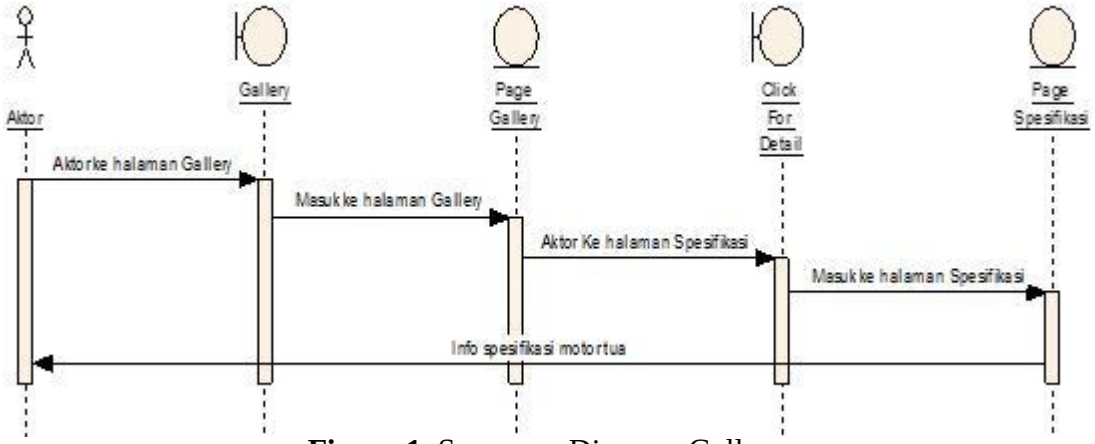

Figure 1. Sequence Diagram Gallery

The Gallery sequence diagram above illustrates the flow of actors entering the Gallery page with the first few stages of the actor going to the gallery page and viewing the content on the gallery page, then the actor can go to the specifications page and view information on the specifications of the old motorcycle that has been selected.

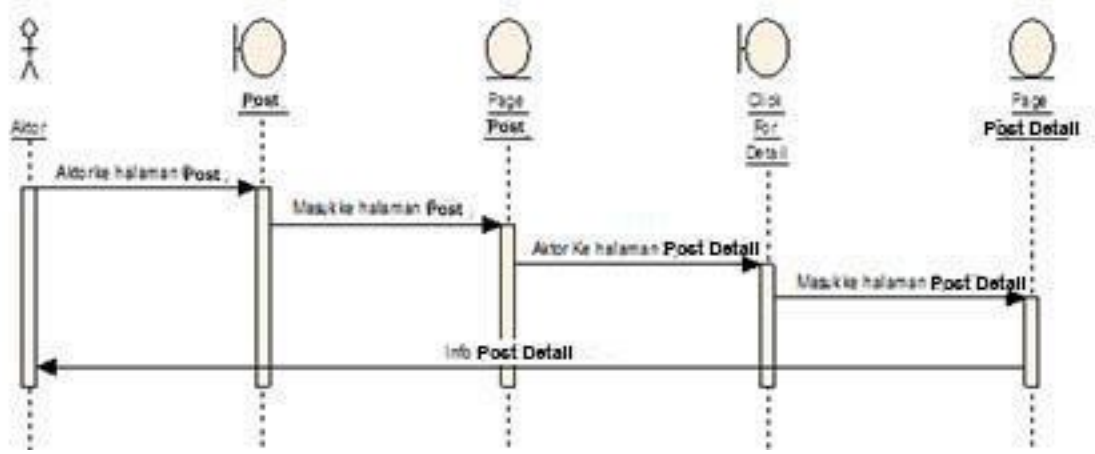

Figure 2. Sequence Diagram Post

The Post sequence diagram above illustrates the flow of actors entering the Post page with the first few stages of the actor going to the post page and seeing a recap of the post content about the old motorbike, then the actor can go to the post detail page and see more detailed information.

4. RESEARCH RESULTS AND DISCUSSION

In making a web-based Old Motor Website using PHP and MYSQL. And there is the hardware needed in making an old motorcycle website, namely a PC/Laptop with the following specifications:

a. Processor : Intel (R) Core(TM) i3 CPU @ 2.40GHz

b. Hard disk : 350 Gb

c. Memory : 2048MB RAM

d. Motherboard : Intel Corporation
e. VGA: Intel

The software used in the data processing which contains commands to run the computer system, the software used in making this Old Motor website are:

a. Microsoft Windows 7 Professional
b. Adobe Dreamweaver CS5
c. Adobe Photoshop CS6
d. XAMPP

After opening access the system, will enter the Home page. Figure 9 shows the Home view.

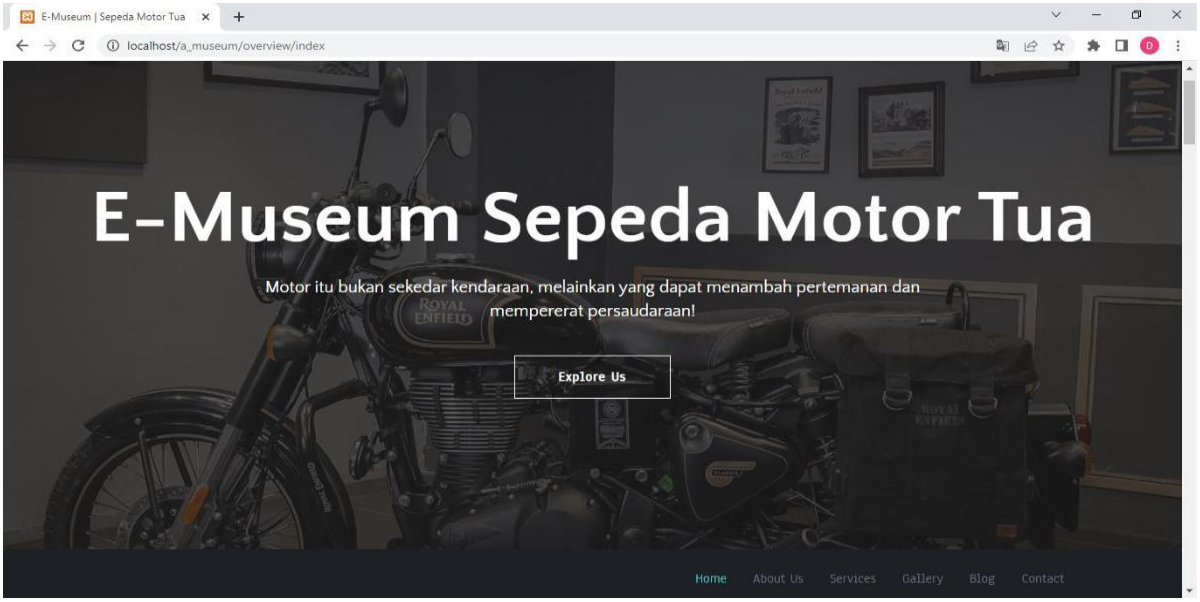

Figure 3. Home Page Display

On this page there is navigation that contains home, about us, services, gallery, blog, and contacts. Figure 10 shows the appearance of the about page.

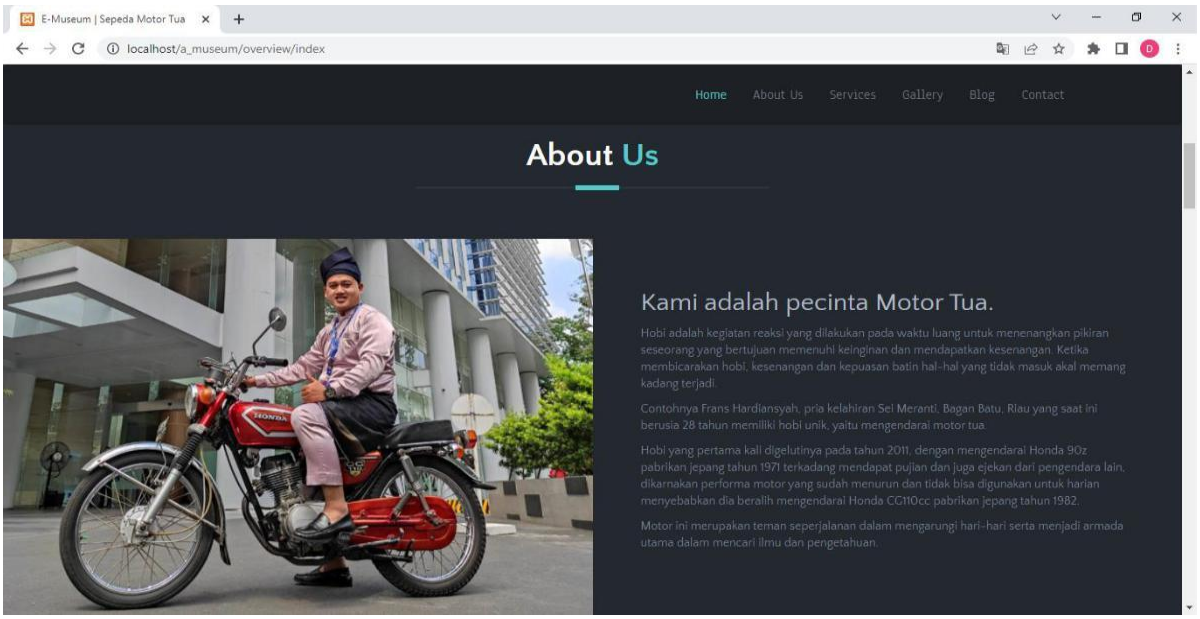

Figure 4. About . Page Display

The about page contains the author's story of his love for old motorcycles. Figure 11 shows the service page display.

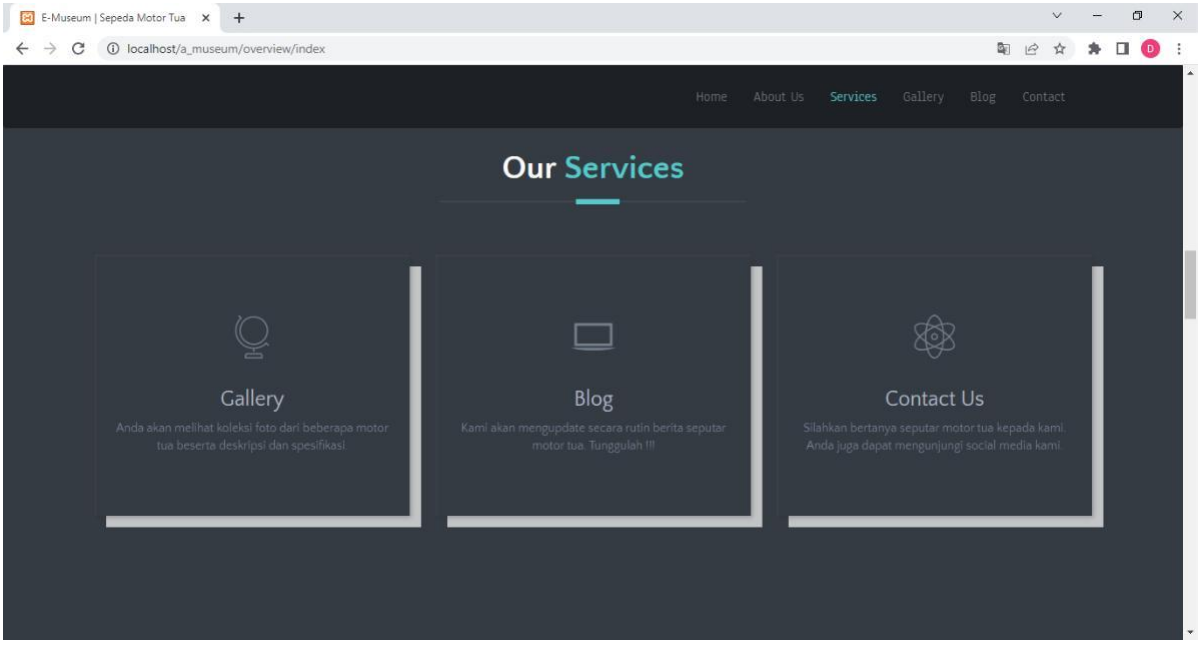

Figure 5. Service Page Display

On this page, three guides will be displayed that can be accessed on the website, namely gallery, blog and contact us. Figure 12 shows the Gallery page view.

From the results of research on the development and manufacture of a web-based Old Motorcycle E-Museum using PHP and MySQL, it can be seen that the system can function properly and is useful. Old motorbike lovers nowadays have quick access to information related to old motorbikes, be it specifications, or other important information just by accessing the website via their computer or smartphone.

5. CONCLUSION

The conclusion that can be drawn based on this series of manufacturing processes is that this old motorcycle e-museum website has facilities such as news info about various old motorcycles. With this system, it can help every user to make it easier to find information about old motorbikes without having to search for it with difficulty. The facilities in this application can be an attraction for users to visit this website.

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