

Codeigniter Web Based IMS (Integrated Management System) Training for Fisherman Group Business In Rusamin SMEs

1stAbu Tholib^(✉), M.Alfan Farhan², Hardi³

^{1,2,3} Universitas Nurul Jadid Probolinggo
ebuenje@gmail.com

Abstract— *UMKM Rusamin is a business group selling UKM products produced by fishermen's wives. In the sales process, data is recorded on the sales form and then inputted using the Microsoft Excel application. The recording process like this is less effective because of the large number of books and orders that must be inputted, so mistakes and errors often occur in inputting and searching data which can take time in preparing the report. This training aims to provide management knowledge regarding using the CodeIgniter web-based IMS (integrated management system) application for fishermen group businesses.*

Keywords—*Integrated Management System, codeigniter, UMKM rusamin*

1 Introduction

The development of information and communication technology has now entered the industrial era 4.0 or interactive communication. These developments have changed significantly for all sectors of everyday life. The arrival of the industrial era 4.0 is starting to approach with the existence of artificial intelligence technology and Big Data which replaces human labor in the production process of goods, huge data storage known as cloud computing technology, and very complex integration of data processes [1]. The development of information and communication technology today certainly started from advances in the field of computerization. At the beginning of its use, the computer was only used for writing, making graphics and drawings as well as a means of storing data. Currently the computer has turned into a means of communication, entertainment, educational facilities and others, which has helped almost all sectors of daily life, with a network that has covered the whole world [2]. Not only computers, all sectors of human life are also related to the internet. The internet is used to connect one computer network to other computers around the world, it also connects computer users with service network systems, such as e-mail, chatrooms, and the world wide web [3].

Internet users in the world are growing rapidly. Based on statistical data as of December 30 2018, there were 2,199,428,570 world residents using the internet and internet users in Indonesia as of June 30 2019 reached more than 143,260,000 people (www.internetworldstats.com), or 53.2% of the total population of Indonesia. It is estimated that the use of the internet will expand rapidly in line with the development of infrastructure and the availability of increasingly affordable information technology. The Internet is one of the most effective information media for dissemination of information. Currently websites are needed in various fields, especially for every organization or institution that can support all ongoing business processes, because this has led to the emergence of many software companies that provide the services and products they offer to build an impactful web-based system program. the need for programmers will increase[4].

With the need for a programmer increases so that the need for useful information to support a business is very important. According to . Information is data that has been processed in a way to give meaning and improve decision making. With the IMS (integrated management system) application based on the web codeigniter for fishermen group businesses, it can be used for

✉ Corresponding author

staffing, finance and sales management so that it makes it easier for the Rusamin UMKM in reporting. The parts involved in the integrated database system are leaders, admins and users. This integrated database system can help the admin for financial and sales recapitulation.

2 Method

To achieve the goal of community service, the method used is by interviewing and observing the leaders in UMKM Rusamin so that later when making the system it can suit the needs of UMKM Rusamin. In addition to these 2 approaches, it also uses the waterfall method in developing the system to be made, this stage includes analyzing needs, designing the system to be built, implementing the design that has been built on the programming language used, system testing and system maintenance [4]. In addition to the several approaches that have been mentioned, this service also uses literature studies from several studies or journals as additional references / foundations in working on systems or reports that are working on them. The stages in this dedication are as follows:

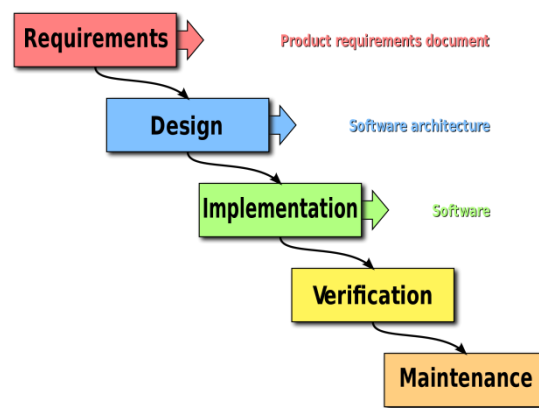


Fig. 1. System Design Flowchart

In general, there are 4 stages in the community service process, which include :

1. Problem identification is carried out by observing and interviewing the Rusamin MSMEs in the ongoing information dissemination process
2. The results of the observations and interviews that have been carried out are then analyzed, there are data and the needs needed to be used as material in making the design of the system to be built. The system design used in this service uses Data Flow Diagrams and Entity Relation Diagrams. System design assistance is carried out once a week.
3. This assistance is carried out after the system design has been completed. The design of the system that has been designed is used as a reference in the implementation of the programming language used in creating websites. The programming used is PHP programming with the CodeIgniter Framework.
4. After the system design implementation process for the programming language is carried out, the next stage is system testing. System testing is carried out by making a presentation to the management of the Rusamin MSME. After the system testing process is carried out,
5. after carrying out the testing phase it is possible to experience changes due to errors that were not found. therefore, when testing the user must understand the program that has been made. Maintenance will be carried out if errors are found in the system. application maintenance is carried out to improve the quality of the application which is much better

3 Findings And Discussion

3.1 Finding

In general, there are 2 stages in the community service process, which include:

1. Identification of problems

Identification of the problem was carried out by observing and interviewing the UMKM Rusamin which resulted in several problems in the ongoing information dissemination process.



Fig. 2. observation to the location of Rusamin SMEs

2. System Design Assistance

The results of the observations and interviews that have been carried out are then analyzed, there are data and the needs needed to be used as material in making the design of the system to be built. The system design used in this service uses Data Flow Diagrams and Entity Relation Diagrams.

3.2 Discussion

This assistance is carried out after the system design has been completed. The design of the system that has been designed is used as a reference in the implementation of the programming language used in creating websites. The programming used is PHP programming with the CodeIgniter Framework. The results of the implementation of this assistance are as follows :

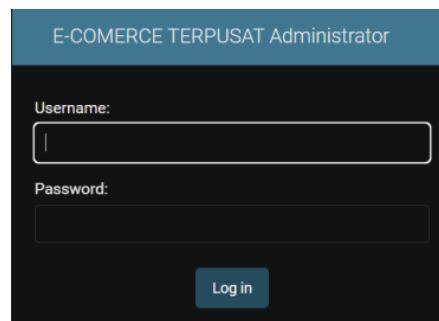


Fig. 3. Page Administrator Login

On this home page, users can find out the latest transaction information in the application and we can find out the details of existing transactions.

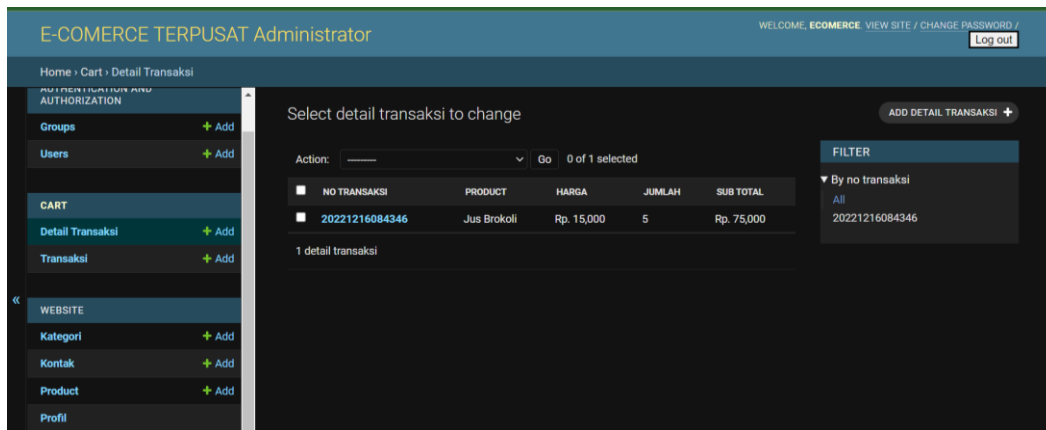


Fig. 4. Page Customer Transaction

On this page we can find out the products from UMKM Rusamin that have been uploaded in the application so that later customers can find out what products are in the UMKM Rusamin application.

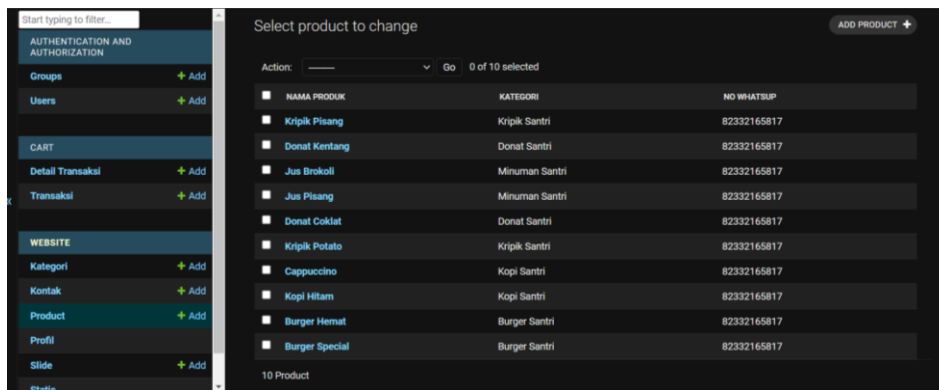


Fig. 5. Product Administrator Front Page

Online product pages at UMKM Rusamin with a wider range and buyers can easily search for their favorite products and process orders and payments via the marketplace. It is also useful to help increase business sales turnover.

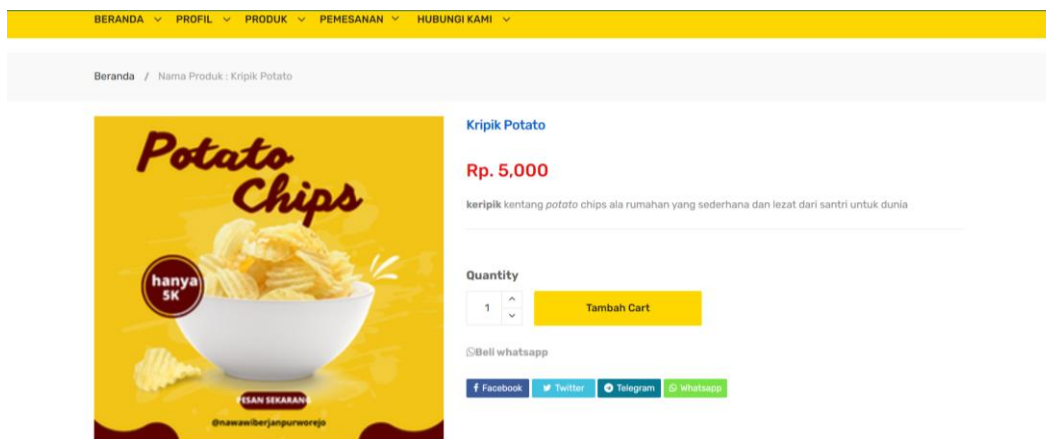


Fig. 6. Front page web

4 Conclusion

The results of the codeigniter web-based IMS (Integrated Management System) training for fishermen group businesses in UMKM Rusamin in the community service program have been completed with several conclusions obtained including the website that was built has been completed even though there are several points that need to be repaired and the MSME management team Rusamin gained new experience in developing information systems. Websites that have been built can be accessed by management, admin, customers.

5 References

- [1] D. Setiawan, "The Impact of Information and Communication Technology Development on Culture," 2018.
- [2] M. Destiningrum and Q. J. Adrian, Web-Based Physician Scheduling Information System Using CodeIgniter Framework (Case Study: Yukum Medical Center Hospital. 2017.
- [3] S. Putrawangsa and U. Hasanah, "Integration of Digital Technology in Learning in the Industrial Age 4.0 Study from the Perspective of Mathematics Learning" 2018.
- [4] W. Triharseno, M. Mega Pradnya Duhita, and A. Priadana, "Decision Support System for Acceptance of Software House Programmers Using the Simple Additive Weighting (SAW) Method," 2020.
- [5] Yusup M, N. Komariah, "Using the Internet for Livelihood Among Rural Youth," 2019.

6 Authors

Abu Tholib is a permanent lecturer at the Informatic Study Program at Nurul Jadid University who is currently a field assistant lecturer in real work lecture activities (Email: ebuenje@gmail.com)

M Alfan Farhan is a student in the Informatic Engineering study program at Nurul Jadid University who is currently pursuing real work college activities (Email: alfan89@gmail.com)

Hardi is a student in the Informatic Engineering study program at Nurul Jadid University who is currently pursuing real work college activities (Email: hardiyan@gmail.com)

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