

Development Booking Application Menu Foods as a Means of Improving Culinary Sundanese-Based Web On Pandemic Era Covid

Case Study: Restaurant and Cafe Parantina Sukabumi

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ABSTRACT

Food ordering applications are currently widely used in serving customers to order food. Especially at this time of the COVID-19 pandemic era which has limited our behavior towards various activities. Including in the case of ordering and purchasing for now it is recommended to use technology to avoid human encounters that can lead to crowds. In the current pandemic era, the government recommends the use of technology in daily activities, including transactions. This application that will be built aims to make it easier for buyers to order food, in this case, Sundanese food (West Java). It is hoped that with this application, culinary tourism for Sundanese specialties can be better in terms of sales and promotion. By using the application in serving orders, buyers can easily order Sundanese food from anywhere and anytime. This also makes it easier for existing restaurants and cafes so that these services can be served better and respond quickly. This application will work with several restaurants and cafes in the Sukabumi and surrounding areas. The application that will be made is a website-based application.

Keywords: Applications, Culinary Tourism, Resto and Cafe

1. INTRODUCTION

Along with the times, information technology is growing rapidly from time to time. With the development of information technology, it has a significant influence on life in various fields. The benefits of information technology obtained are in the form of convenience in conveying information and can speed up information conveyed. With the support of hardware and the right software configuration will produce power in a relatively faster process and more accurate results. Besides, the way of presenting and processing data is also growing rapidly. To provide appropriate information for the user, the data needs to be selected and repackaged. Easy access to various sources of information encourages universities to provide information in electronic form. In the business world, both goods companies and service companies are required to be able to make various

innovations in order to attract buyers or customers. The restaurant and café business is one example of a business that has the opportunity to apply computer and android-based information technology to its business processes. In this business field, it takes speed and accuracy of data from customers who want to choose, also order food menus so that their orders can come quickly, in the right amount and also customers can feel satisfied.

The restaurant business in Sukabumi in particular and Indonesia in general, has been growing and growing. A wide variety of food is the main attraction in every restaurant compared to food served at home. In the case study of this research is Parantina restaurant which is located on Jl. South Ring Line number 28, Jayaraksa, Sukabumi City, West Java, where during a pandemic like this, it certainly has an impact on the decrease in the number of customers

who come to the restaurant due to the pandemic. One of the innovations that can be implemented during this pandemic is to create an application that is used to order food at this restaurant. The business process the waiter approaches the visitor and records the order on a piece of paper then goes to the kitchen to process the ordered food. The process is efficient for small restaurants and few diners. However, problems will arise if a restaurant has a large space or many visitors. As well as reporting income, the leadership must wait for the recording process to complete. This application is expected to there also will assist in Sukabumi culinary becoming better during this pandemic.

2. METHOD

2.1. Method of collecting data

Data collection methods are carried out by:

1. Literature Study

The study of literature that research activities with the method of data collection is done by way of searching for libraries that support the research that will be done. The library can be in the form of books, articles, final reports and so on.

2. Interview (interview)

Interviewing is a method *pangumpulan data* by way of doing question and answer directly to the relevant parties regarding the data that can be used to help build the application.

2.2. Development Process Model

In the development of the menu reservation application at this *parantina* restaurant, the author uses a prototype model. According to Abdul kadir (2003)^[1] "a prototype is a version of a potential system that provides an idea for developers and potential users, how the system will function in its finished form".

According to Raymond McLeod (1998)^[5], "Prototype is defined as a tool that provides ideas for makers and potential users about how the system functions in its complete form, and the process to produce a prototype is called prototyping". Prototyping is the process of creating a simple model of software that allows the user to have a basic overview of the program as well as perform initial testing. Prototyping provides facilities for developers and users to interact with each other during the manufacturing process, so that developers can easily model the software to be made.

The stages in prototyping are as follows:

1. Identify needs

The customer and developer together define the format of the entire software, identify all requirements, and outline the system to be built.

2. Build prototypes

Build prototyping by making temporary designs that focus on serving to customers (eg by making input and output formats).

3. Evaluation of prototyping

This evaluation is carried out by the customer whether the prototyping that has been built is in accordance with the customer's wishes. If it is appropriate then the fourth step will be taken. If not, then the prototyping is revised by repeating steps 1, 2, and 3.

4. System coding

In this stage the agreed prototyping is translated into the appropriate programming language.

5. Testing the system

After the system has become a ready-to-use software, it must be tested before use. This test is done with White Box, Black Box, Base Path, architectural testing and others.

6. System Evaluation

The customer evaluates whether the finished system is as expected. If it is, then the seventh step is done, if not then repeat steps 4 and 5.

7. Using the system

Software that has been tested and accepted by the customer is ready to use.

2.3. System Approach Model

The information system approach method that will be built by the author is an object-oriented approach and documentation model using UML (Unified Modeling Language). Object Oriented Approach Object-oriented programming (OOP) is an object-oriented programming paradigm. All data and functions in this paradigm are wrapped in m classes or objects. UML (Unified Modeling Language) is a language based on graphics or images for visualizing, specifying, building, and documenting an Object Oriented-based software development system, Brett McLaughlin (2007) ^[4]. The diagrams used are use

cases, activity diagrams, sequence diagrams, and class diagrams to define every detail of the process.

3. RESULT AND DISCUSSION

System design is a stage of the system development cycle which is defined from functional requirements and preparation for implementation design that describes how a system is formed. The design of this system aims to map every system requirement, so that the development process can run well. System design is a phase where a design expertise is needed for computer elements that will use the system, namely the selection of equipment and computer programs for the new system. Raymond McLeod (1998)^[5] Based on the analysis in the previous chapter, the data management procedures at this Resto & Café have changed.

These changes relate to the use of the system to process transaction data by employees. The design includes use cases, activity diagrams, sequence diagrams and class diagrams that can explain the flow of data that is processed to produce the desired information.

3.1. Use Case Diagram

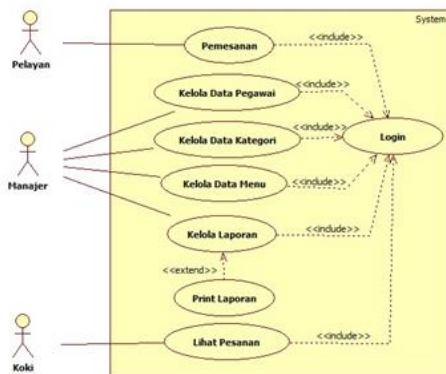


Figure 1 Use Case Diagram

3.2. Activity Diagram

3.2.1. Activity Diagram Login

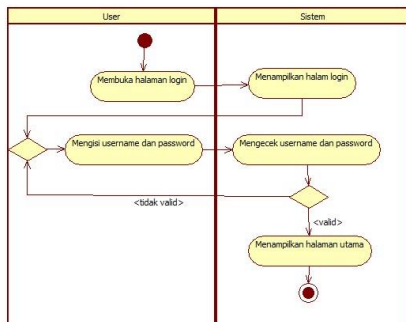


Figure 2 Activity Diagram login

3.2.2. Activity Diagram Booking

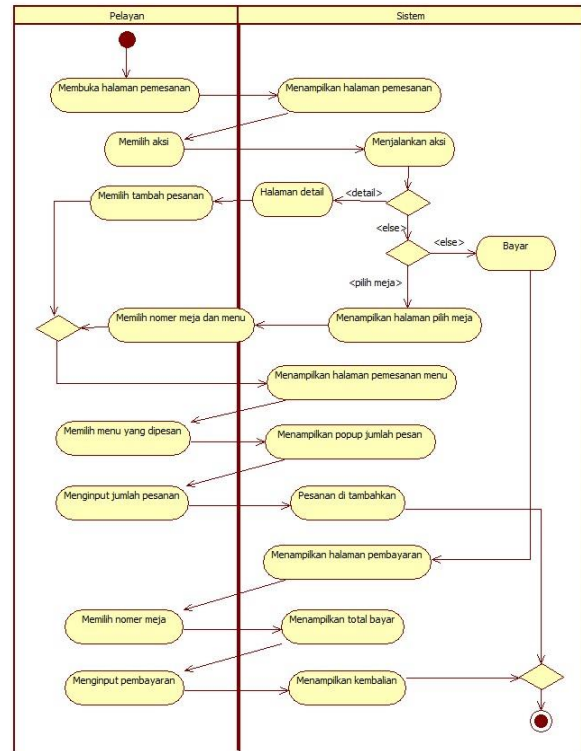


Figure 3 Activity Diagram Booking

3.3. Sequence Diagram

3.3.1. Sequence Diagram Login

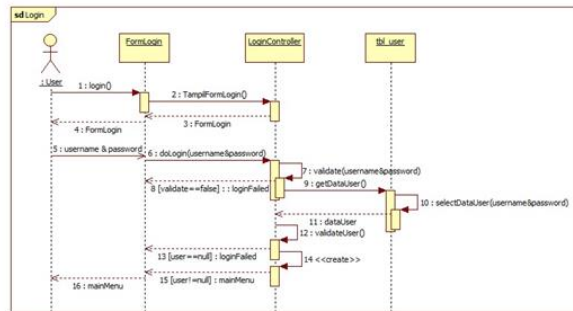


Figure 4 Login Diagram Sequence

3.3.2. Order Diagram Sequence: Add Order

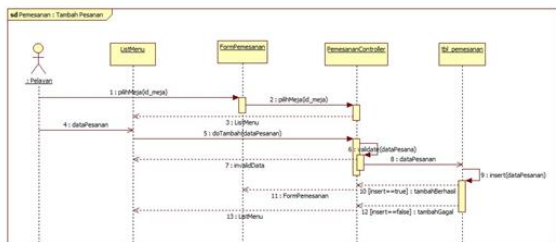


Figure 5 Order Diagram Sequence: Add Order

4. IMPLEMENTATION

4.1. Login Page

The login page contains a form to enter the menu reservation information system. In the login page there is input that must be entered by the user to verify access rights to this information system. The input that must be entered by the user is a username and password. As seen in the image below:



Figure 6 login Page

Information:

If login fails, the following screen will appear:



Figure 7 login Fail

If the login is successful, the following page will appear:

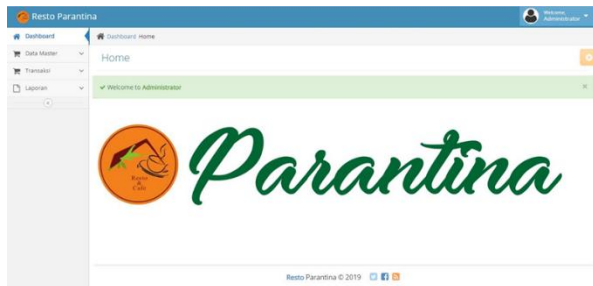


Figure 8 login Successful

4.2. Employee Data

Employee Data Management Process. The process of managing employee data includes adding data, changing data and deleting data. This menu can be accessed when the user selects Master Data. The initial display is as follows:

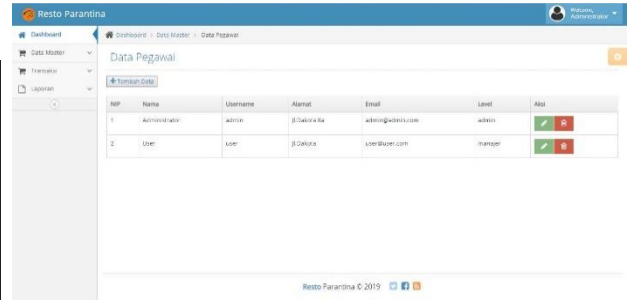


Figure 9 Employee Data

4.3. Order Process

The ordering process includes add orders, order details and payment. This menu can be accessed when the user selects Transaction. The initial display is as follows:

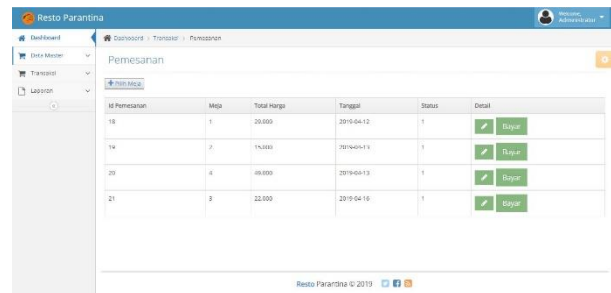


Figure 10 Order Process

For the process of adding an order, the user must first select a table by clicking the button () above the table. As for when choosing a table are as follows:

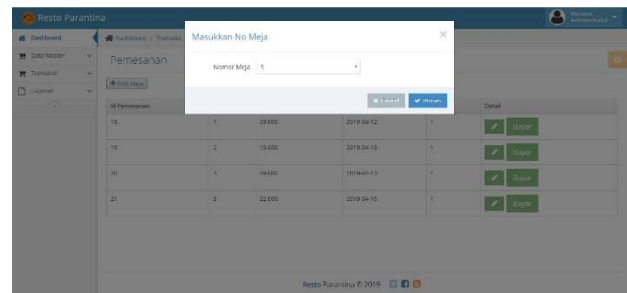


Figure 11 Order Process Detail

After selecting a table, the user will go directly to the menu select page. To order the menu, the user only needs to click on the message, it will immediately appear in the order table on the right.

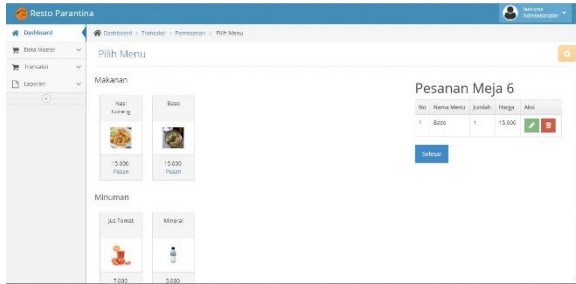



Figure 12 Menu Selection

To process the order details, the user clicks the button () next to the data to be seen in detail. The order details display on the data that will be viewed in detail is as follows:

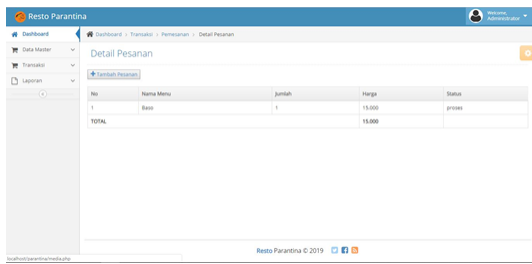



Figure 13 Detail Menu Selection

To process the payment, the user clicks the button () next to the data to be paid and will go directly to the payment page. the payment display is as follows:

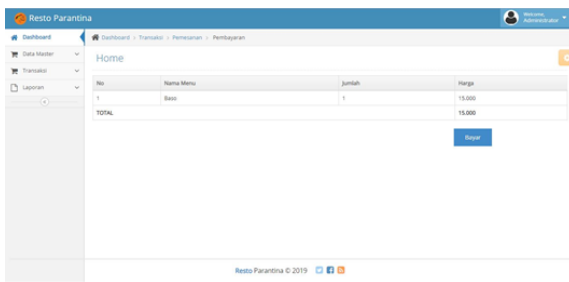


Figure 14 Payment Page

The View Order process only includes changing the order status. This menu can be accessed when the user selects Transaction. The initial display is as follows:

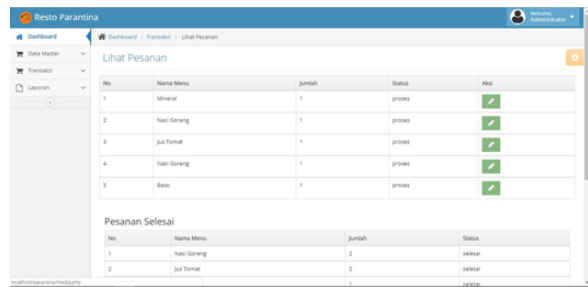



Figure 15 Booking View Page

For the process of changing the status of the order, the user clicks the button () which is next to the data whose status will be changed and a confirmation of the change will appear. the confirmation message when changing the order data is as follows:

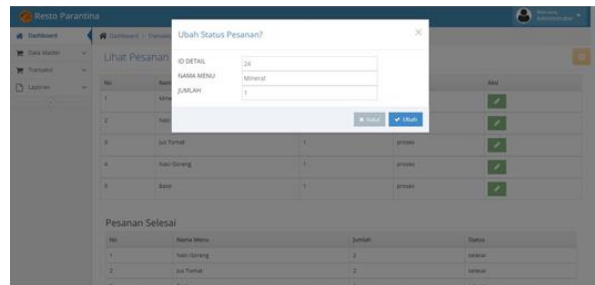



Figure 16 Confirm Order Status Form

Report processing only includes printing reports according to the date entered by the user. This menu can be accessed when the user selects Report. The initial display is as follows:



Figure 17 Report Page

To print the report, the user clicks the button (). The display of the data form that will be printed is as follows:

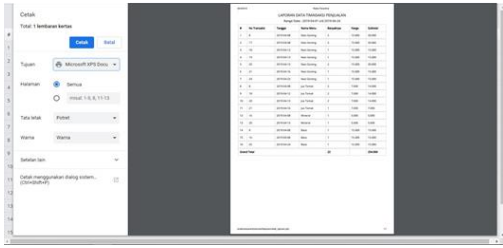


Figure 18 Print Report Page

5. CONCLUSION AND SUGGESTIONS

5.1. Conclusion

The conclusion of the practical work report entitled "Web-Based Menu Reservation Application Developer at Restaurant & Cafe Parantina" is as follows:

1. This information system can be a tool for users in business processes where the receipt of orders is connected directly to the kitchen so that it speeds up and simplifies the ordering process.
2. Users are also helped to process employee data and menu data.
3. Users are also easier to view sales and revenue reports every day without having to wait long.

5.2. Suggestion

In the Development of Web-Based Menu Reservation Applications at Resto & Cafe Parantina, there are still many things that can be developed, such as:

- 1 Applications made can only report on sales management without any management of reports on the purchase of food raw materials.
- 2 Applications made can only be ordered when the customer is in the restaurant, in the future it can be developed for online bookings.
- 3 The addition of the next feature is expected that the user can login only with a fingerprint scan.

Thus the suggestions that the author can give, hopefully these suggestions can be used as input that is useful for writers in particular and for the wider community in general.

AUTHORS' CONTRIBUTIONS

The author confirms the sole responsibility for this manuscript fully as a sole author for the following: study conception and design, data collection, analysis and interpretation of results, and manuscript preparation. the author read and approved the final manuscript.

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