Information System of Muara Badak Village Culinary Sales Using Laravel Web-Based

Trikoyat
Software Engineering Technology, Agriculture Polytechnic of Samarinda 75242, Indonesia
trikoyat03@gmail.com

Yulianto *
Software Engineering Technology, Agriculture Polytechnic of Samarinda 75242, Indonesia
yulianto@politanisamarinda.ac.id
Corresponding author

Eny Maria
Software Engineering Technology, Agriculture Polytechnic of Samarinda 75242, Indonesia
enymaria@politanisamarinda.ac.id

Abstract—The world of technology is developing very fast. In line with this, the fast-growing business growth and development is driven by various supporting factors including promotions and advertising boards. As one of the villages, Muara Badak Village has many tourist attractions to visit this village. One of the biggest attractions is the culinary field and beach tourism, so there are so many culinary places that are very diverse. Therefore, the purpose of this research is to utilize existing knowledge in college to build an application, namely information media that provides sales services through culinary applications by looking at newcomers and tourists who do not understand the culinary specialties of Muara Rhino Village and view an environment that can be free. from the Covid-19virus through online buying and selling so researchers are trying to make the application. The results of this study are the birth of an application called MB FOOD not only to take advantage of the application but how to make a bridge between consumers and sellers to make it easier to connect people around, by looking at problems and technological developments now how to find ideas that are useful for the community. It is hoped that this research can be used as a reference for the next time and the progress of future technological developments by looking at people's current income so that the government can see people's income and participate in developing the MB FOOD application to help each other and learn together further technological developments.

Keywords— Culinary, Web and Framework Laravel, PHP, MySQL.

I. INTRODUCTION

Information systems have become an urgent need in various business fields. The need for information today has become a very important commodity in winning the competition in business. Without realizing it, the development of information technology and the need for information systems has become the main resource for business people who are no less important than resources. As one of the villages, Muara Badak Village has many tourist attractions to visit this village.

One of the biggest attractions is in the field of culinary and beach tourism, so there are a lot of culinary places that are very diverse. Starting from the typical culinary place of Muara Badak to other culinary specialties, everything is in this village. The number of culinary places in Muara Badak causes tourists and culinary seekers to often get confused when they have to decide which place to visit.

At this time, usually culinary lovers will try to directly find a culinary place that looks interesting or will visit recommendations from other people. Currently, there are actually many culinary places in Muara Badak Village that have used information technology to promote the place, from using social media to creating a special website to introduce the place. This situation will make culinary seekers in Muara Badak have to try more to get information about the culinary places they want to visit, because each place has its own medium in introducing its place.

Seeing the similarity in the need for information on culinary places in Muara Badak, a media can be formed that can be a forum for culinary seekers and culinary place managers to interact and exchange information about culinary places, and can participate in providing information to each other. One of the aims of this was to make it easier to access food ordering. Therefore we need a way so that information can be seen more easily. This is what prompted the author to create a web-based software model and prototype to facilitate culinary place owners and visitors to participate in providing information about culinary places in Muara Badak Village.

Nowadays we hear the word social distancing (social restrictions) are becoming familiar in our society lately. The cause is the occurrence of the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) epidemics. The spread of the virus that causes the Covid-19 disease has made the people of Muara Badak carry out social restrictions as an anticipation of transmission. Here the researcher is moving to create an online-based culinary application in Muara Badak Village for food delivery services, guided by the rules of social distancing, so people are not allowed to meet each other. face to face directly.

Based on the background of the problems that have been described previously, the authors try to formulate the main problems as How to make the information system, How to make it easier for tourists from Muara Badak Village when looking for culinary places online.

How to open business opportunities for many people in starting a personal business. In order for the research in this final project to be more focused and easier, it is necessary to limit the problem, as The application designed only sells the typical culinary of Muara Badak Village. The design of the information system only makes payments via transfer aims to maintain a distance from the Covid-19 virus. The application program used is PHP and MySQL. The direction or purpose is to get the results of the research, as Can find out how to make an information system design application. Providing sales orders through culinary applications that are easy and fast for tourists and the local community. Providing online culinary services to the public for safety in anticipation of the current Covid-19 pandemic.

II. LITERATURE REVIEW

A. Study of Literature

This research was conducted inseparable from the results of previous studies that have been carried out as material for comparison and study. The research results that are used as comparisons cannot be separated from the research topic.

1. According to Immah Inayati, M.Nur Hidayatulloh and Made Kamisutara, 2015 entitled a web-based food ordering application, namely the development of the world of technology is running very fast. In line with this, human needs, especially in the business sector, are also growing. one of them is R.M. Lesehan Divine Blessings. This restaurant is a restaurant that has many customers.

2. Fauyhi Eko Nugroho, 2016 in his journal entitled Designing an online sales information system, the Tokoku case study, is an E-commerce method, which is one of the developments in technology and the internet. That is an internet service that is used for buying and selling online. E-commerce or electronic commerce is the distribution, purchase, sale, marketing of goods and services through electronic systems such as the internet or television, www, or other computer networks. Khairus Suhada Danuri, Fajri Profesio Putra, 2017 in terms of starting a business Technological advancements encourage the growth and development of the trade, business and marketing sectors. The high success rate in trading is driven by various supporting factors including promotion and advertising. Through proper promotion and advertising, the culinary trade can grow well. Utilizing technology through online culinary and restaurant promotion applications can be the right promotional media.

3. According to Santy Permata Sari, 2020 with the title strategy to increase sales in the digital era Along with the changing times, consumption behavior enters a new phase, especially in the technology era. It's hard to guess what products or services are in demand. Even the model or style of consumption changes, making things even more difficult. Of course this impact, already felt. The number of shops, malls, supermarkets that are closed is proof of the digital era.

4. Strategy Research conducted by T. Prasetyo Hadi Atmoko, 2018 entitled a marketing strategy to increase sales volume at Cavinton Hotel Yogyakarta, namely this study uses a qualitative descriptive method with SWOT analysis to take advantage of opportunities and maximize strengths, reduce weaknesses and avoid threats.

5. By looking at the current situation in covid 19, a researcher named A.A Manik Pratiwi, 2020 with the title of the role of social media in increasing online sales during the Covid-19pandemic, namely the informants who were questioned were tourism workers who were forced to be laid off and changed professions to become online traders. Analysis of the data used is thematic analysis (thematic content analysis).

6. According to Ashinta Sekar Bidari, 2020 in his journal entitled legal counseling about opportunities and threats for consumers in Indonesian online transactions, technological developments have brought a shift in people's culture, one of which is in business activities. The role of the internet as a medium for business actors to run a business. The progress of online business has brought changes in the way business actors sell their products and changes the way consumers buy a product.

7. According to Meby Lesnanda and Yohanes Aryo Bismo Raharjo, 2019 in their journal entitled Sales Website Design at Luxmoire Online Shop With Laravel And Bootstrap Framework, Utilization of a website in the business world to market products or servicescan be a mainstay weapon in winning business competition. Websites can alsoused as a means to improve service to consumers. ApplicationThis Online Sales is one of the applications that are needed in the business world, especially related to technology issues.

B. Theoretical

1. Information System

In the current era of globalization, the development of information systems, there are many information systems in organizations that want to reach the information system stage quickly, relevantly and accurately. a set of procedures or stages consisting of components or elements that are interconnected to achieve certain goals (Ramadhani, I. A, 2018). The rapid growth of science and technology, especially in the field of computers in every aspect of life and the use of computer technology and communication technology, has resulted in an incorporation of information systems that are currently easy to access without time and

distance limitations using the internet network. The sales or business model is also affected by the development of science and technology, especially with the rapid growth of internet users in various parts of the world, especially developing countries. One of the businesses that has become the latest trend in society is in the field of online shopping. So far, UNIMUDA Sorong Campus Mart Store is still doing promotions and sales through word of mouth or in the form of brochures, so the range of promotions and sales is still limited and cannot be extended to several areas.

2. Business Management

In recent years, technological advances have become icons of world change. In almost all sectors of life, changes are significant, including in the marketing sphere. Consumption patterns are difficult to predict, this is indicated by many small and large companies going out of business. The role of technology has become an addiction for changes in consumption attitudes and behavior (Rohimah, 2019; Alriani, 2014; Kusniadji, 2018). Humanity flocked to welcome it as a sign of democracy of consumption. What does it mean? That is, it is consumers who determine how entrepreneurs create products, provide services, set prices, provide facilities, and so on. In essence, technology has become a vehicle for consumers to take the freedom to consume. Thus, it is consumers who influence how entrepreneurs make policies. This evidence is reinforced by the fallen world's big companies, namely Nokia, Blackberry, Lehman brothers, Kodak, MGM, Marvel Entertainment, and so on. Marking the era of consumers in power, anyone from entrepreneurs who do not follow their behavior changes will be left behind (Nugraha & Wahyuhastuti, 2017; Fatimah, 2017).

3. Marketing

According to Hutama and Subagio (2014, p. 3) marketing is a series of activities starting from the process of making, communicating, introducing and offering transactions that have value for consumers, clients, partners, and society in general. Meanwhile, service marketing according to Ali in Karnelis (2017, p. 721) is a social process where individuals and groups get what they need and want by exchanging valuable services. In terms of management, marketing management is an activity of analyzing existing phenomena, both natural and human engineered, which pays more attention to the characteristics, quality, and interrelationships between activities.

4. Web Server

Web server is software that provides data services that function to receive HTTP or HTTPS requests from clients known as web browsers and send back the results in the form of web.

5. Framework

The author of Aminudin 2015 entitled How to effectively learn the Laravel framework Laravel explained that the PHP framework released under the MIT license was built with the MVC (model view controller) concept. Laravel is an MVP based website development written in PHP designed to improve software quality by reducing development costs Laravel is released under the MIT license with source code provided by Github, just like any other framework, Laravel is built with MVC (Model-Controller). - View), Laravel is also equipped with a command line tool called "Artisan" which can be used for bundle packaging and bundle installation via the command prompt. It can be said to be a web page. Controller, Controller is the part that bridges the model and view. Eloquent ORM, is an advanced PHP implementation that provides internal methods of the "active record" pattern that resolve issues with database object relationships.

III.   RESEARCH METHODS

A.   Research procedure

In picture 1 display shows the research procedure is the steps used to collect data to answer the research questions posed in this study, with a discussion of the location and subject of the research population/sample, research design (preparation stage, implementation stage and reporting stage) and justification.
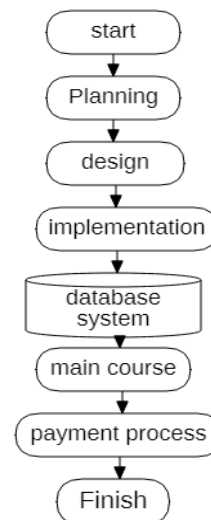
Picture 1. Research procedure

In picture 1 display shows Explanation of research procedures:

1. Planning

The initial planning process determines the things to be achieved at this stage the researcher makes an information system idea to determine the various stages needed to achieve these goals.

2. Design

The design is a series of preparations from the plan to make the stages of the plan, namely the researcher begins to create a culinary logo looking

for culinary locations to record the culinary names and design the application logo.

3. Implementation

After doing a series of designs, the next stage is implementing, say implementation or implementation. as an action to carry out the plan that has been made.

4. Database System

Data or information that has been obtained previously, then stored in a media, namely Database researchers will store data from the results of implementation and design that will be input to the application.

5. Main menu

After collecting the database, then making the main menu to output or display the data that has been provided here, the researcher uses the Laravel framework to start designing the main menu display.

6. Payment Process

Researchers are starting to rethink how well the payment process is done and it has been decided by researchers that the payment process will be carried out via transfer to carry out health protocols in the current pandemic.

B. Research Tools

In picture 2 display shows Application design uses several software that utilizes direct computer capabilities to perform a task that the user wants which can produce input and output generated from the design as for some of the.
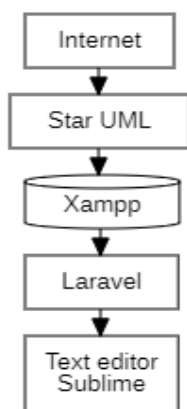
Picture 2. App design

In picture 2 displays shows Explanation of app design:

1. Internet

Researchers use the internet as a medium of information or reference to find the key to the problem and look for an idea in it.

2. Star UML

After the researcher gets a lot of references from the internet, the researcher will start building plans and continue to build application designs using Star UML.

3. Xampp

4. That is the place where the software that plays the role of a local web server to store the database that has been created.

5. Laravel

After inputting the database, the database will be called back by Laravel to display the data in Xampp to the food menu display.

6. Sublime text editor

Sublime Text is an editor application for code and text that can run on various operating system platforms, here the researcher uses Sublime as a Laravel playground, which was explained earlier by typing the command code from Laravel.

C. Work plan

In picture 3 display shows the purpose of system design in general is to provide an overview.
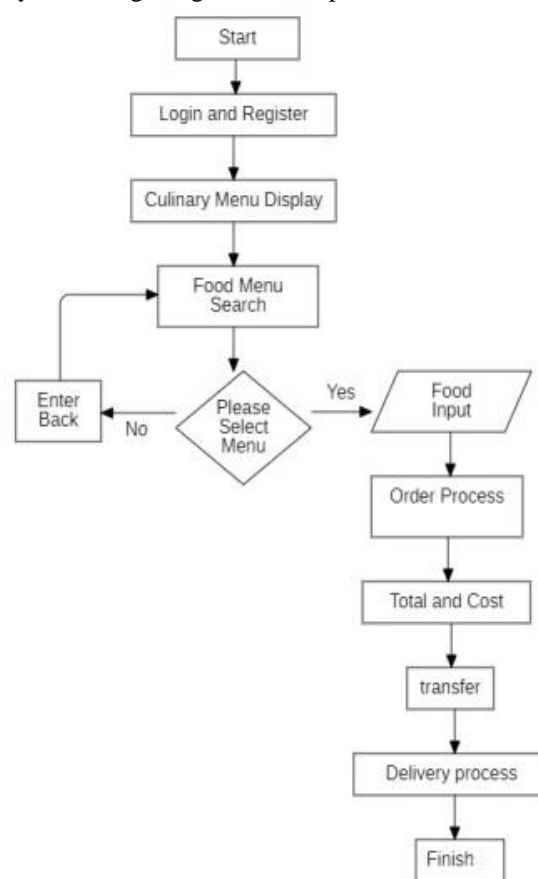
Picture 3. Work plan

In picture 3 display shows The work plan:

1. Login and Register

Here it can be seen that the initial start of an application must be preceded by registration first to save user data.

2. Culinary Menu Display

Shows where the location of the menu is applied which attracts someone before we access the object initialization when starting an order which is completed with the price of each culinary and various names / types of food that have been

provided and a display that attracts consumer enthusiasts around.

3. Search culinary menu

Display search Menu is used when the user has displayed the culinary menu, the search is used to save time without having to search one by one

4. Culinary Input

Retrieve absolute data after selecting the menu and will be processed further to find a definite user output after which the user can enter personal data.

5. Order Process

After carrying out a sequence that aims to make a definite order related to ordering and will carry out an absolute process where the user is ready to order the culinary that has been ordered and will display the correct output.

6. Calculate Total Cost

After going to the ordering process the user will see and calculate the total order where the user will be escorted to the location of the checkout page provided by the admin aiming to complete personal data when heading for culinary delivery.

7. Transfer / Cash on delivery

Serves to go to the decision system where the user will be notified by the admin whether the user will make a payment via Transfer or Cash on delivery.

8. Shipping Process

After making the order process and having made a payment decision, the admin will be ready to place an order, where the admin will ask for the address of the destination to be delivered by the courier.

D. Use Case

In picture 4 displays shows Use case is an abstraction of the interaction between the system and the actor. Use cases work by describing the type of interaction between users of a system and the system itself through a story of how a system is used, in Figure 4. This diagram will describe the interaction of users with admins on an MB FOOD application system that shows and explains how to illustrate functionality and actors. Involved in the MB FOOD application features.
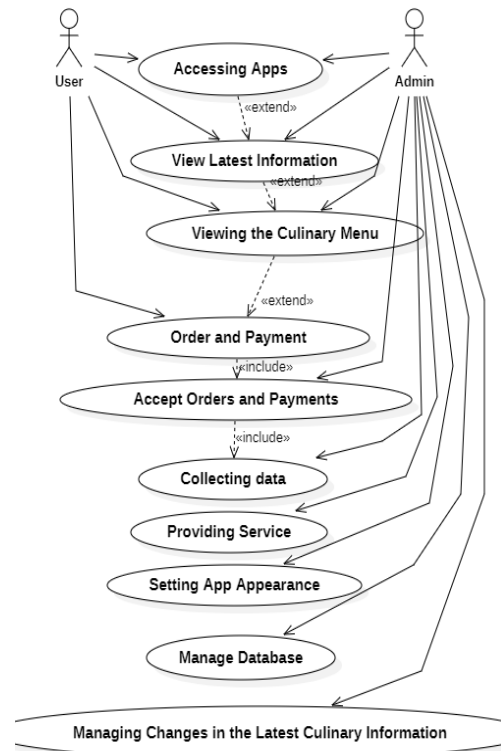

Picture 4. Use case

E. Activity Diagram

In picture 5 display shows, Activity diagrams describe how a flow of activity in a system that has been designed and shows the sequence of process activities on the system. Help understand the process as a whole. Activity Diagrams are made based on one or several use cases. Activity diagram can be seen in picture 5. Activity Diagram. Describes business processes and the sequence of activities in a process. The following Activity diagram is contained in the MB FOOD application. In this Activity Diagram, the user opens a culinary page or culinary menu aiming to the system to request an order where the system asks for complete user data to be executed in the database and will return to the order menu and so on Until heading to the checkout menu, where the order is ready to be placed, further execution.
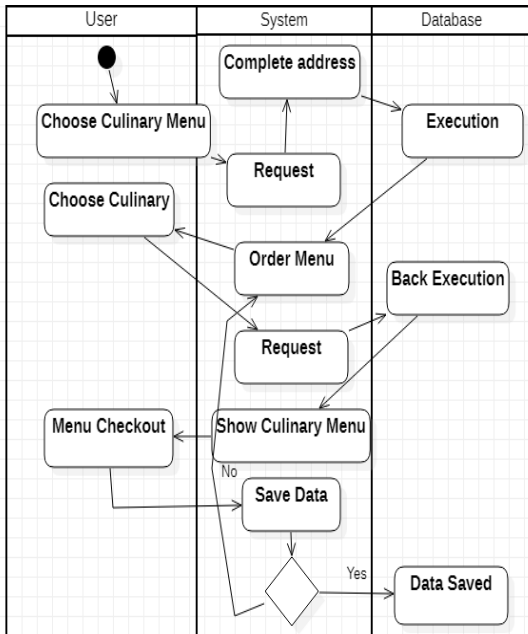
Picture 5. Activity Diagram

F. Class Diagram

In picture 6 display shows, Class Diagram is a part of UML (Unified Modeling Language). Where this class diagram illustrates a visual of the structure as well as a description and relationship between certain class diagrams
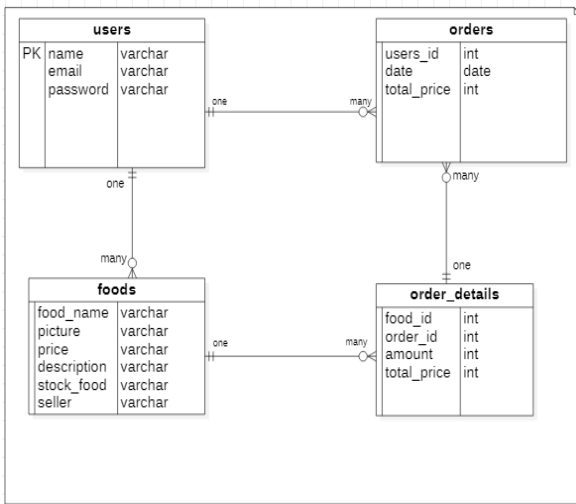

Picture 6. Class Diagram

IV. RESULTS AND DISCUSSION

A. Interface implementation

This is a display of application results and application test results from the creation of the MB FOOD web application. This web description is made in such a way as to make it easier to understand everything that is needed.

1. In picture 7 display shows, that the register display that is useful for inputting user data has 4 parts that can be seen quite clearly, namely the first user name and the second email which aims to serve as

electronic information media that can be checked from each user and as login access that will be checked.
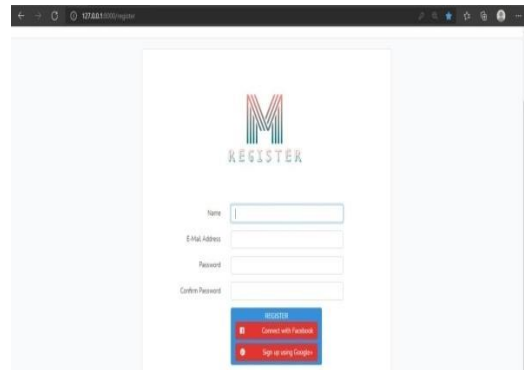

Picture 7. Register Page

2. In picture 8 display shows, can be seen, namely the login display as an MB FOOD user where the user has registered first by inputting data from the previous register and will be ushered into the MBFOOD homepage.
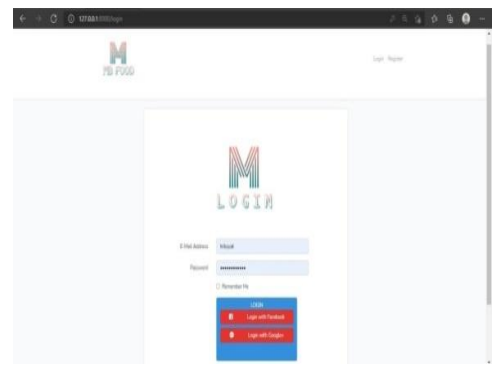
Picture 8. Login display after registering

3. In picture 9 display shows, is the initial menu display after registering and logging in. The initial menu here functions as food data information that will be ordered by the buyer so that it is easy to understand. Information and clarify consumers.
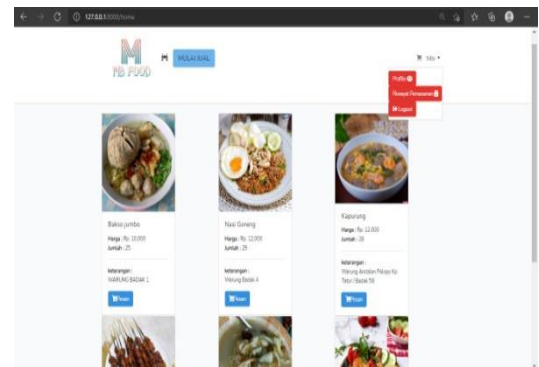

Picture 9. Menu MB FOOD

4. In picture 10 display shows, this is an order page where the buyer previously saw a menu display that

would start the order and would be directly delivered to the ordering page here, there are several parts of the price, food stock.
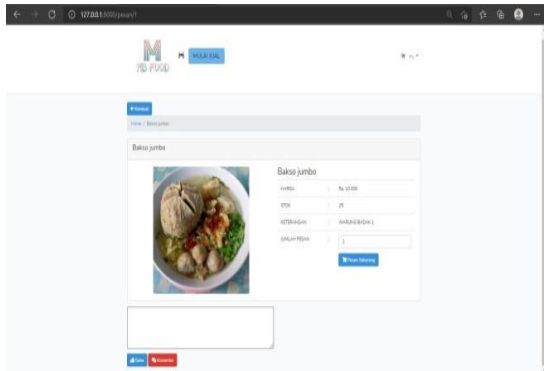

Picture 10. Order page view

5. In picture 11 display shows, there is a Check Out page where there are several core parts that will be explained a little, the first is the total price, which will automatically calculate how many orders have been ordered, the second there is Action, you can see there is a trash can icon to cancel the order.
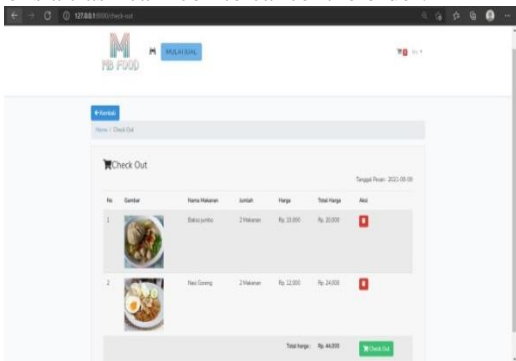

Picture 11. Check Out Process Page

6. In picture 12, display shows It can be seen that the order profile edit aims to fill in the consumer's address which will be delivered by the
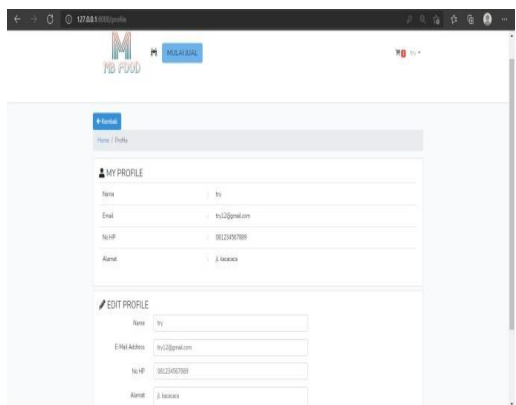

Picture 12. Edit order data profile

7. In picture 13 display shows, Order details can be seen is the final process of ordering there are several core parts that will be explained, the first is the order

date as a marker for proof of the transaction, the second is a unique code indicating a sale that has been in the transaction
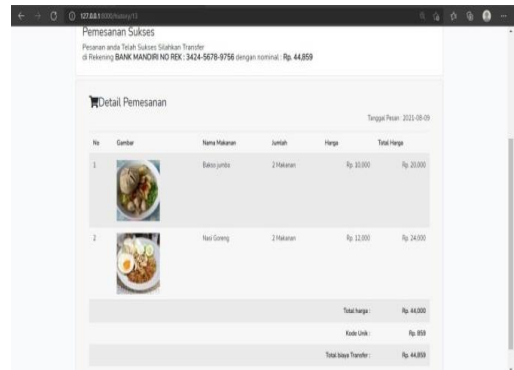

Picture 13. Order Details

8. In picture 14 display shows, the order history page is a proof that the order has been ordered, the application will automatically calculate the number of orders from consumers if we click on the details will be delivered to the order details again.
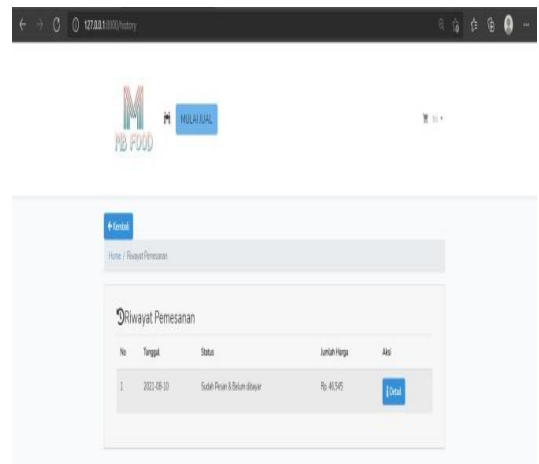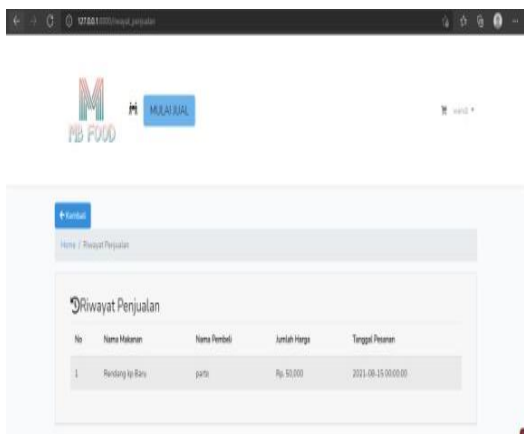

Picture 14. Order History

9. In picture 15 display shows, this is the reseller page when the seller starts selling his food.
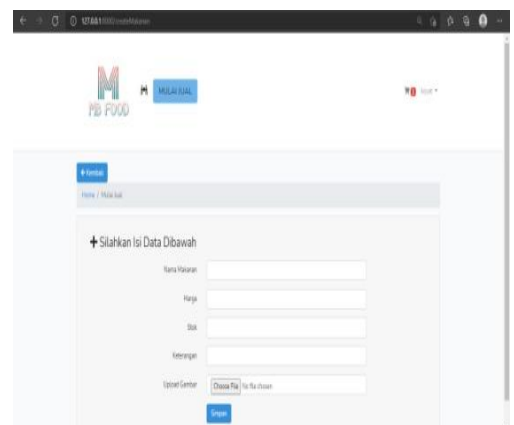
Picture 15. Reseller or Seller Page

10. In picture 16 display shows, Sales History explains that the seller will be informed to the buyer if the seller has completed the payment process.

Picture 16. Sales history page

B. Application testing result

1. MB FOOD Web Application Testing

In table 1 display shows, the application testing In running the MB FOOD web, the author conducted a test to check the features of the application that had been.

Table 1. MB FOOD Web Application Testing

Testing	Success	Result
Is the registration page running properly?	✓	valid
Is the login page running properly?	✓	valid
Is the dashboard page running well?	✓	valid
Is the order page running properly?	✓	valid
Does the Check Out page provide the correct relationship directions?	✓	valid
Is the Edit booking data profile page and its functions running correctly?	✓	valid
Are the Reseller Pages and Reseller history going well?	✓	valid

V. CONCLUSION

With the application that has been created, it can provide information about restaurants and culinary offerings by sellers to application visitors. Through the MB FOOD Application, by utilizing the application, restaurants can promote general culinary and their cuisine menu is wider and free Furthermore, through the MB FOOD application, it is expected to be able to increase the number of visitors and sales turnover at restaurants which can be used as business opportunities for many people to start personal businesses. there are still many buyers who still do not believe in the level of security of online shopping and find it difficult to change habits to transact online, researchers provide a way to change it all by building online stores that can be better. Make it easier for newcomers who aim to find culinary places by paying attention to the current situation with the corona virus outbreak. This application is a bridge for people to avoid the so-called association.

REFERENCES

Ashinta Sekar Bidari. 2020. "Penyuluhan Hukum Tentang Peluang dan Ancaman bagi Konsumen Dalam Transaksi Online di Indonesia". Jurnal Pengabdian Masyarakat".Vol. 3: 45-54.

Aminudin. 2015. "Cara Efektif Belajar Framework Laravel". Lokomedia: Yogyakarta 2015.

A.A Manik Pratiwi. 2020.Peran media sosial dalam meningkatkan penjualan online saat pandemi covid 19". Jurnal Satyagraha Vol. 03, No. 02, Agustus 2020 – Januari 2021.

Fauyhi Eko Nugroho. 2016. Perancangan Sistem Informasi Penjualan Studi Kasus Tokoku. Jurnal SIMETRIS, Vol 7 No. 2: 717-724.

Immah Inayati, M. Nur Hidayatulloh, Made Kamisutara. 2015. "Aplikasi pemesanan makanan berbasis web". e-Jurnal NARODROID, Vol. 1 No.2 Juli 2015.

Khairus Suhada, Danuri, Fajri Profesio Putra. 2017. "Aplikasi Web Promosi Kuliner Dan Rumah Makan Online". Jurnal Teknologi Informasi dan Komunikasi , Vol 8 No.1: 25-34.

Meby Lesnanda, Yohanes Aryo Bismo Raharjo nanda. 2019. "Perancangan Website Penjualan Pada Online Shop Luxmoire Dengan Frame Work Laravel Dan Bootstrap". Vol. 2: 210-212.

Rimba Sastra Sasmita. 2020. "Pemanfaatan Internet Sebagai Sumber Belajar". Volume 2 No1 Tahun 2020 Halaman 99-103 jurnal pendidikan dan konseling.

Santy Permata Sari. 2020. "Strategi Meningkatkan Penjualan Di Era Digital".Jurnal Economic, Accounting, Management and Business". Vol. 3.No.3: 291-300.

T. Prasetyo Hadi Atmoko. 2018. "Strategi Pemasaran untuk Meningkatkan Volume Penjualan Di Cavintion Hotel Yogyakarta".Jurnal of Indonesian Tourism, Hospitality and Recreation". Vol.1.No.2: 83-96.

.