

DESIGN OF ANDROID BASED E-MENU ORDER LIST ALGORITHM AND NOTIFICATION SYSTEM

Renan Prasta Jenie, Karyana Hutomo, Bram Kristanto Sutarsa, Philiep Andry, dan Marcelinus Kevin
IT Directorate of Bina Nusantara
Jalan K.H.Syahdan no.9
Jakarta Barat 11480
(021) 5345830 ext 2301

Abstraction - Restaurants have become a part of life in our society. Along with the development of the restaurant, the development of a menu which is one of the spearhead of the restaurant was also developed. Menu is no longer in paper form but also thrive in a digital form. These menus have limitations such as lack of interaction between users and inflexibility updating the data. Therefore in this paper, we discuss about our project which is the creation of e-menu. E-menu that is one of the digital form, not only used to display the menu but also to process the order process, from customer order to customer payment. We believe the future development of e-menu will be rapid. Along with excellence in flexibility of data updates and feature-feature that can be inserted POS in it.

Keywords : Restaurant, menu, E-menu.

I. INTRODUCTION

Restaurant is a place that provides food and drinks for its customers to earn money. Restaurant (Marsum, 1994) is an organized place or building that held a commercial service to all guests whether it be eating and drinking [1]. Food and beverages are ordered in general and the meal provided at the place, but is now evolving toward service delivery order and drive-ins.

Usually, the restaurant uses a menu that aims to facilitate the customers decide what to order. Menu is a list of foods, which is connected to cards, paper, or other media, where the food list was written. Menu means food that is available to subscribers (customers) they can choose and enjoy. But along with the technology, use of conventional

menu was considered no longer effective. To improve the performance of the menu, so we try to make the E-Menu is implemented on a tablet pc.

II. PROCEDURE FOR PAPER SUBMISSION

The methodology used in this study the E-menu system and POS are:

- Standard design uses style Roger S. Pressman [2]
- Design using UML 2.0 notation

And the research we conducted with the steps work as follows:

- Conduct data collection by conducting research in the form of interviews
- Perform data analysis (software requirements analysis)
- Making the screen design and the design of the system according to the results of the analysis
- Apply the design into the mobile screen
- Development
- Evaluation System
- System Implementation

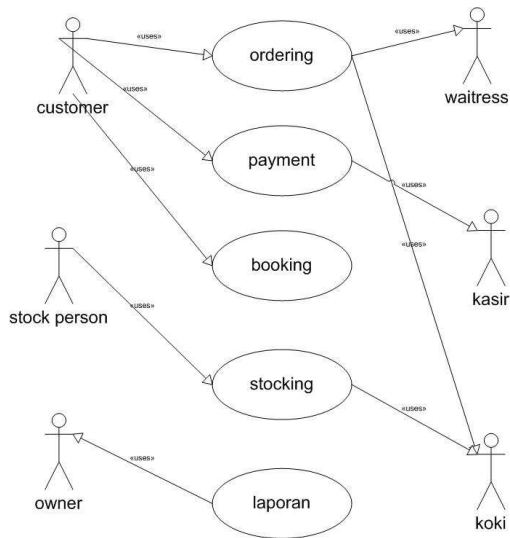
For system development, we use Java programming language that uses the Android API (Application Programming Interface), used for the mysql database, and SOAP (Simple Object Access Protocol) as a carrier of data from server to device and vice versa .

Renan Prasta Jenie is with the Bina Nusantara University, Indonesia (phone : 0812 919 3554; email:rjenie@binus.edu).

Bram Kristanto Sutarsa, Bina Nusantara University, Jl. Kebon Jeruk Raya No. 27, Kebon Jeruk, Jakarta Barat 11530. Phone: +6283812512512. Jurusan Teknik Informatika, Networking (e-mail: bram.sutarsa@gmail.com)

Philiep Andry, Bina Nusantara University, Jl. Kebon Jeruk Raya No. 27, Kebon Jeruk, Jakarta Barat 11530. Phone: +628999347583. Jurusan Teknik Informatika, Networking (e-mail: neo_nightmare_kun@yahoo.co.id)

Marcelinus Kevin, Bina Nusantara University, Jl. Kebon Jeruk Raya No. 27, Kebon Jeruk, Jakarta Barat 11530. Phone: +628998205039. Jurusan Teknik Informatika, Networking (e-mail: marcellinus.kevin@hotmail.com)



Gambar 2.1 Use Case

Use Case Explanation:

Customer has the action:

- Order the customer to choose the menu and forwarded to the system
- Pay the customer making a payment
- Book of the customer to choose the table number

Stock Person has the action:

Stocking the stock-person to input stock and disable menu

Owner has the action:

- Report the owner receives sales reports from the system

Waitress has the action:

- GetOrderCustomer the waitress received an order from customer
- GetOrderKoki the waitress received an order from the chef to deliver food to the customer
- SendBill the waitress received a bill from customer requests and deliver the bill to the customer table

The cashier has the action:

- Billing is the cashier got a total order of the customer and then calculate the total price of the order

Chef has the action:

- Cook the chef to receive customer lists from the menu which will then be cooked
- Notify the chef to receive stock updates from the system

III. SUMMARY

Making E-Menu application is intended to address the problems that exist in a variety of restaurants and cafes, as efficiency is needed at every restaurant on the process of ordering food, recording orders, process payments and other. E-Menu is made based on Android that can be effective and

efficiency in the existing restaurant's system. Given the technological developments that have been growing rapidly, many restaurants that use smart devices as the ordering process and the recording of the order menu. However, restaurant or cafe is still limited to the menu listing order.

And with the use of existing systems, there are still inefficient in the restaurant system. Given both restaurants and cafes are still few who use the tablet as a restaurant menu system and POS system. E-Menu can now be developed to cover the shortfall that exists on the system that have been implemented now, because the E-Menu and our POS uses such algorithms, and implementation of SOAP to transfer data from the server into tablets, or vice versa.

Thus, the speed and affectivity E-Menu will be able to replace the existing system in the future.

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