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Information System of Carpentry

Merry Meiny Taju[1], Supriadi Sahibu[2], Agussalim[3]
[1]STMIK Handayani Makassar, [2]STMIK Handayani Makassar, [3]Universitas Pembagunan Nasional Veteran

Abstract:- Information Technology are very influential for a progress of a business. Various methods are used to promotes a business, one of them is by using an ecommerce website. commerce is a buying and selling activity carried out online through a website or web, the problem often faced is that the media promotion only uses banners, sales are still limited to offline, data storage and report printing are still in the form of records in the form of archives. The purpose of the research is to provide solutions to the problems that exist by designing an ecommerce-based sales information system. With the online carpentry information system we can do artisan information in each person's expertise very quickly and precisely in buildings and water, so from this online carpentry information system customers will be able to access the information needed. In general, this system brings together handyman service providers and handyman service users.

Keywords:- *Online Carpentry, Ecommerce, Information Systems.*

I. INTRODUCTION

A. Background

In entering the world of globalization, humans recognize increasingly advanced technology to make it easier carry out various activities in life. Advances in transportation, communication, health, education, and other fields are examples that humans increasingly need technology in their life. Today the world is recognized with a technology called the internet. With the internet everyone can communicate with other people who are in various parts of the world. Through the internet, everyone can get and deliver various information needed anytime and anywhere. Now with the presence of the internet, people can do business more easily.

With the online carpentry information system we can do artisan information in each person's expertise very quickly and precisely in buildings and water, so from this online carpentry information system customers will be able to access the information needed.

Information technology is very influential for the progress of a business. Various methods are used to promote the business owned, one of them is by using an *ecommerce website*. *E-commerce* is a trading activity that is carried out *online* through a *website* or web, a problem that is often faced is that the media promotion only uses banners, sales are still limited to offline, data storage and report printing are still in the form of records in the form of archives. The purpose of the research is to provide solutions to the problems that exist by designing an *ecommerce-based* sales information system. The results and conclusions of this study are that *ecommerce-based* sales *websites* can be used as promotional media, simplify the sales process that is done *online*, and can facilitate data processing and report printing which no longer requires records in archives.

B. Formulation of the problem

From the background above comes into a conclusion is that how to build a system information carpentry online web-based in City of Manado.

C. Purpose of research

This research was made with the intent and purpose of what will be made, which will achieve the desired results

- Designing a relevant carpentry information system is easier to access user needs to customers.
- Users can access their skills or expertise for customers in the field of information that is fast and accurate

D. Benefist of the Research

The benefit of this research is to be able to simplify, expand the online carpentry information system in the city of Manado

E. Scope of the Problem

Limitation problems in this study are as follows

- The system is run on a web browser
- The system provides handyman information from search results in the city of Manado
- This application is not mobile based

II. RESEARCH METHODS

A. Research Stages

There are seven stages in the research flow that will be carried out, namely the identification phase of the problem, the stage of problem formulation, the stage of goal setting, benefits, and problem boundaries, the stage of data collection, the stage of system development, and the stage of analysis of research results. Some stages have sub-stages. Figure 1 is a Research Flowchart of an Online Carpentry Information system.

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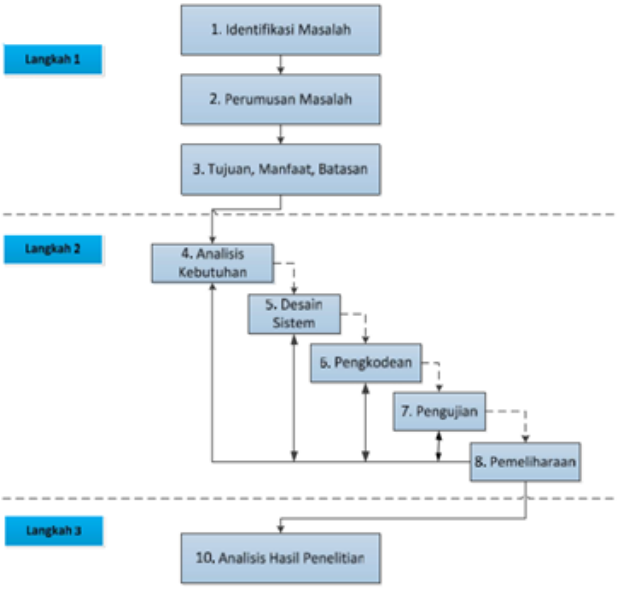

Fig 1:- Flowchart of research

The method used in this research is the waterfall model. explained that "the Waterfall Model is the simplest SDLC model, this model is only suitable for developing software with unchanging specifications". The SDLC approach with various works at one stage is completed first before the work continues to the next stage. The SDLC flow remains largely the same regardless of the number of stages.

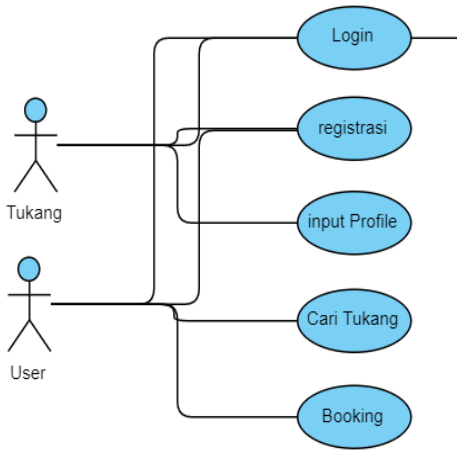

Fig 2:- use case diagram information system

B. Research Models

The model used in this study is the waterfall model

In the analysis and design of this online carpentry information system a database system design and interface design will be generated as needed

➢ *Software Requirements Analysis (Analysis)*

The process of gathering needs is done intensively to specify the software so that what kind of software can be understood by the user. The software requirements specification at this stage needs to be documented.

➢ *Design*

Software design is a multi-step process that focuses on the design of software programming, interface representation, and coding procedures. This stage translates software requirements, from the analysis stage of the design representation needs so that it can be implemented into a program at a later stage. Software design, from the stage of analysis needs design representation so that it can be implemented into a program at a later stage. The design of software produced at this stage also needs to be documented.

➢ *Making program code (Code)*

Designs must be translated into software programs. The result of this stage is a computer program in accordance with the design that was created at the design stage.

➢ *Testing*

Testing focuses on software in a logical and functional way and ensures that all parts have been tested. This is done to minimize errors (errors) and ensure the resulting output as desired**.**

C. The Device that is used

This research was done by using tools to support and support the implementation of the research, that is:

1. Hardware

Hardware that is used in development of the system with the specification such as:

a. Intel Core i3 Processor @2.4 Ghz
b. Ram 4GB
c. Hardisk 1 TB

2. Software

Software that is used such as:

a. Windows 10 Operation System
b. Sublime
c. Xampp
d. Star UML
e. Photoshop cc\

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III. RESULTS AND DISCUSSION

With the data from the labor department an application is prepared to makes it easier for job-seeker especially construction workers, or handyman, so that they can make it easier to get work. Likewise, it makes it easier for the public to publish work, such as for example the construction of house ceilings, installation of ceramics, manufacture of doors, electrical installations, pipe installations and so on. This application is a facilitator between job seekers and the people who need workers, in this case handyman, the process is very easy for the worker to register his personal data along with his portfolio or proof of work he has done. This application will rank all craftsmen according to their expertise and the number of jobs he has done and the rankings given by consumers or service users. Here are the results or views of the application.

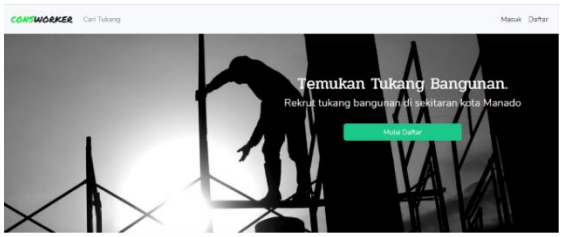

Fig 3:- View of Dashboard Application

Fig 3 shows that when the users access or open the website for the first time

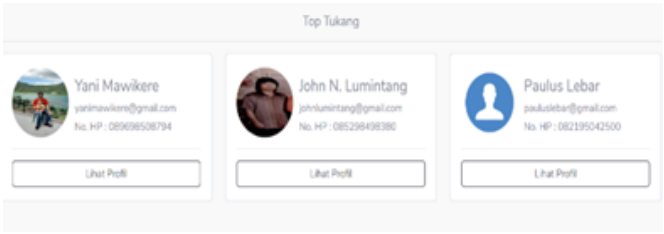

Fig 4:- Top Ranking and Handyman View.

Fig 4 explain that the Handyman that has already done many works then the Handyman's Profile will be shown in the front of the page and the total of number Handyman who will appear in the top ranking is 9 workers

Fig 5:- Application Footer

Fig 5 explain Application footer in brief about the concept from the website

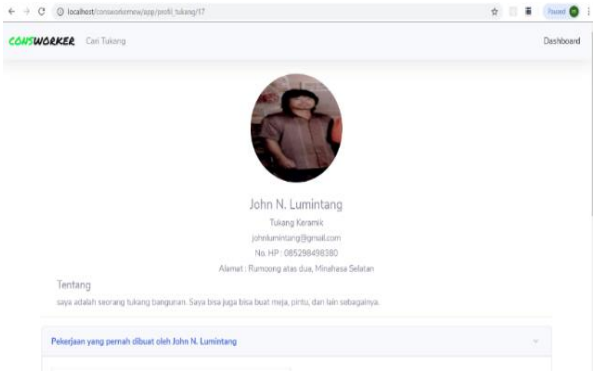

Fig 6:- Display of Users Detail

Fig 6 shows the View of Users Detail, In case of Handyman needs to see more complete data from the handyman

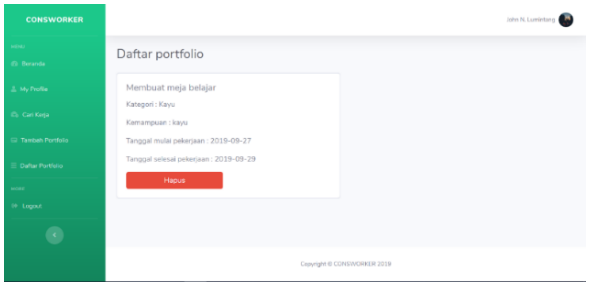

Fig 7:- Display list of Workers Portofolio

Fig 7 shows List of Portofolio or works that have already done by the Handyman, and the list of jobs can be deleted by the handyman itself

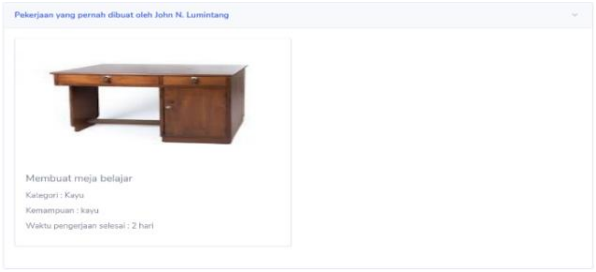

Fig 8:- Display of Job List uploaded by the handyman

Fig 8 Indicates that list of jobs uploaded by a handyman is one that was created by the handyman

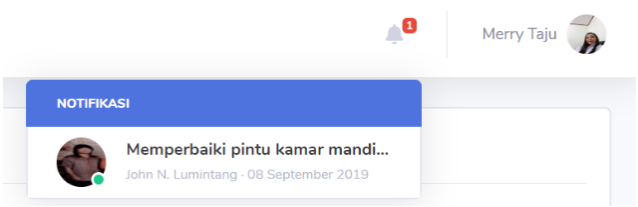

Fig 9:- Display of job taking notification from the handyman

Fig 9 explain the Display of Job taking notification from the handyman. When the Handyman take the job that has been posted. A notification will pop up in handyman's search page.

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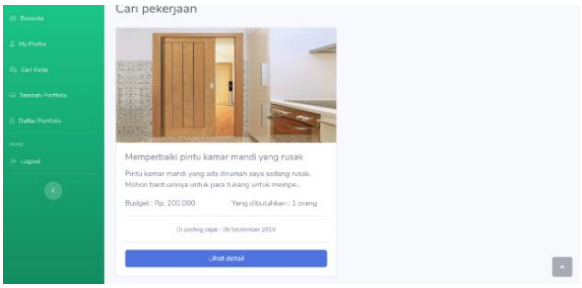

Fig 10:- Display of the job search page

Fig 10 shows the page to find a job, and all handyman who will look for work can enter the job search page.

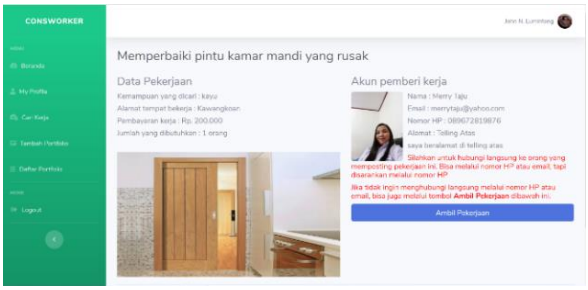

Fig 11:- Job Details Display

Fig 11 explain that the above page is a detail of the work that was posted by Handyman seekers.

IV. COCNLUSION AND SUGGESTION

A. *Conclusion*

Based on the results from the implementation and the analytic system on handyman online seeker the conclusions can be drawn such as:

- This Application was created to make it easier the for people to find the handyman they want in accordance with the needs of existing jobs
- The application is useful for craftsmen because it makes it easy for the craftsman to promote his expertise to the people so that he can get a lot of work that has been uploaded into the application
- There is no real time notification to the Service Provider and Service User
- Facilitate meetings between service users and service providers
- Help the labor department in dealing with the problem of unemployment

B. *Suggestions*

In developing this online handyman information still has many shortcomings. The suggestions are used as a reference for research or the application development is:

- Can be developed by the notification by SMS feature to service users or service providers
- Can add features to contact directly from the system such as real time chat or video calls
- Adding other service providers such as barber services, sewing services and others.

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