



Design and Implementation of Service Information System in Booking Weight Steam Based on Web

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Abstract— The development of information technology today requires all activities to run well. Almost all agencies or companies already use a variety of applications to support their work, for easy in performing daily operational activities. Similarly, PT. XYZ whose company is engaged in lightweight steel roof distributor region of west Jakarta, also want to provide the best ordering services for customers and business partners. As one of the emerging distributors of course in terms of service lightweight steel roofing, PT. XYZ make use of web-based application system to serve as a means in conducting service ordering lightweight steel roof. In this case the research is done to design an application on web-based software that is application service in ordering lightweight web-based steel roof by using OOAD (Object Oriented Analysis Design) method with modelling using object-oriented approach that is UML (Unified Modelling Language). The results to be achieved is a service application in ordering lightweight web-based steel roof that can provide convenience services for customers who want to order lightweight steel roof and as well as a marketing tool for lightweight steel roof in PT. XYZ.

Keywords: Booking Services, Web-Based, OOP, Service Ease

I. INTRODUCTION

The development of information technology today requires all activities to run well. Almost all agencies or companies have used a variety of applications to support their work for easy in performing daily operations. Similarly, PT. XYZ whose company is engaged in lightweight steel roof distributor in West Jakarta, also want to provide the best ordering service for customers and business partners. As one of the lightweight steel roof distributor which is developing of course in terms of service of lightweight steel roofing at PT.XYZ must be made an application to support the development in serving lightweight steel roofing with web-based, so that potential buyers can access it easily without having to come or spend much time to make a purchase order light steel roof in PT.XYZ. During this time PT.XYZ only uses the media telephone and facsimile as an application in ordering service purchase lightweight steel roof. As is known, if only using telephone and facsimile to be used as an application in the information system is less effective in serving customers who make the purchase order of lightweight steel roof. Therefore, designed web-based applications to provide information about services in order to purchase lightweight steel roof at PT.XYZ. With this web-based service application is expected to provide convenience for customers who want to make a purchase of lightweight steel roof at PT.XYZ. Based on the above background, it can be identified as follows: (1). ordering service in purchasing lightweight steel roof that has not been fully done optimally and (2). there is no supporting application to assist in the implementation of ordering services in the purchase of lightweight steel roof in PT.XYZ in addition to the media telephone and facsimile. The purpose of the service system research in ordering lightweight web-based steel roof such as: (1) analyzing the performance procedure of service system of lightweight steel roof ordering in PT.XYZ, (2) analyzing all data and information that has been collected regarding the procedure of service of lightweight steel roof ordering at PT. XYZ, (3) make it easy for users to use the booking service system and (4) designing a system that can display several reports of information in ordering services in the purchase of lightweight steel roof in PT. XYZ.

II. RELATED WORK

In everyday life in the era of technology and computerization today, often sound system terminology such as computer systems, operating systems, information systems, geographic systems, academic systems and others. The system is defined as a set of interconnected and interconnected procedures to perform a task together. Broadly speaking, an information system consists of three main components. The three components include software, hardware and brain ware. These three components are related to each other. (Nugroho Adi, 2010) Information can be obtained either printed (newspapers, magazines, books) and electronic media (internet, television, radio). Such information may be either true information or misinformation or misleading information. information is the result of processing data from one or multiple sources, which is then processed, thus providing value, meaning and benefits. This processing requires technology. Computers is one form of technology that can process data into information (Primary, 2014). Based on the definition of the system and information described above, the information system is a combination of four main parts of software (software), hardware (hardware), infrastructure and human resources trained. These four main sections are interrelated to create a system that can process data into useful information. (Nugroho Adi, 2010). From various descriptions, it can be concluded that information systems are human resources, hardware, software, communications networks, data, policies and procedures are interrelated to store, retrieve, alter and disseminate information within an organization or company. Information systems are developed according to the needs of users. This means there are many different types of information systems for different purposes. The information system also has several components and several elements, which inter-component and these elements work together, are inter-related and have a functional work that together, so that information systems can work well. Service is an

activity or a series of activities that are invisible (not palpable) that occur as a result of the interaction between consumers with employees or other things provided by the company providing services intended to solve consumer or customer problems (Daryanto, Setyabudi 2014). Service is also a series of activities that cannot be palpated and occur as a result of interaction between service providers and those who are served. Booking is the desire of consumers to buy an item at various price levels for a certain period of time, the order is the amount of goods ordered in a particular market with a certain price level at a certain level of income and within a certain period. Running inventory system begins when the ordering of goods for inventory in the warehouse (Daryanto, Setyabudi 2014).

III. METHOD

In conducting application development for services in order to purchase lightweight steel roof at PT. XYZ web-based, there are several problems and factors that need attention. Factors to be analyzed include the information needs of data services roofing services from the actors involved that will serve as a reference in the development of software application services in order to purchase lightweight steel roof at PT. XYZ web-based. Based on the description above system design is the stage of the system development cycle defined from the functional requirements and preparation for design implementation that describes how a system is formed, which can be a description, design, and making arrangements of several separate elements into a single unit intact and functional and involves the configuration of the hardware and software of a system. Service application development in ordering web-based lightweight steel roof in PT. XYZ is expected to be able to provide information on roofing products sold menu, information about the procedure of way in ordering lightweight steel roof, and also as one of the marketing media directly on sale there on service applications in ordering lightweight web-based steel roofs. This design process is the initial stage of the design of service information system services in ordering lightweight web-based steel roof which is done as problem solving contained in the service application process in ordering lightweight steel roof when used, such as: (1). customers make an order by registering the customer's identity by completing the customer form that has been available on the web system, (2) after customers register, customers can login to start transacting with the cashier or sales department, (3) to follow up the activities undertaken by the customer, then the cashier or part login as an actor in serving customers by logging on the web that has been available, (4) after the lightweight steel roof order transaction has been deal between the customer and the cashier or the sales department, the cashier or sales department can input data from the order made by the customer, (5) if the input ordering data has been completed by the cashier or sales department, then the cashier or sales department can provide sales receipts to customers so that customers can make payment and ordering goods can be processed immediately, (6) if the customer has received the purchase receipt and has made payment via transfer, then the customer can uploading proof of payment to the web system that has been available, the cashier or sales side can check it on the web system that has been available, (7) after that the cashier or the sales department provides data lightweight steel roof ordering customers to the administration for the input and to be used as a reference making report to be given to the owner, (8) the administration may also input the purchase data of the supplier and make reports concerning the turnover to be given to the owner and (9) section owner can login as owner account to view reports that have been done by administration section.

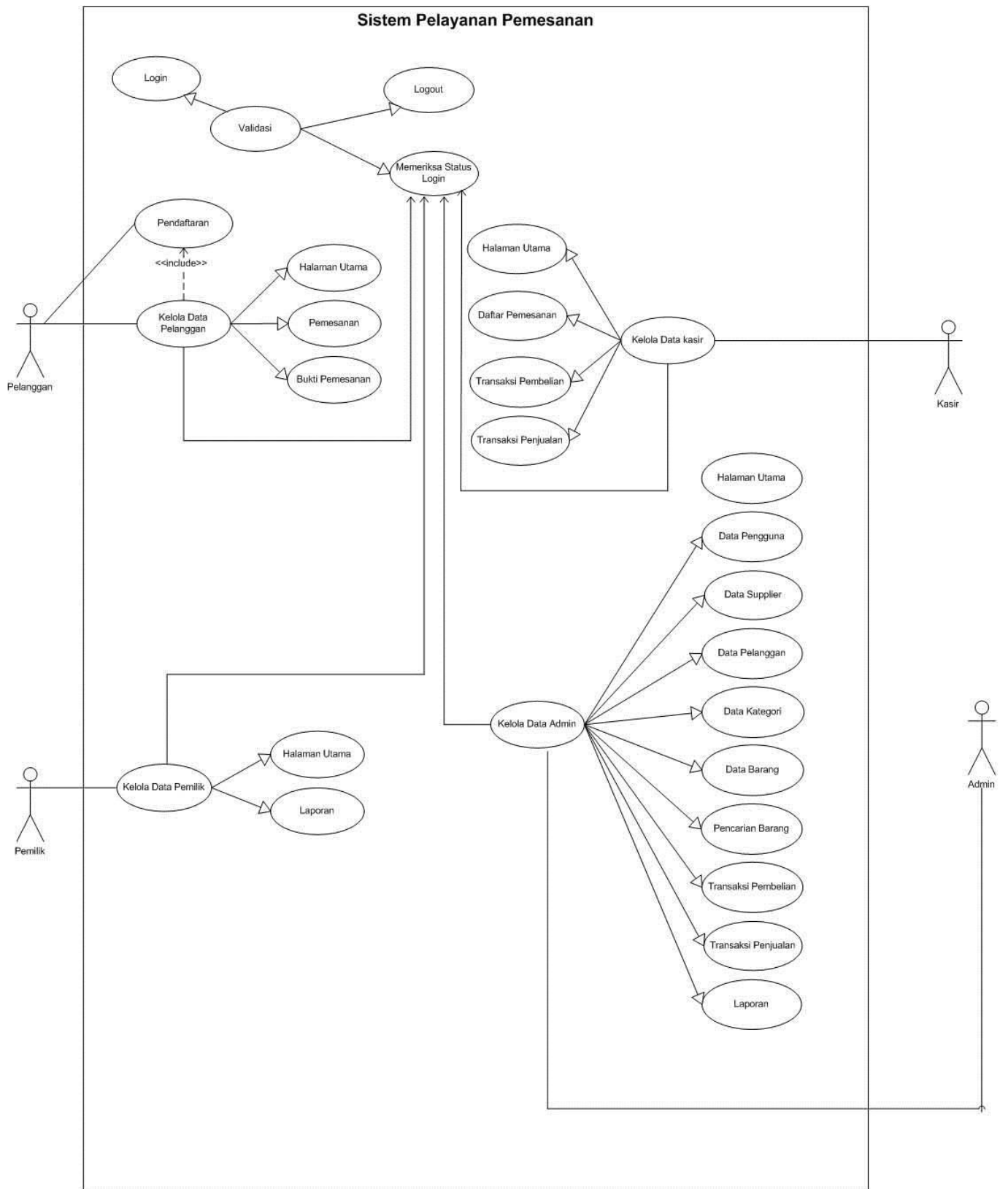


Fig. 1 Use Case Diagram PT. XYZ

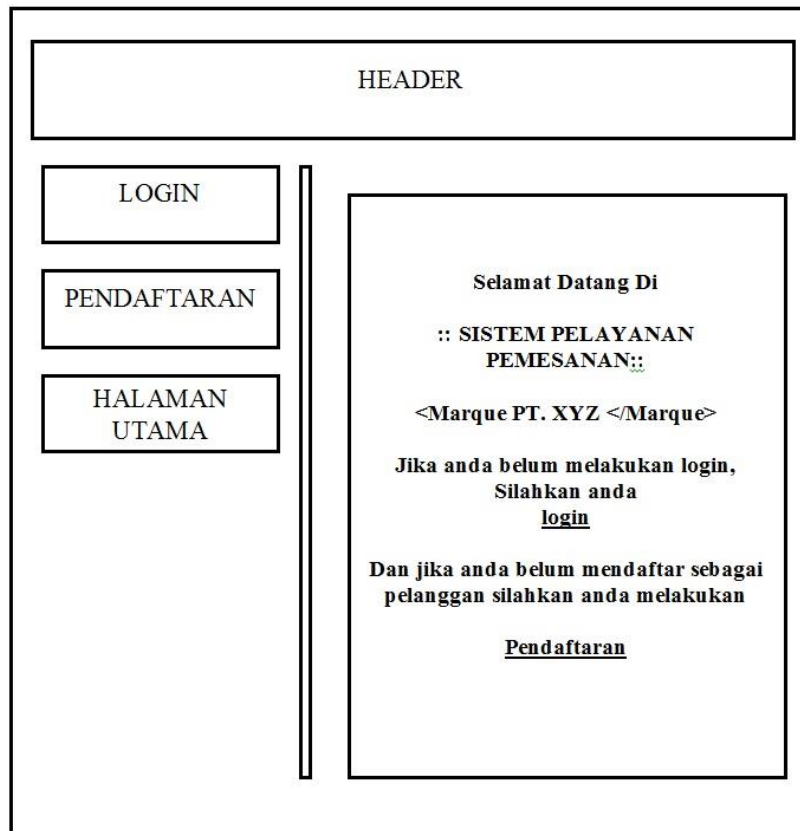


Fig. 2 Design system of PT. XYZ

IV. RESULT

This stage is the implementation phase of the system, done after the stage of design analysis and system testing is done. To run this reservation service system program using PHP as programming language and MySQL (phpMyAdmin) as Data Base Management System (DBMS), it required a Web Server that will be used as a storage place for the program. Web Server to be used as "Xampp", or other Web Server program that supports PHP and MySQL programs as database server.

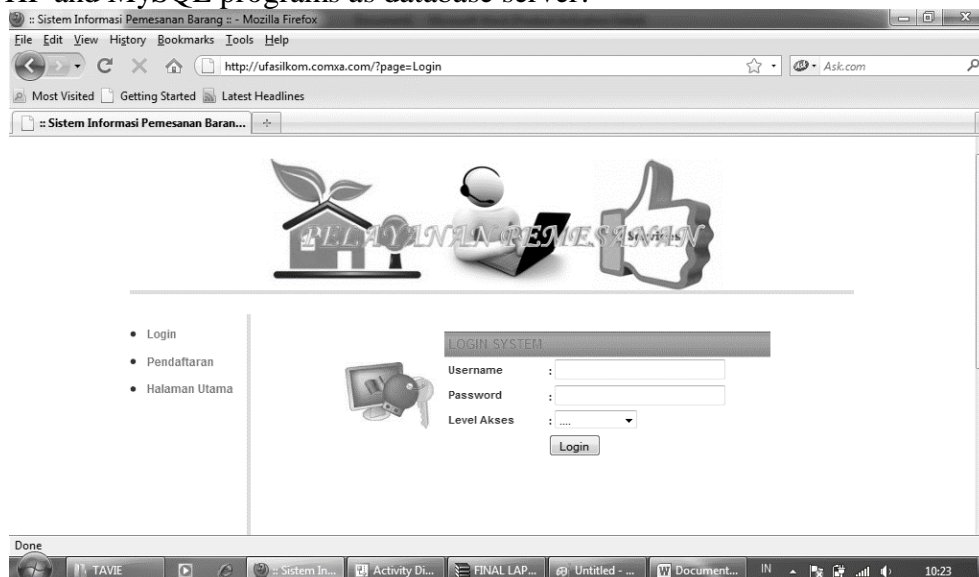


Fig. 3 Login Users



Fig. 4 Home of customer

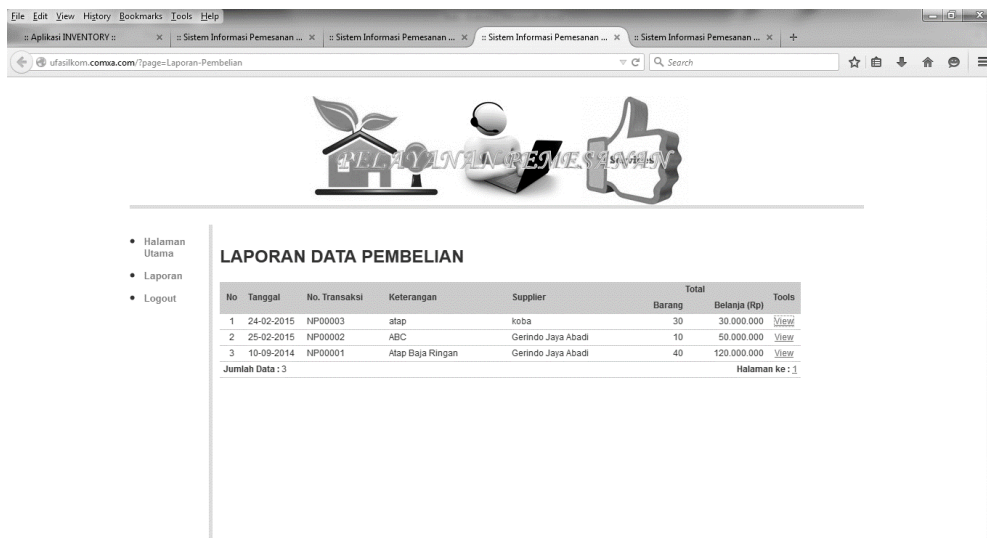


Fig. 5 Report of purchasing

V. CONCLUSION

With the application service system in order to light web-based steel roof at PT. XYZ, it can help facilitate customers in ordering the purchase of lightweight steel roof and help employees of PT. XYZ in doing service to its customers. Application service system in ordering lightweight web-based steel roof at PT. XYZ consists of 4 actors such as owners, cashiers, administrators and customers. In this application the owner can review the reports that have been available, the administrator in charge of inputting all data activities undertaken by the involved user began, while the cashier served to serve customers when customers make a reservation and provide customer reports to admin for input data admin which can be used for making reports to the owner, and customers can make transactions as customers to be logged in as a customer PT. XYZ. Design of information systems on service applications in order lightweight web-based steel roof that will be proposed at PT. PT. XYZ uses PHP:

Hypertext Preprocessor with tools used as local webserver is XAMPP and MySQL as its data base. And to analyze it using use case diagrams, activity diagrams, sequence diagrams, class diagrams.

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