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International **Journal of Advances in Data and Information Systems** Vol. 3, No. 2, October 2022, pp. 98~105 ISSN: 2721-3056, DOI: 10.25008/ijadis.v3i2.1245 r 98 Journal homepage: <http://ijadis.org> Development of Marine Products Auction Information System (Case Study: Fish Auction Place in Karanganyar, Kragan, Rembang, Central Java) Sri Wulandari¹, Ach Luthfi Imron Juhari² ¹ Department of Informatics, Yogyakarta University of Technology, Indonesia ² Department of Informatics, Yogyakarta University of Technology, Indonesia Article Info ABSTRACT Article history: Received Sep 15, 2022 Revised Oct 21, 2022 Accepted Oct 30, 2022 Information is needed at any time, where with the development of information technology in developing computerized systems to produce the right decisions in achieving goals, the Kraganyar Fish Auction Place (TPI) is one of the government agencies in the field of Village Unit Cooperati ves which functions as a place for buying and selling fishermen and bidders . The problem to be discussed is to build a marine product auction information system that will regulate the information dissemination process to be more effective and efficient.

The built system will also use the PHP and MySQL programming languages. The system development method used is the Prototype method. System planning uses unified modeling language (UML), and Entity Rational Diagram (ERD). Keywords: Information Systems Auction Marine Products This is an open access article below CC BY-SAlcence. Corresponding author: Sri Wulandari, Department of Informatics, Universitas Teknologi Yogyakarta , Indonesia Siliwangi Street (North Ringroad), Jombor, Sleman, Yogyakarta . Email: sri.wulandari@staff.uty.ac.id 1.

INTRODUCTION In this modern era, humans are required to think, act and decide things quickly, things like this can also be supported by fast technology. Nowadays almost everything can be done online, from newspapers, trade transactions, promotion of a

product, to personal data and the location of a place, done practically via cell phone or using a computer online. This prompted the researchers to create a system that is usually carried out by humans by always meeting face to face so they don't need to meet face to face or meet again.

The increasing demand for consumption of marine products has driven purchasing growth, by seeking relatively lower prices than market prices and better quality, the seafood auction sites are the intended places. Before circulating in the market for marine products obtained from fishermen, there is no fixed price, because marine products from fishermen will be auctioned directly first. The more seafood at that time, the cheaper it was. However, information on auction results is not processed properly. Meanwhile, many parties want to know information about seafood auctions.

Another problem is in terms of traditional marketing, where people have to come to the Fish Auction Place (TPI) to bid on the price of the fish to be purchased. However, it is prone to unwanted fraud from irresponsible parties. In addition, it can have an impact on the quality of the fish to be purchased int. J. Adv. Info Data System. ISSN:2721-3056 r Development of Marine Products Auction Information System ... (Sri Wulandari) 99 which is no longer fresh. This problem also harms the fisher men because the quality of the fish decreases. Algorithms and online auction procedures that use website -based software with updated data at any time [1][15].

In addition to algorithms, we also need a database to store data, the term database or database is a collection of data that are interconnected and related to a particular subject for a specific purpose, the relationship between the data can be seen by the presence of fields. or column [2]. Which will be joined in a network of procedures that are interconnected, gather together to carry out activities or to carry out certain goals [3][13]. So that the data is processed into a form that is more useful and more meaningful for those who receive it [4][14].

A system is a set of interrelated or integrated elements that are intended to achieve a unit consisting of two or more components or subsystems that interact to achieve a goal [4]. The system is a network of procedures that are interconnected, gathered together to carry out activities or to carry out certain goals [3]. The system is an arrangement consisting of a number of functional components (with specific tasks/functions) that are interconnected and jointly aims to fulfill a particular process/job [5].

The system is a network of procedures that are interconnected, gathered, together to carry out an activity or complete a certain goal [6]. Information is data that has been

processed so as to reduce uncertainty about a situation or an event. While the word data is the actual fact or reality [7]. The web is "one of the services obtained by computer users connected to hypertext facilities to display data in the form of text, images, sound, animation and other multimedia" [8][9]. Base can more or less be interpreted as a headquarters or warehouse, a place to attack/gather.

While data is a representation of real world facts representing an object such as humans (employees, students, purchasing customers), animal goods, events, concepts, circumstances, and some that are manifested in the form of numbers, letters, symbols, text, images, sounds, or a combination thereof. [10][11][12]. While the word data is the actual fact or reality [7]. The web is "one of the services obtained by computer users connected to hypertext facilities to display data in the form of text , images, sound, animation and other multimedia" [8][9].

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[10][11][12]. Based on these problems, a website-based application is needed, namely "Marine Product Auction Information System at Fish Auction Places".

With this system, it is hoped that it will make it easier for the public to obtain information on auction results quickly and accurately and can assist fishermen in conducting fish marketing efficiently. 2. RESEARCH METHODS In the process of making this information system, there are several stages of problem solving carried out, the first stage is the researcher identifying the problems that exist in the relevant agencies and people, then the researchers collect the necessary data through interviews with agencies or parties r ISSN: 2721-3056 International Journal of Advances in Data and Information Systems, Vol. 3, No.

2, October 2022 : 98 – 105 100 directly related to the agency, such as fishermen and price bidders. Then the researchers carried out the development and testing of the developed system. Table 1. Auction Data Day/ date N o Boat Seafood Number/ Basket Price Total bidders Auction eer Mond ay, May 3, 2021 1 Sekar 5 Cob 15 Rp. 9,000,000 IDR 34,000,000 Hj. tick Suhema n Cakalan 20 Rp. 13,000,000 Bloating 20 IDR 12,000,000 2 Ocean Sea mackerel 23 IDR 22,000,000 Rp. 40,000,000 Tumina h Suhema n Bloating 30 IDR 18,000,000 Tuesd ay, May 4, 2021 1 HS 2 Bloating 19 Rp. 10,000,000 Rp. 17,560.00 Hj Yanti Suhema n Mullet 28 IDR 7,560,000 2 Liman's work Tiger Shrimp 35 Rp. 87,000,000 IDR 90,240.00 Hj Tutik Suhema n Mullet 12 IDR 3,240,000 Hj Yanti 3 sustaina ble Bloating 65 IDR 27,300,000 IDR 27,300,000 Hj Tutik Suhema n 4 True Work mackerel 32 IDR 20,480,000 IDR 33,680,000 Hj Hasan Suhema n Cakalan 24 IDR 13,200,000 Wedn esday, May 5, 2021 1 Ayu's source 1 Juwi 56 IDR 11,760,000 IDR 16,700,000 Sulastri Sigit Bloating 19 IDR 4,940,000 2 HS 1 mackerel 9 IDR 7,740,000 IDR 25,690,000 Hj Hasan Hj Tutik Sigit Juwi 25 IDR 5,250,000 Bloating 15 Rp. 3,900,000 Cob 8 Rp.

8,800,000 Thurs day, May 6, 2021 1 Now 3 Bloating 20 IDR 4,500,000 IDR 29,220,000 Sulastri mackerel 20 IDR 11,200,000 Cakalan 26 IDR 13,520,000 2 Muslim Juwi 36 IDR 7,560,000 IDR 25,200,000 Hj Hasan Cob 28 IDR 17,640,000 3 Blossom Bloating 42 IDR 15,960,000 IDR 24,650,000 Hj Lastry Cakalan 9 IDR 4,770,000 mackerel 7 Rp. 3,920,000 There are two types of input processes for the system to be built, namely data entry that will be entered by the user using the android user application and data entered by the admin using the android admin application.

The following is a use case diagram used in the android user application. int. J. Adv. Info Data System. ISSN:2721-3056 r Development of Marine Products Auction Information System ... (Sri Wulandari) 101 Figure 1. Use Case Diagrams From the use cases in this auction application, a more detailed design is carried out in the form of a sequence diagram. This sequence diagram will explain how the process is carried out and what

orders will be given to achieve the intended function. The following is a snippet of the sequence diagram of this auction application: Figure 2. Bid Price Input Sequence Diagram From the use case design that has been done before, then an activity diagram is designed to find out the details of the activities that can be carried out on this application.

This activity diagram serves to describe the flow of activities in the system being built. The following is a snippet of the auction application activity diagram: Figure 3. Add Goods Activity Diagram r ISSN: 2721-3056 International Journal of Advances in Data and Information Systems, Vol. 3, No. 2, October 2022 : 98 – 105 102 ERD is a data model to describe the relationship between one entity and another entity that has a relationship (relationship) with boundaries [5].

Entity Relationship Diagram is a diagram that can express the entire logical data structure from the depiction of the database. Describe the relationship between entities used in making information systems. Figure 4. ER Diagram This stage, defines the database that will be stored including field names, data types, lengths, and descriptions. The following is an example of an information system table structure Table 2. Auction Transactions

Field name	data type	key	Information
id_lelang	varchar(5)	primary	Primary of the Information table
id_bid	varchar(5)	foreign primary	primary of the Bidder table
id_ship	varchar(5)	foreign primary	primary of the Ships table
id_jur	varchar(5)	foreign primary	primary of the Auctioneers table
date	date	Not save	date seafood
varchar(20)		Not Save	the name of the seafood price
double		Not Save	Prices

3.

RESULTS AND DISCUSSION After creating the database and designing it, trials will be carried out using SQL Queries with several forms of testing, namely DDL, DML, and DCL. Figure 5. Create a Table int. J. Adv. Info Data System. ISSN:2721-3056 r Development of Marine Products Auction Information System ... (Sri Wulandari) 103 Figure 6. Alter Table The system created will have several features. Some of these features include: a. Login feature, for TPI Admin to enter the system b. CRUD feature, for Admins so they can update data c. Search feature, when entering the main page the user will immediately display the auction results information feature and search for auction results on a certain day or time d.

Thanks to the download feature, users can also download auction results at a certain time that has been chosen by the user. Figure 7. Homepage Figure 7 is an application figure for the homepage. Figure 8. Information r ISSN: 2721-3056 International Journal of Advances in Data and Information Systems, Vol. 3, No. 2, October 2022 : 98 – 105 104 Figure 8 is an application image for information on auction results and venues. Figure 9. Home Admin Figure 9 is an application image that will be used by the admin to process

auction data.

Admin access testing is carried out to test various menus and features that are in admin access, this test will be tested by the Fish Auction Place Admin (TPI). Table 1. Admin Access Testing No Testing Activity Hope Results Status 1 Login as Admin Enter into the admin dashboard ü In accordance 2 View, add, edit, and delete Auction data Displays Auction data ü In accordance 3 View, Add, edit and delete Ship data Displays Ship data ü In accordance 4 View, add, edit, and delete Bidder data Displays Bidder data ü In accordance 5 View, Add, edit, and delete Auctioneer data Displays Auctioneer data ü In accordance 6 Logout Return to login page ü In accordance User access testing is carried out to test various menus and features that are in User access, this test will be tested by the Fish Auction Place Admin (TPI). Table 2 .

User Access Testing No Testing Activity Hope Results Status 1 Login as User Enter the user's main page containing the auction list ü In accordance 2 Item Search Displays the auction item data sought ü In accordance 3 Price quote input Displays price quote input data ü In accordance 6 Logout Return to login page ü In accordance 4. CONCLUSION The results of the research and discussion with the Karanganyar Fish Auction Place (TPI) case study can be concluded that: a. With the use of a Website-Based Information System at TPI Karanganyar, the process of updating information about TPI can be done quickly. int. J. Adv. Info Data System.

ISSN:2721-3056 r Development of Marine Products Auction Information System ... (Sri Wulandari) 105 b. The Fish Auction Information System in Kragan Karanganyar, reviews the processing of Daily Auction Data, such as ship data, marine products, to the name of the bidder or bidder, which makes it easier for TPI officers to record all data quickly and accurately. c. Using a computerized system can minimize data recording errors, and will save more on the cost of purchasing stationery, as applied to the previous system. And the prospect of implementing further studies in the future (based on results and discussion).

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