Author Notification
13 September 2019

Final Revised
7 November 2019

Published
27 December 2019

Information System Ordering Online Restaurant Menu At Hover Cafe

Rano Kurniawan[1], Ahmad Sutawan[2], Rizky Amalia[3]
[1,2,3]University of Raharja, Jl. Jenderal Sudirman No.40 Modern Cikokol Tangerang
e-mail: rano@raharja.info, ahmad.sutawan@raharja.info, rizky.amalia@raharja.info

To cite this document:
Kurniawan, R., Sutawan, A., & Amalia, R. (2019). Information System Ordering Online Restaurant Menu At Hover Cafe. *Aptisi Transactions On Management (ATM)*, *4*(1), 32-40.

DOI:
https://doi.org/10.33050/atm.v4i1.1082

Abstract

The rapid development of technology requires every business person to upgrade his technology to more sophisticated. Many business people have upgraded their systems to be computerized and even online, one of the business people is in the culinary field. The culinary field which is meant for example is the cafe One thing that can support the quality of ordering in a cafe is the ordering process. In the hover cafe the menu ordering system is still conventional, using a menu book. This of course can be a problem because the menu book used can be damaged or lost so that it can slow down the ordering process, not to mention if the customer requests additional orders, the waiter must come to the customer's table to record additional orders again.The method used in this research is the method of data collection, the method of observation, the method of interviewing, and the method of literature study conducted to obtain accurate data. Then the data are analyzed with SWOT to find out the company's weaknesses and strengths. In describing the flow of the system using UML (Unified Modeling Language) and PHP (Hypertext Preprocessor) as a programming language with a MySQL database as a database. Therefore we need a ordering media that utilizes information technology as a medium for selecting food and beverage (E-Menu) which can provide information about order menu details to facilitate customers in making and ordering food or beverage menus.

Keywords*: E-Menu, Web E-Menu, Hover Cafe*

1. Introduction

At present the development of technology has been increasingly fast, with the presence of new technologies can certainly facilitate human work. This renewable technology is present in various fields. One of them in the culinary field, for example is a cafe, a cafe is a business engaged in culinary that provides food and drinks so that customers get chilled needs with a relaxed and comfortable atmosphere. Cafes that have unique characteristics are likely to have a great attraction to customers, especially accompanied by delicious food and beverage menus.

At Hover cafe still has a few of problems identified including in terms of service and operational aspects in the process of ordering food or beverage menus. From the operational side of the problem identified is the absence of information about the available menu stock so the customer must ask the cafe waiter to get information related to food or beverage stock available, also there is no checkout menu so the waiter must read the list of selected order menus to confirm orders where it is less effective because it must take a lot of time.The Introduction should provide a clear background, a clear statement of the problem, the relevant literature on the subject, the proposed approach or solution, and the new value of research which it is innovation. It should be understandable to colleagues from a broad range of scientific disciplines.

The waiter must come to the customer to give a menu book to be immediately seen by the customer to place an order. This was felt to be less effective because it was feared that there would be a delay in delivering the menu book to customers when they came to the cafe, and there was an error in recording the list of orders the customer chose because it was recorded manually.

As time goes by, technology continues to grow so that human needs are also increasing, both personal needs or needs in the field of business. As with the hover cafe that currently has a conventional menu ordering system, it wants to be developed to be better to increase customer comfort, especially in terms of ordering.

Based on the background that has been explained, this study was conducted so that the information problem on the list of food and beverage menu choices can be given a solution to solve the problems experienced, so in this paper the author decides the title " Information System Ordering Online Restaurant Menu At Hover Cafe".

2. Research Method

2.1. Method of collecting data

In the data collection stage, the authors use 3 (three) approaches, including:

1. Observation Method

   In the method of observation the authors analyze the problems that exist by observing the source of data processing and collecting data from the parts related to the food and beverage menu ordering system in the form of documents, forms, notes and reports.
2. Interview Method

   In the interview method, a question and answer session was conducted directly with stakeholders to obtain data and information related to food and beverage menu ordering systems to understand what would be investigated in accordance with the research objectives.
3. Library Study Method

   Literature study method is done to support the interview and observation methods that have been done. Information gathering is done by reading and studying several books related to the theory discussed in this report, through sources from literature and the internet.

2.2. Analysis Method

In the system analysis method the writer uses the SWOT analysis method. SWOT is a method of analysis procedure that clarifies the condition of objects in four categories Strength, Weakness, Opportunity and Threat.

2.3. Design Method.

A good system in addition to having a good interface design (user interface), a system can also provide convenience for its users (user friendly). In this study, 2 (two) methods were used to support the design process, namely UML and Mock Up to describe the design of the program to be made.

2.4. Literature Review

Many research has been done on the E-menu application program in web-based restaurants and other related research. In an effort to design and refine this design a literature study needs to be done (literature review) as one of the applications of the research methods carried out, including the following:

1. This research was conducted by Tompoh, et al (2016) Informatics Engineering at Sam Ratulangi University, Manado with the title "Rancang Bangun Aplikasi Pemesanan Menu Makanan Restoran Berbasis Android" This study aims to design and build a restaurant food menu ordering application to help the restaurant in handling ordering food menu. By using the web-service menu ordering application on the android-based customer side (client) can be integrated with the web-admin application at the restaurant to manage bookings (server). [1]
2. This research was conducted by Widarda and Hakim (2014) Information Engineering Study Program STMIK ProVisi Semarang with the title "PERANCANGAN SISTEM INFORMASI PEMESANAN MENU BERBASIS WEB (STUDI KASUS : COFFEE TOFFEE TEMBALANG, SEMARANG)" One solution that can overcome these problems is by build a menu ordering information system that can provide computerized sales information data and menu listings. [2]
3. This research was conducted by Martono (2018) Informatics Engineering Study Program, STIKOM Dinamika Bangsa, Jambi with the title "Pembuatan Aplikasi E-Menu (Electronic

Menu) Berbasis Website Dan Android" The purpose of this research is to produce an electronic menu application that allows every part involved in business in the culinary field such as, administrators, waiters, chefs, cashiers and also buyers can be interconnected through one E-Menu application so that every transaction process that occurs from ordering to payment and sales reports at the end of the day can be processed by utilizing one and the same application that is built can be used by more than one restaurant.[3]

4. This research was conducted by Hendri (2016) Informatics Engineering Study Program, STIKOM Dinamika Bangsa, Jambi with the title "PROTOTIPE APLIKASI PEMESANAN MAKANAN (ELECTRONIC MENU) PADA RESTORAN BERBASIS ANDROID DAN WEB" This application functions to display menu information and order status as well as menu ordering tool, while for the back end user (Administrator, Chef and Cashier) this application has a function to view the order list and tools to change the order process for chefs, process purchase transactions and view transaction history for cashiers, and manage employee data, menus and discount for admins. [4]
5. This research was conducted by Chavan, et al (2015) Department of Computer, University of Pune Indapur, Maharashtra, India with the title "Implementing an Online Food Ordering System that Can Be Adjusted using Web-Based Applications". By making entire process of taking orders is automatically the load on restaurants device with a screen presenting the menu and accept user's input for order placing First waiter takes the order from customer. After taking the order, waiter should enter that order in system where PC was set up. At the kitchen information was displayed on screen.[5]

3. Results and Analysis

3.1. Analysis of Current Systems.

Research conducted by the author uses the SWOT analysis method to evaluate strengths, weaknesses, opportunities, and threats to the system that is currently running at Hover Cafe, which can be seen below.

Table 1. SWOT Analysis

***Strengh*t (S)**	***Weakness* (W)**
1. Can provide information on the list of available the menu. 2. Media lists the menu book using books so it is easy to carry and give to customers. 3.Daftar menu dapat memberikan informasi harga dari menu yang tersedia.	1. A list of menus that use paper that is prone to damage. 2. Reprinting is required if the menu book is damaged or changes or adding new menus.
***Opportunities* (O)**	***Threats* (T)**

1. The existence of the menu book can make it easier for customers to choose the menu you want to order. 2. There is information from the menus available in the menu book.	1. There is a possibility of an error in recording the menu that the customer ordered. 2. Service delays can occur to customers who want to order a menu when the cafe atmosphere is crowded.

3.2. Display of Proposed Restaurant E-Menu Application

1. Display Login Page On Customer Table

   On the login page, there is a table number and password input form according to the table number occupied by the customer in order to see the menu list provided by Hover Cafe.

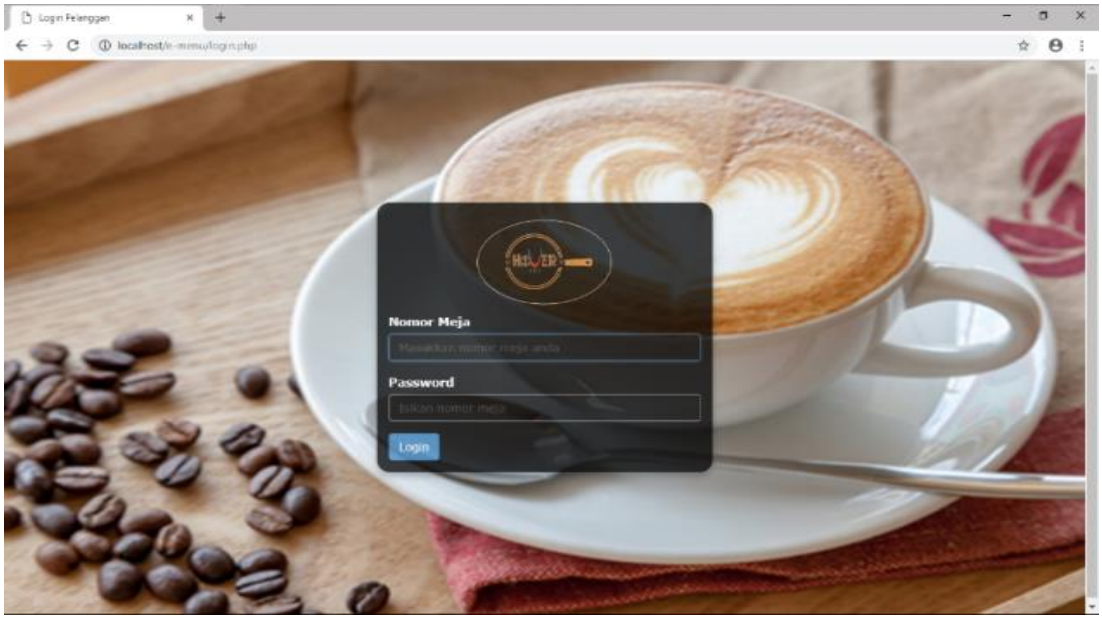

Figure 1. Display Login Page On Customer Table

2. Display of Proposed Restaurant E-Menu Application Homepage
   On the homepage the customer can see a list of menu categories available at Hover Cafe.

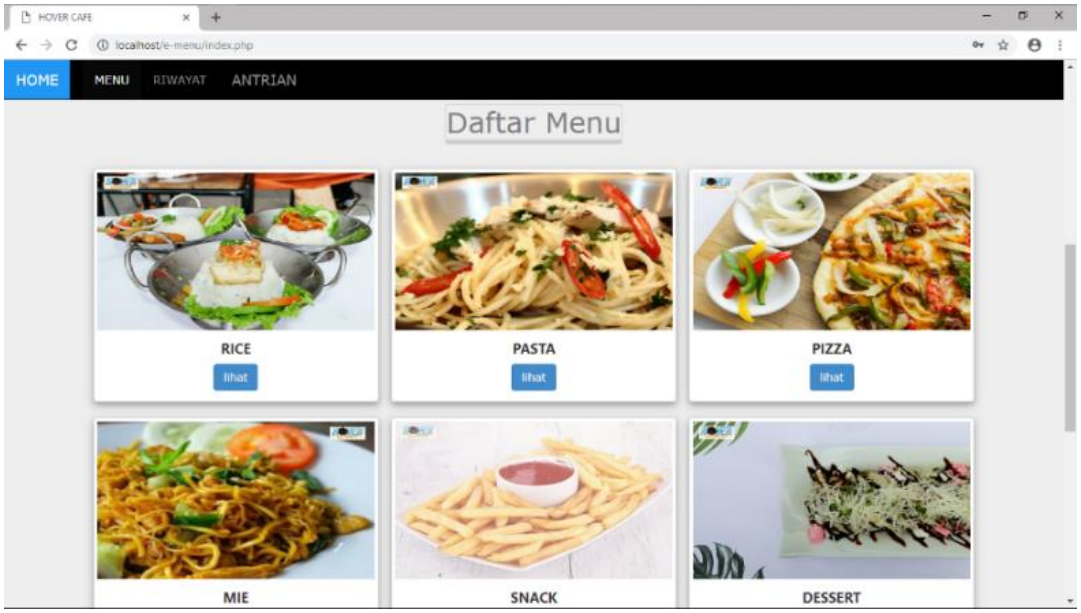

Figure 2. Display of Proposed Restaurant E-Menu Application Homepage

3. Display List the Menu page.
   In the menu display, you can see and select the menu available to order.

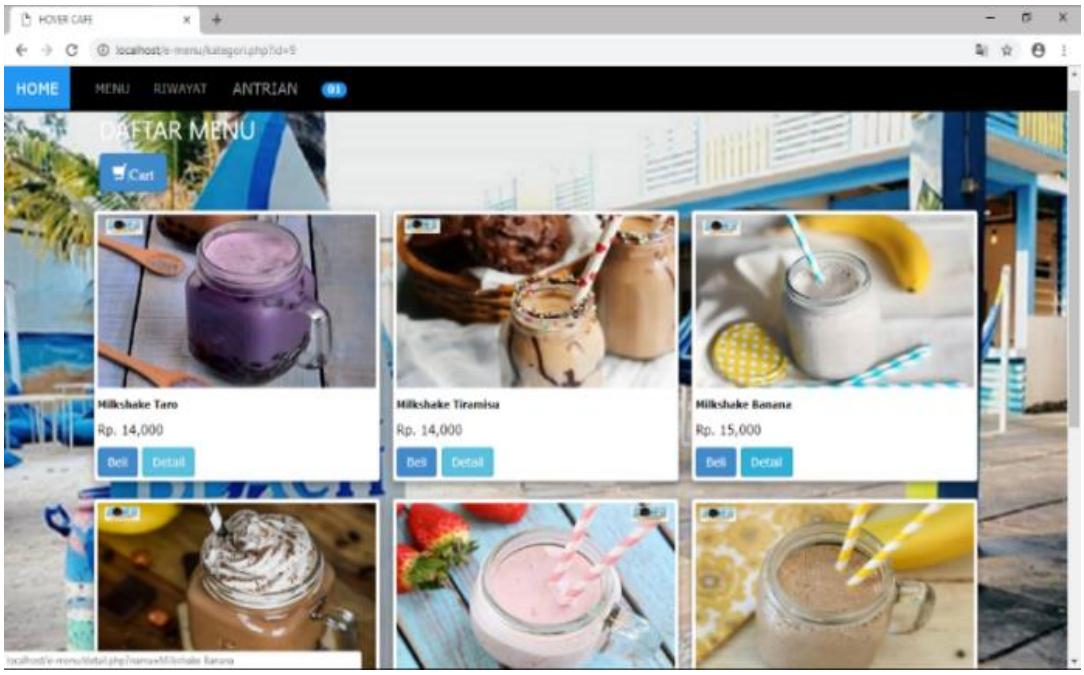

Figure 3. Display List The Menu Page

4. Display Page Details Menu
   On the menu detail page view the customer can see a description of each menu provided, the customer can also input the amount of the menu to be ordered.

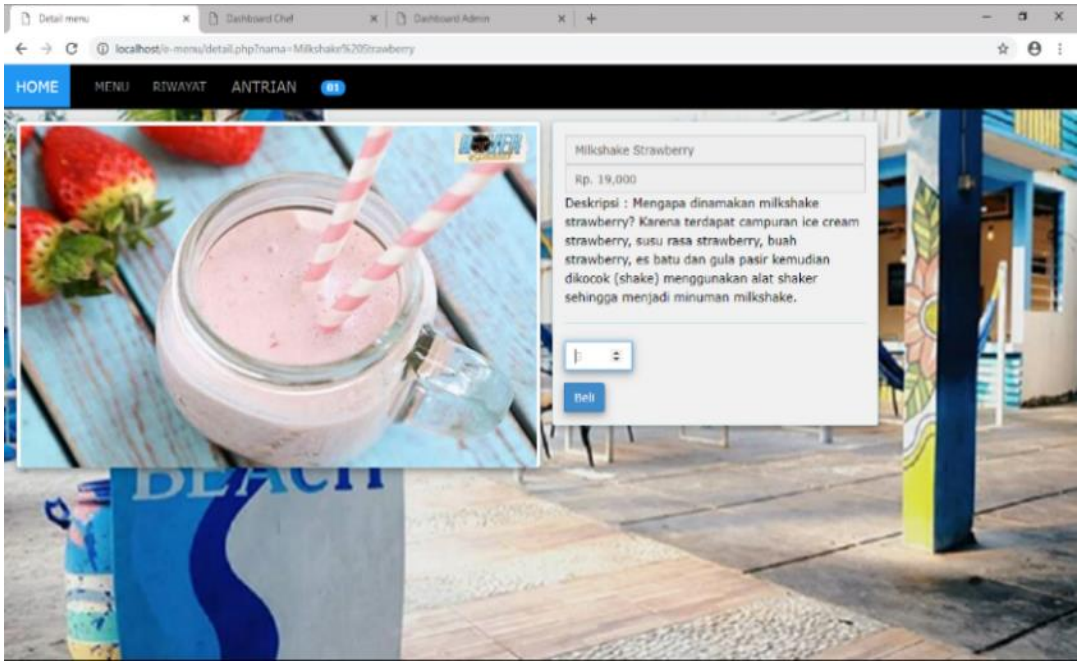

Figure 4. Display Page Details Menu

5. Shopping Cart Pop Up Display

In the shopping cart pop-up view, customers can see what menus have been ordered and also the total price of the menu ordered, besides that customers can also delete the selected menu to cancel the menu order or replace with another menu.

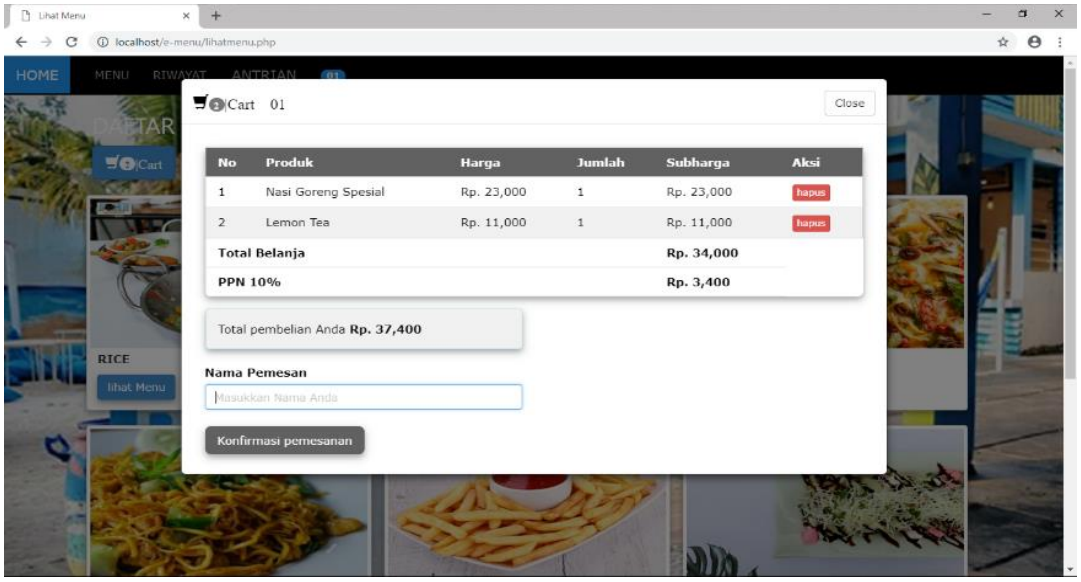

Figure 5. Shopping Cart Pop Up Display

6. Display of Order Confirmation Page

On the Order Confirmation page customers can only see the menu that has been ordered from the shopping cart data, and there is a button to send an order so that the menu ordered can be sent to the chef for order processing.

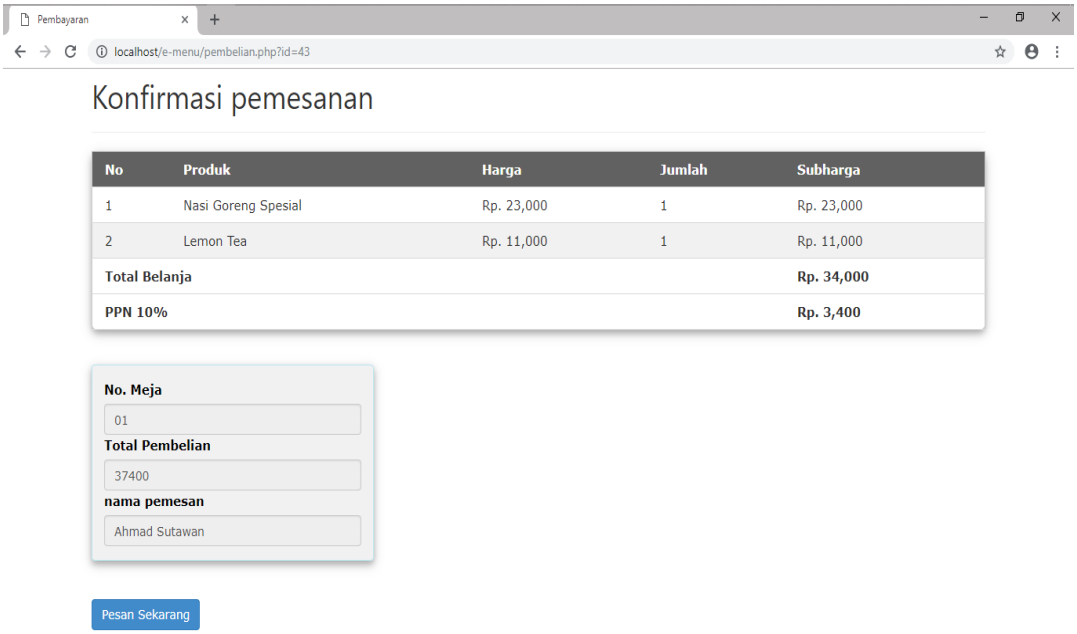

Figure 6. Display of Order Confirmation Page

7. Queue Status Pop Up Display

In the status queuing pop up view the customer can see whether the order has been processed by a chef or not.

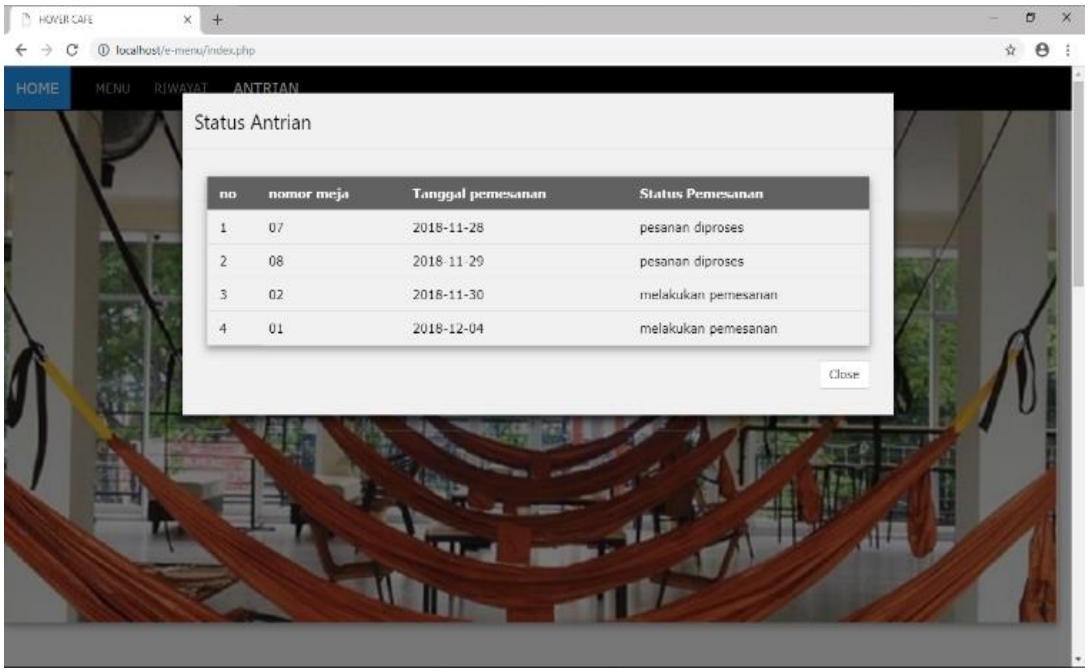

Figure 7. Queue Status Pop Up Display

8. Shopping History Page Display

In the shopping history page view, you can view the shopping history and see the memorandum of the total bill to be paid.

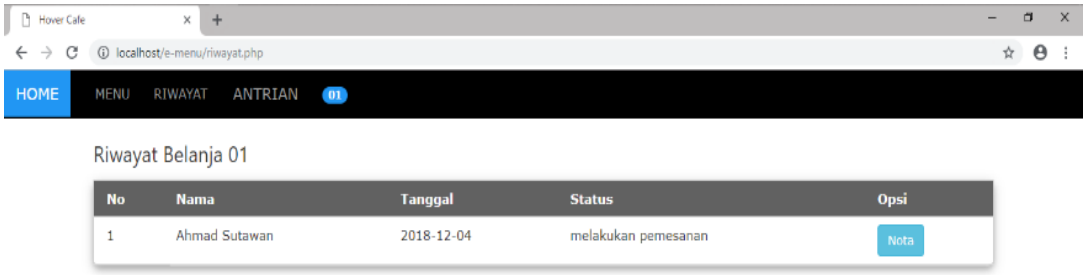

Figure 8. Shopping History Page Display

9. Page View Notes.

On the memorandum page, customers can see the invoice from the bill that must be paid to the cashier.

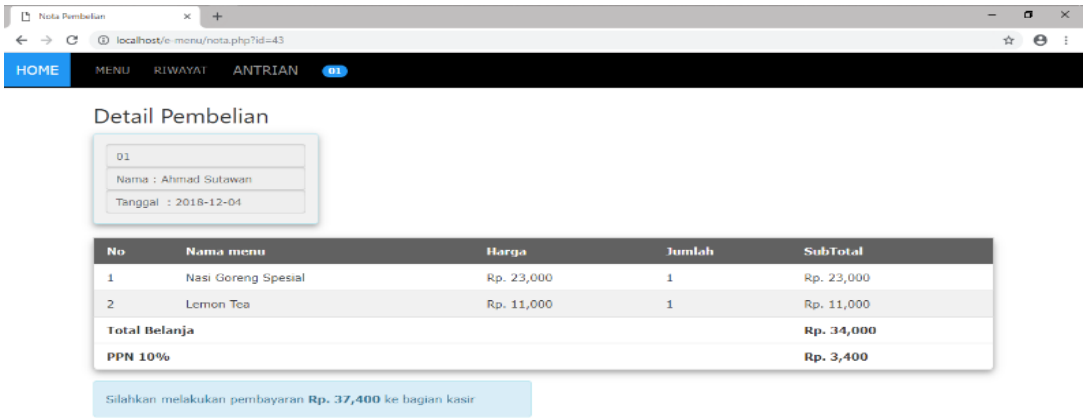

Figure 9. Page View Notes

4. Conclusion

Based on the research described by researchers in the chapters above, the following conclusions can be obtained:

1. E-menu Restaurant can be ordering medium that provides a container for the order data chosen by the customer into the shopping cart feature before checkuot to be processed to the chef.
2. With the E-menu restaurant customers can find out information from the menu list available by menu category to place an order.

3. By using the restaurant E-menu information system as a booking medium that can provide information about the available menu list, and is able to facilities customers in the ordering procces quickly and accurately.

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