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Application of Menu Ordering Information System Design at Kawas Truck Café with WEB Design

Rahdian Kusuma Atmaja[1], Hari Sugiarto[2*], Priyono[3], Sugiono[4], Ade Setiawan[5]
[1,2,3,4,5]Universitas Bina Sarana Informatika, IndonesiaIndonesia

A R T I C L E I N F O

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ABSTRACT

Kawas Truck Cafe is a business entity engaged in the culinary field. The cafe does not yet have an information system that can assist in various processes in it, such as the ordering process, and sales transactions and reports. This can cause problems such as human error in the ordering process. The use of stationery and paper when recording menu orders results in overlapping orders, unordered delivery of orders. The report process at this cafe still uses conventional methods in recording and storing order transaction data. So to overcome these problems, the author makes a computerized system for ordering menus at the Kawas Truck cafe to be more efficient. In making this web, the author uses programming languages such as PHP, HTML, javascript, css, jquery with several features such as login, menu data, customer data, user data, sales transactions, orders, and reports that can be accessed by company owners and cashiers. By creating a computerized system, the author can help the ordering process, sales to reporting at Kawas Truck Cafe, to achieve effective business activities and time efficiency in company activities.

Corresponding Author:

Hari Sugiarto,
Program Study of Accounting Information System,
Universitas Bina Sarana Informatika Kampus Karawang,
Banten No.1 Street Karangpawitan, Karawang, west Java, 41315
Email: hari.hrs@bsi.ac.id

1. INTRODUCTION

Cafe is one type of culinary business in the field of selling various types of food and various types of drinks. Cafes are not only a place to eat, sometimes cafes are also a place for us to relax with friends, meet guests, and can even be used as a place to do college assignments and others (Adisumarto, 2017). Data recording and management as well as ordering transactions at several cafe places in the Cikarang area are still done manually. The use of stationery and paper when recording menu orders results in overlapping orders, unordered delivery of orders. Restaurant owners or managers who are far from the location make it difficult to obtain restaurant information, thus causing data falsification.

With the existence of business competition in the same field, it requires the owner to be able to balance it by having to follow technological developments such as using the internet to create sites that can serve online orders.

In this study the authors involved a food and beverage service business that had been established for one year. Kawas Truck Cafe is one of the cafes in the Sukaresmi area,

Cikarang that is currently improving service standards at Kawas Truck Cafe for food and beverage orders that can be made via the web. Kawas Truck Cafe has many transactions with consumers, but is hindered by the absence of informative online media for ordering that explains in detail the food and drinks offered by the Cafe, making it easier for customers to order several menus at the Cafe. In making this system the author uses the programming language PHP, HTML, javascript, css, jquery, and MySQL database. This system is in the form of a web which aims to speed up and facilitate the work of this cafe which still uses a manual sales system.

Several studies on ordering food and drinks have been carried out by previous researchers, including a study entitled "Online Food and Beverage Ordering Applications Based on a mobile browser at Tiga Saudara Restaurant", that the ordering system is still manual, where visitors have to wait for the waiter to come. to serve and provide a menu list, then record on paper containing a list of food or drink menus that have been ordered by visitors and then the waiter submits the notes to the kitchen, so this system is considered inefficient in restaurants that are usually crowded with customers, this system also requires a lot of time and labor from restaurant waiters, and also often makes customers wait a long time to see a restaurant menu list due to the limited number of waiters or at that time the waiter is serving other customers (Defrina et al., 2017). Then according to the research conducted by Oley entitled “Website-Based Food and Beverage Ordering System (Case Study of Restaurant Tycoon), the research conducted is to create a food and beverage ordering system using internet media that can streamline time for restaurants and customers. This research is in the form of a website that can be accessed by everyone who directly sends orders to the chef's and cashier's tables and it is hoped that the restaurant can improve efficiency and service quality (Oley et al., 2017). Continuing to the research conducted by Kusnadi entitled "Analysis and Design of Web-Based Reservation and Order Menu Applications at the Duck Van Java Restaurant", that this web-based application uses PHP as a programming language. With this web-based reservation application, it is hoped that it will help restaurants and consumers in the reservation process (Kusnadi & Hasti, 2016). Further research conducted by Immah entitled "Web-Based Food Ordering Application (Case Study: RM Lesehan Berkah Ilaahi Gresik)" said that the development method used was Object Oriented by utilizing the Yii Framework which is a PHP framework based on Model View Controller (MVC). In addition, a bootstrap framework is also used in terms of application design to provide application flexibility when accessed with devices with smaller resolutions such as mobile phones (Inayati, 2015).

2. RESEARCH METHOD

In this study, the following steps were carried out:

a. Identification of problems To find solutions to existing and future problems (Johar & Coastera, 2016).
b. Study of literature Studying and understanding theories that serve as guides and references for solving related problems and studying research that is relevant to related problems (Haerofifah, 2022).
c. Collecting data related to the research that the author did by conducting direct observations and interviews with related parties (Nurlaila, 2016).
d. Performing system requirements analysis, outlining a complete information system into its component parts with a view to identifying and evaluating problems, obstacles that occur and expected needs so that improvements can be proposed (Maryani et al,. 2018).
e. Make system modeling using Use Case Diagrams, and Activity Diagrams UML (Unified Modeling Language) which has become the industry standard for visualizing, designing and documenting software systems (Setiawan, 2020).
f. Designing user interfaces using Visual Basic 6.0

3. RESULTS AND DISCUSSIONS

3.1 System Requirements Analysis

The system requirements consist of hardware and software requirements.

Tab1e 1. Hardware Requirements

Nama Hardware	Spesifikasi
Komputer PC/Admin	Core i3, RAM4, HDD 256GB
Access Point	TP-Link TL-WA801ND
Modem	20Mbps
Printer	Ink jet

Tabel 2. Software Requirements

Nama Software	Spesifikasi
Sistem Operasi :	*Windows* 10
Browser Aplication	Chrome
Database Aplication	*MySQL*

3.2 Use Case Diagram

Use case describes an interaction between one or more actors and the information system that will be created (Sukamto dan salahuddin, 2016). Broadly speaking, use cases are used to find out the functions and who has the right to use these functions in an information system.

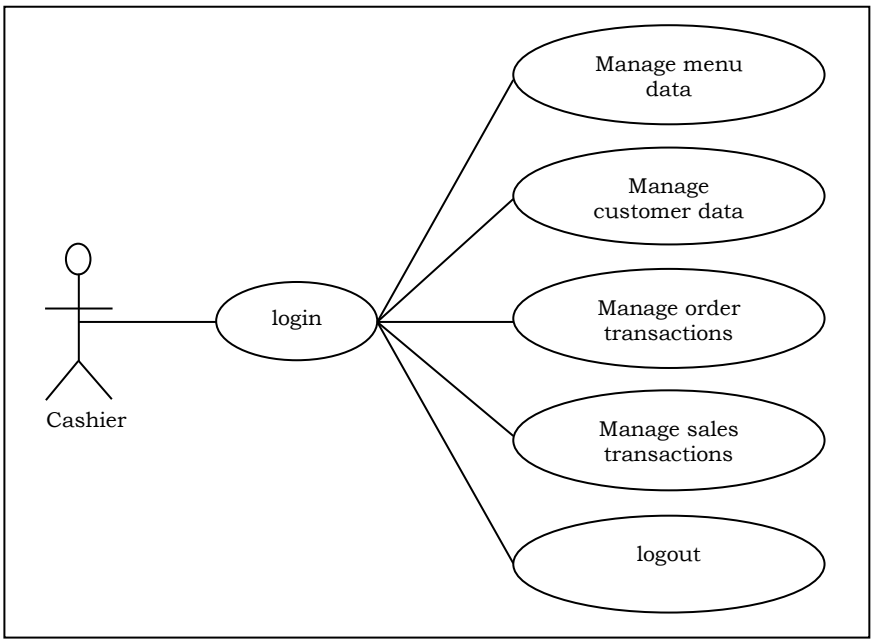

Figure 1. Use Case Diagram Cashier

3.3 Diagram Activity

Activity diagrams describe the activities of a system or business process or menus that exist in the software (setiaji & sastra, 2019).

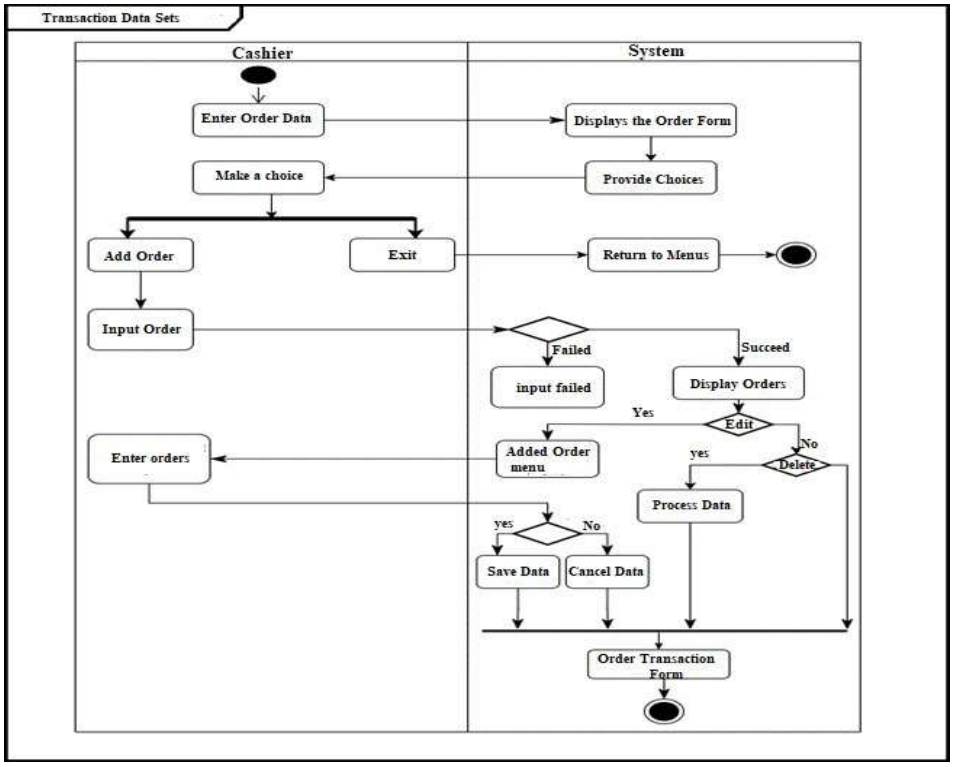

Figure 2. Activity diagram

3.4 Entity Relationship Diagram

The database design resulted in the mapping of tables depicted by Entity Relationship Diagram (ERD).

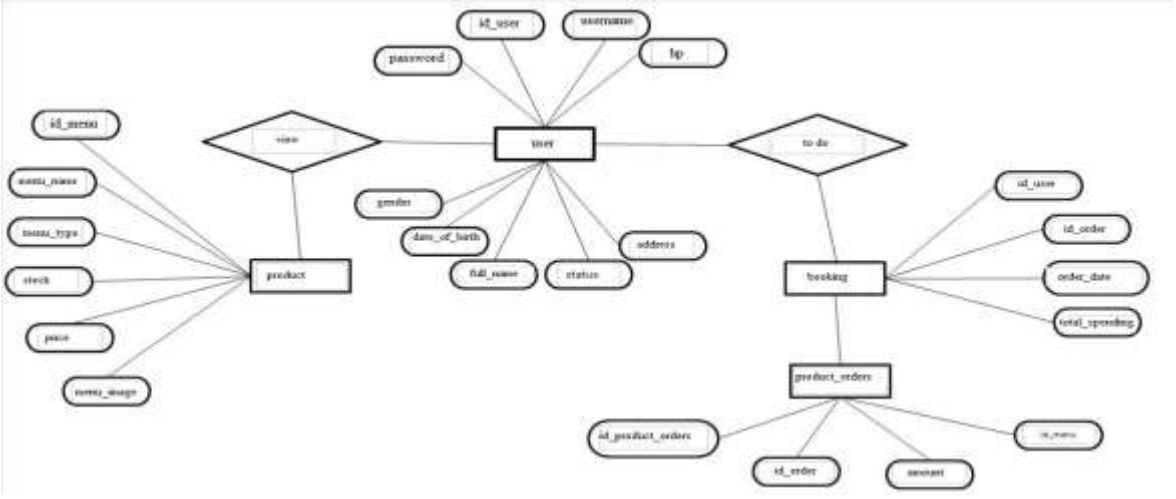

Figure 3. Entity relationship diagram

Application of Menu Ordering Information System Design in the picture above The database design produces a mapping of tables which are described by an Entity Relationship Diagram.

3.5 Logical Record Structure (LRS)

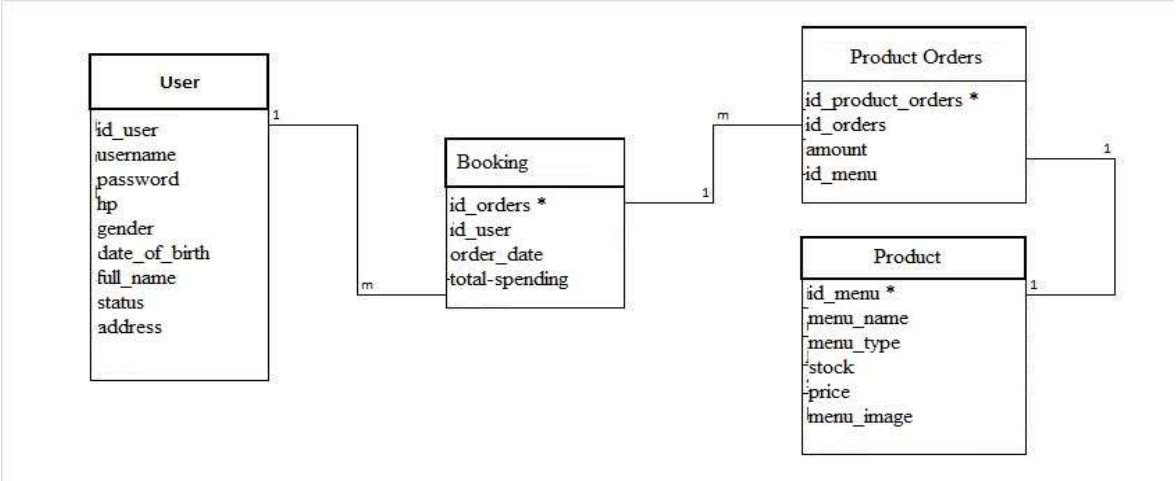

Figure 4. Logical record structure (LRS)

3.6 Testing the login form

Tab1e 3. hardware requirements

No	Test Scenario	*Test Case*	Expected results	Test Result	Conclusion
1	Empty the username and password, then click the "Login" button	*Username : empty Password: Empty*	The system will reject access Login and display the initial message "Your Username is Wrong! More formerly	According to expectations	Valid
2	Enter the correct username and password, then click the button "Login"	Username : Dien Aulia Password: 12345	The system accepts login access and goes to the home page	According to expectations	Valid

3.7 Implementation Results

Implementation is one of the stages of translating the design into an application using a programming language.

a. Login page

This page will be displayed before heading to the home page, the cashier must first login using the username and password.

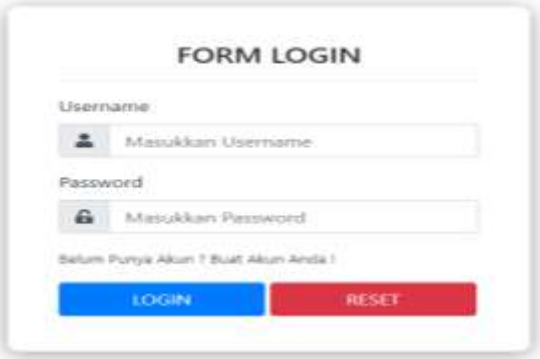

Figure 5. Form login

b. Homepage

The home page is the main page that displays various menus such as the Home menu, Menu List, Your Order, and Logout.

Figure 6. Homepage

c. Menu List Page

On this page there is a menu list that can be ordered by customers who come to the café.

Figure 7. Menu list page

d. Order Transaction Page

Figure 8. Order Transaction Page

4. CONCLUSION

This research resulted in a program on the Kawas Truck Café which has a menu ordering feature from customers, managing order transactions and presenting the desired report. The program created is a web-based program to make it easier for cashiers and cafe owners to manage and view computerized transaction records and reports and can be accessed using mobile phones or laptops connected to the internet network.

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