Analysis (Cont...)

System Requirements

Functional Requirement

| Function	Description
Inventory Management Module	This module allows workers or employee to record the inventory using a scanner, update the product details and keep track of the product that needs to be replenished.
Customer Booking Module	This module helps the consumer to book the product online.
Sales Transaction Module	This module allows workers to monitor and measure sales transactions.
Report Management Module	This module allows managers to monitor inventory level data, daily and monthly revenue transaction reports.

Non-Functional Requirement

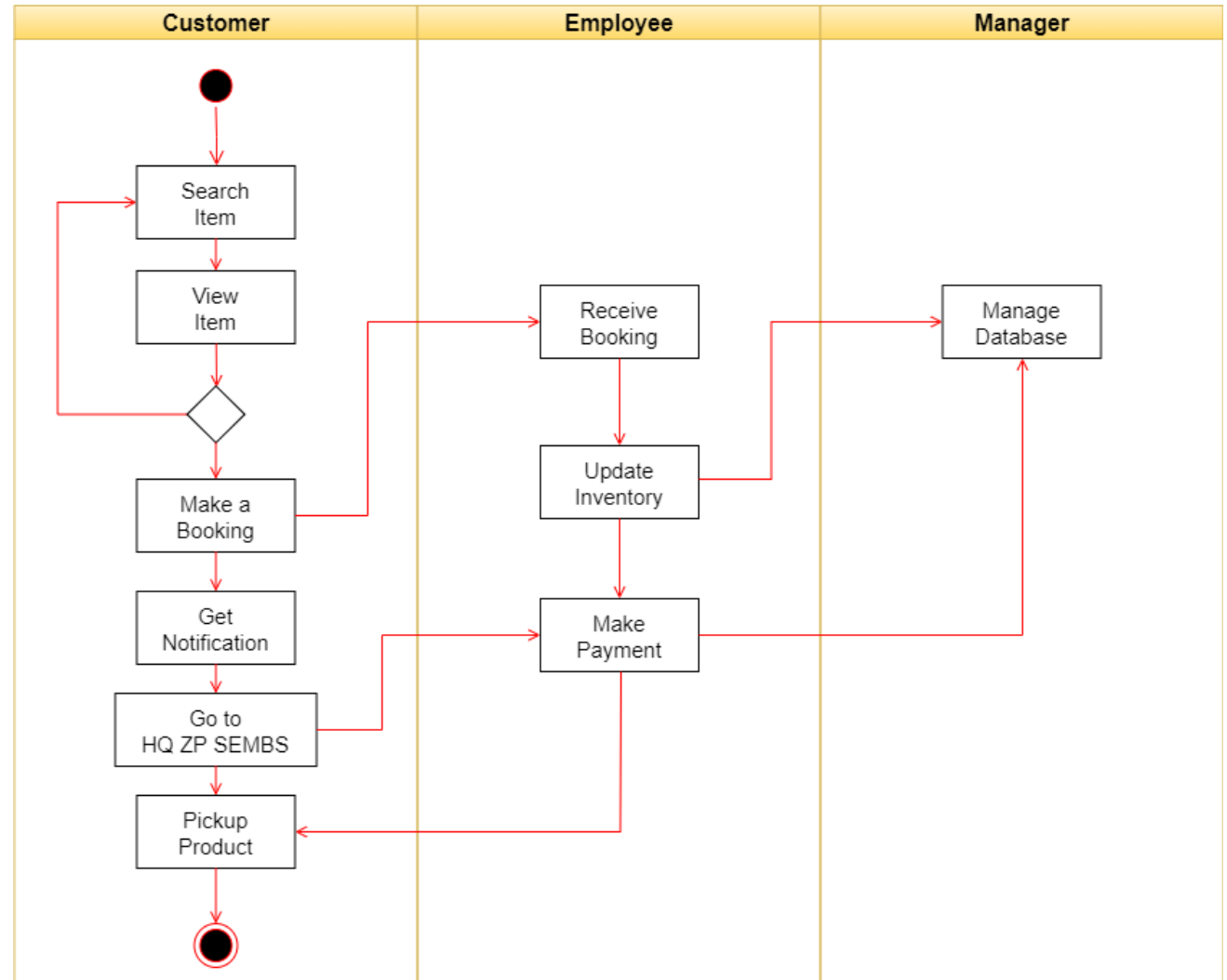| Function	Description
Availability	The web application is often open to all users, particularly when booking items.
Maintainability	This web application has to be managed and revised on a daily basis for any new item for Sambal that has arrived at the HQ.
Security	Get authentication for access info.
Supportability	Support only when user visit the website.

System Design

Use Case Diagram

ZP SEMBS "Various Sambal" Online System Portal
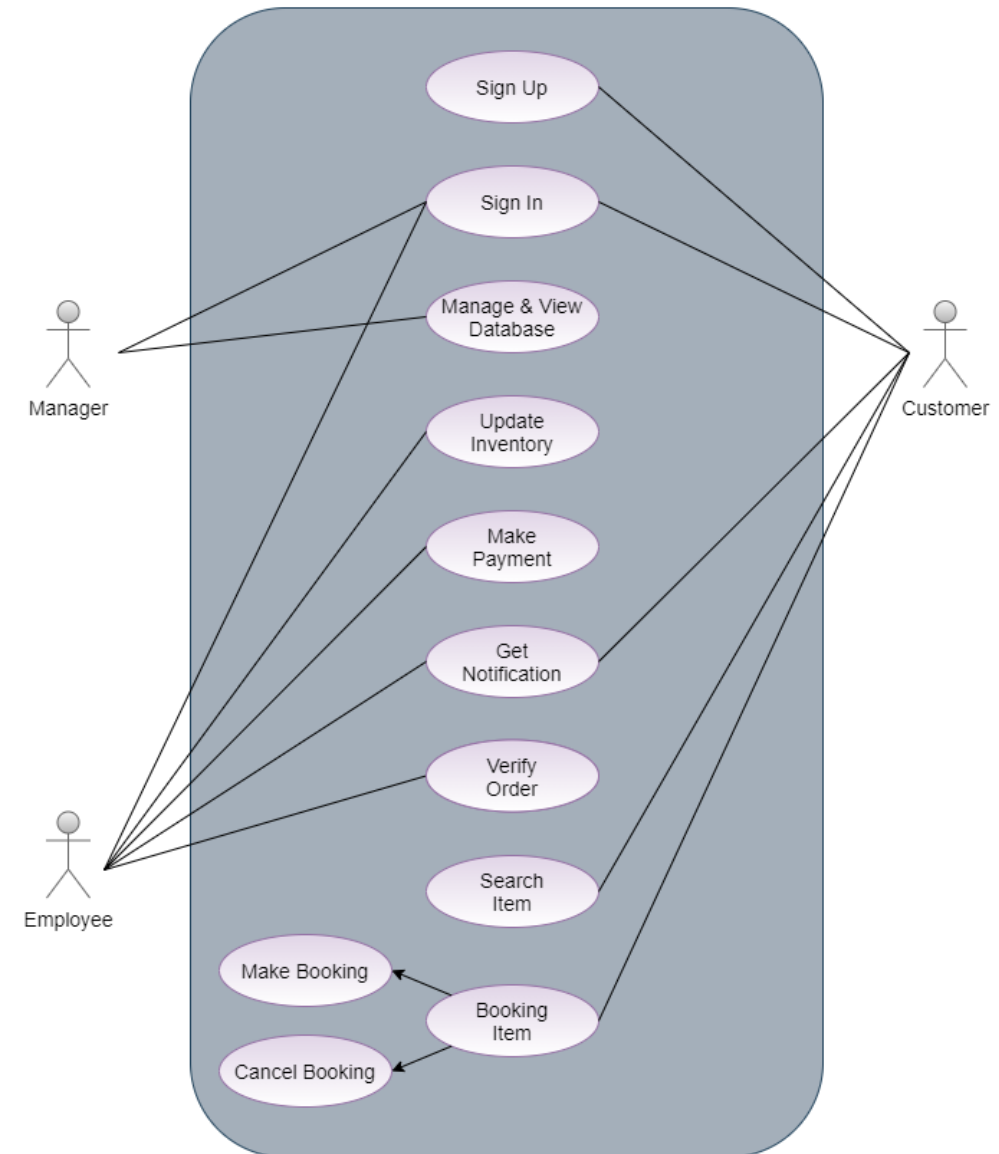
System Design

Activity Diagram

ZP SEMBS "Various Sambal" Online System Portal

System Design
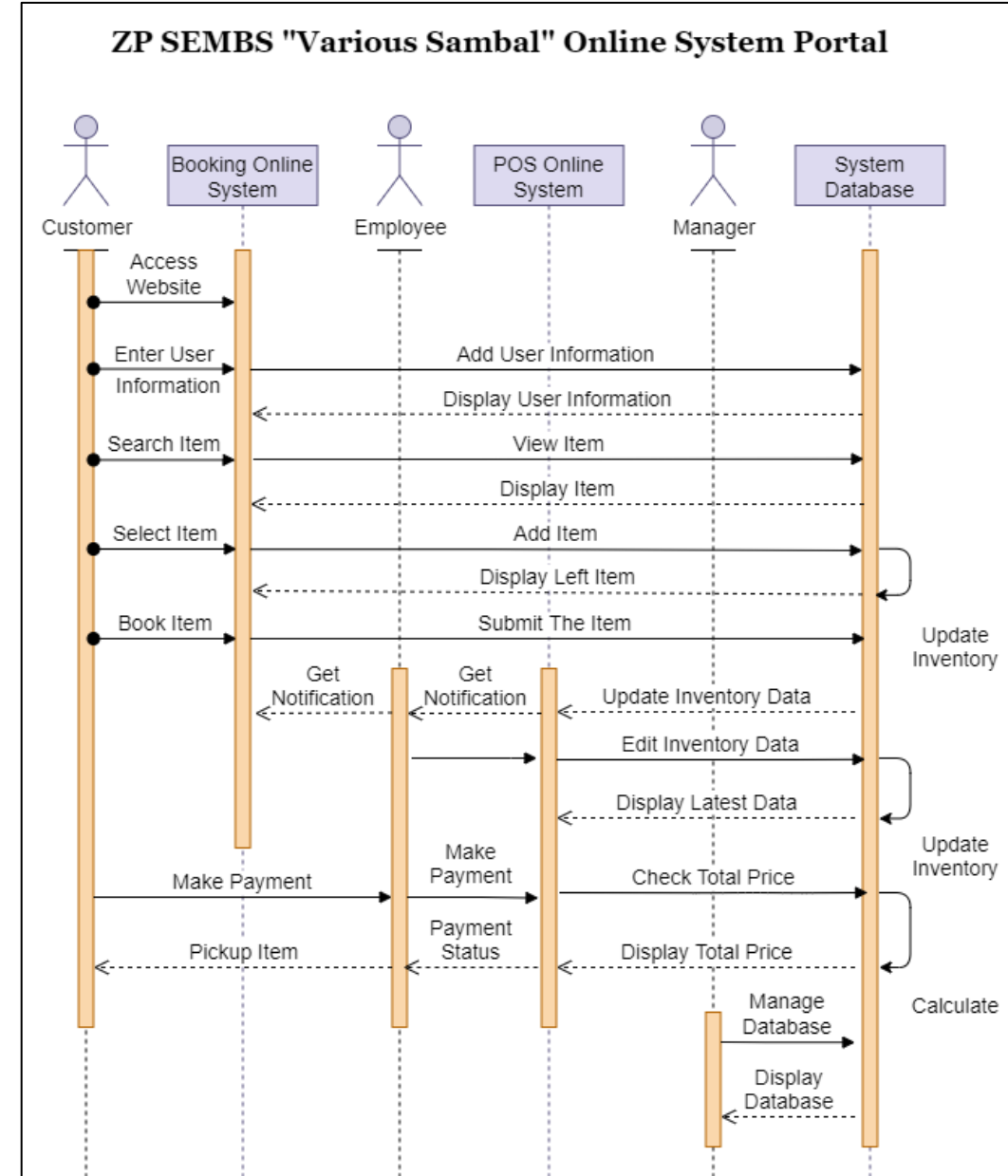
Sequence Diagram

ZP SEMBS "Various Sambal" Online System Portal

System Design

Database Design

ZP SEMBS "Various Sambal" Online System Portal
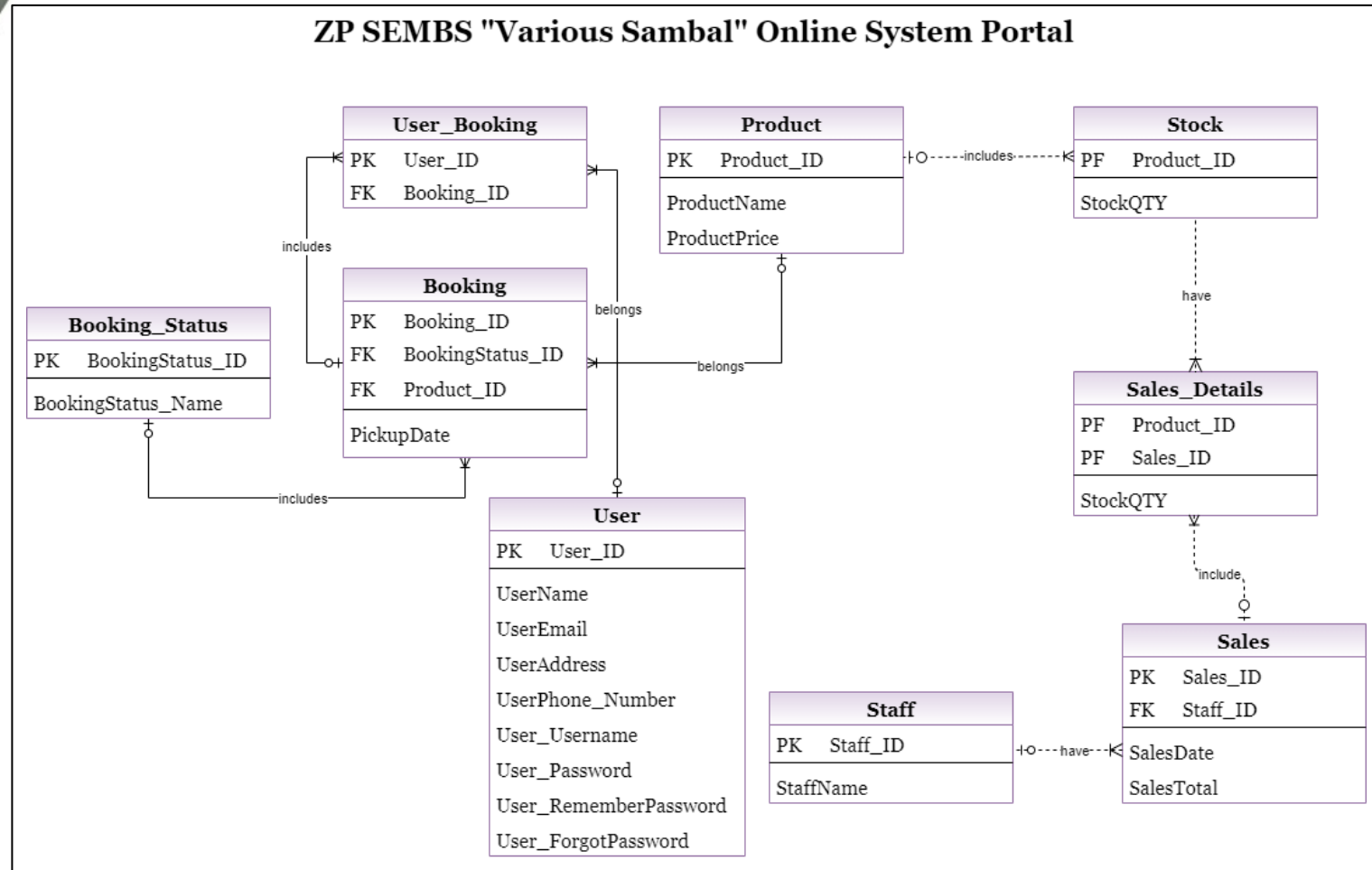
Interface Design

Home Page & Menu Page

Interface Design

Login Page for User & Admin

User Login

Login

Username

Password

Login

Sila daftar masuk kedalam website ini untuk memudahkan kalian menempah sambal yang kalian idamkan.

Contact Us :

Admin Login

Staff Login

10:38:10 PM
Sunday, 14 February, 2021

ZP Sembs
SAMBAL TUMIS IKAN BILIS
RASA MEMANG NGAM!

Username

Password

Login

Interface Design

Register Page for Customer

Interface Design

Admin Page

Interface Design

Employee Page

Interface Design

Customer Home Page

Interface Design

Customer Product Page

Interface Design

Customer Cart Page

Interface Design

Customer Booking Status Successful

Interface Design

Customer Status Page

4.3.1 Functional Requirement

The functional requirement is based on the web application itself which can demonstrate what the web application can do. These are the following functional requirements: -

Table 5: Functional Requirement

Function	Description
Inventory Management Module	This module allows workers or employees to record the inventory using a scanner, update the product details and keep track of the product that needs to be replenished.
Customer Booking Module	This module helps the consumer to book the product online.
Sales Transaction Module	This module allows workers to monitor and measure sales transactions.
Report Management Module	This module allows managers to monitor inventory level data, daily and monthly revenue transaction reports.

4.3.2 Non-Functional Requirement

Table 6: Non-Functional Requirement

Function	Description
Availability	The web application is often open to all users, particularly when booking items.
Maintainability	This web application has to be managed and revised daily for any new item for Sambal that has arrived at the HQ.
Security	Get authentication for access info.
Supportability	Support only when users visit the website.

4.4   Summary

Based on the data collected and any research is seen in this chapter, the questionnaire data are outlined and graphically displayed using Google forms which demonstrate the use of the requirement. According to the analysis that had been made, some enhancement could be made the web framework more perfect and fulfilled client expectations.

CHAPTER 5

SYSTEM DESIGN

5.1 Introduction

In this chapter, the design of the project is the most important part of the project to support the web-based application of the ZP SEMBS Various Sambal Online System Portal. This chapter will show the user how the web-based program is structured and how the user communicates with the web application.

5.2   System Design

5.2.1   Use Case Diagram
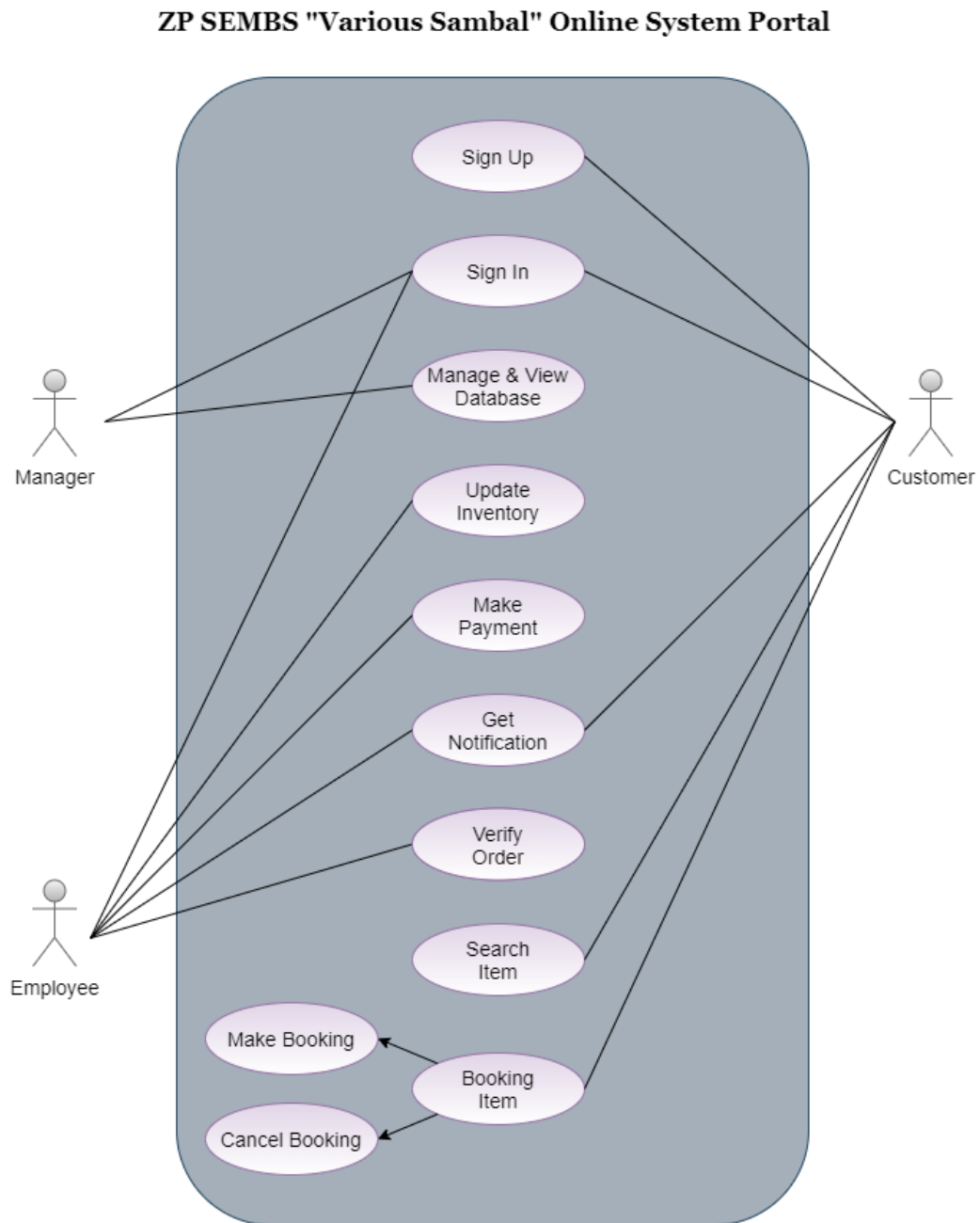
Figure 14: Use Case Diagram

Figure 14 above demonstrates the use of the case diagram for the ZP SEMBS Various Sambal Online System Portal. The creator must refer to the use case diagram that has been made to build the web application properly. The customer's order will be issued directly by the employee and the employee will schedule the item according to the customer's order. After all the products or sambal are gathered and arranged in one location, the customer can pick up and make purchases by himself according to the chosen slot time.

5.2.2 Activity Diagram
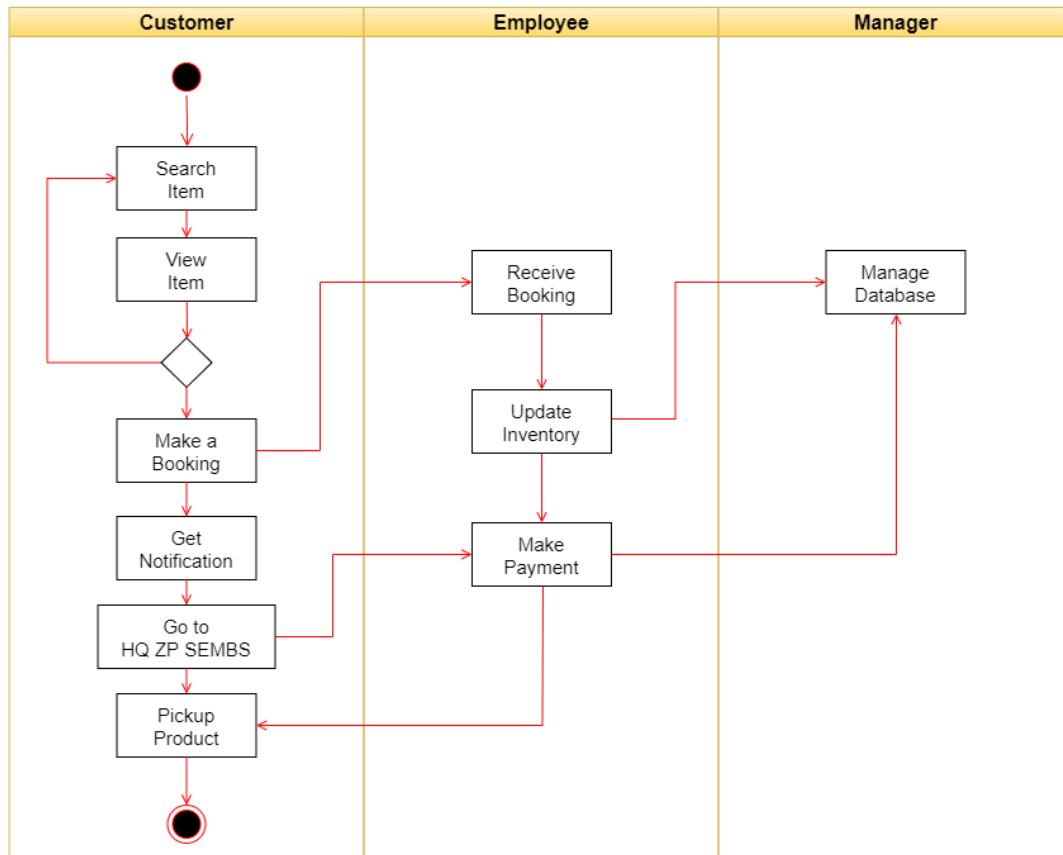
Figure 15: Activity Diagram

The activity diagram as seen in Figure 15 above illustrates how users in the web application behave on the flow of operations. For example, the figure above shows that the employee is the most important part of this project because he is the one who will collect all the data in the period given right after getting a booking order from the client.

5.2.3 Sequence Diagram

Figure 16: Sequence Diagram

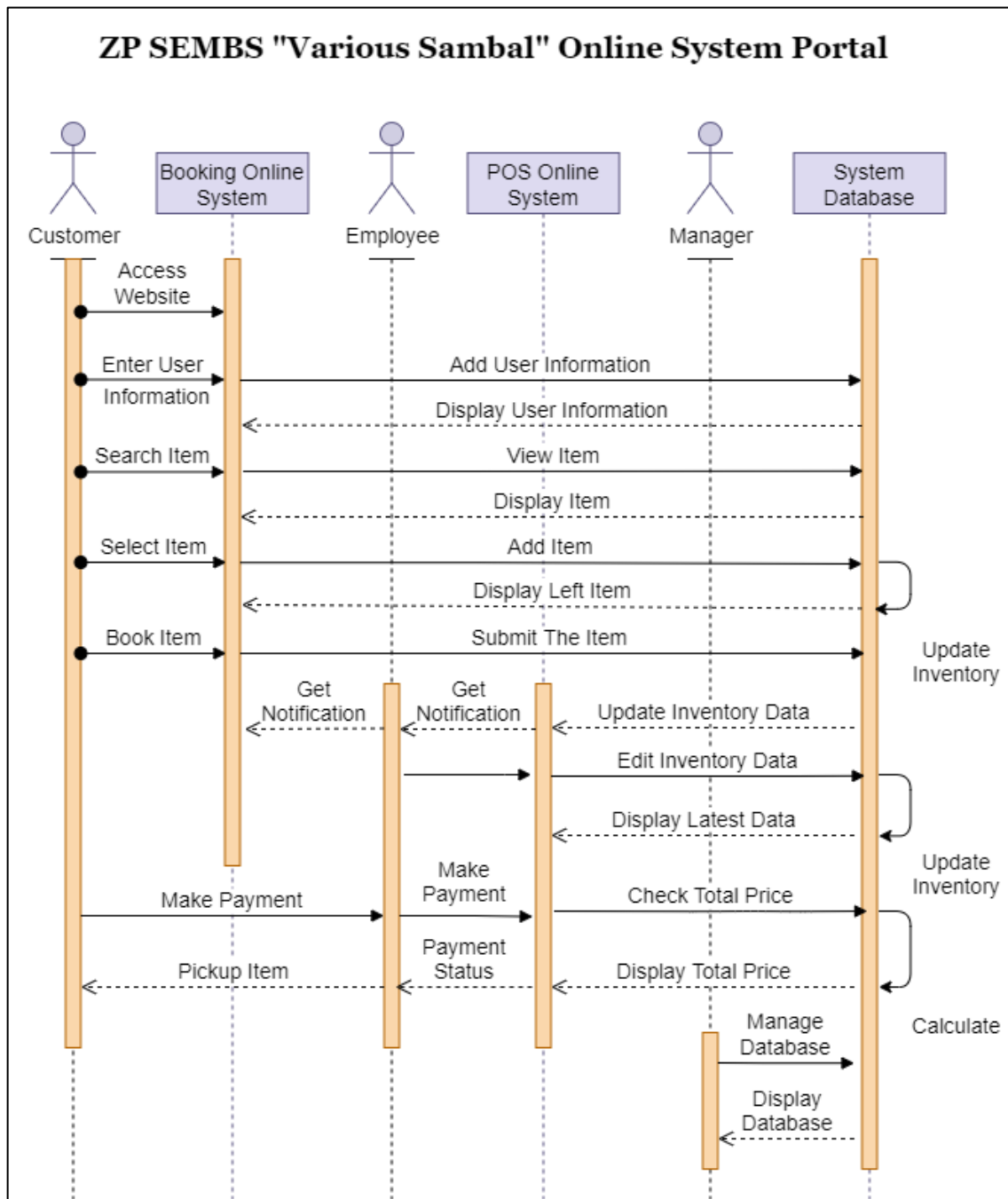Figure 16 shows the sequence diagram for the web-based implementation of the ZP SEMBS Various Sambal Online System Portal. The purpose of the sequence diagram is to draw the flow of the project activity that the developer would use to create the web application. Other than that, the sequence diagram also provides the developer with details and basic instructions on designing a web application.
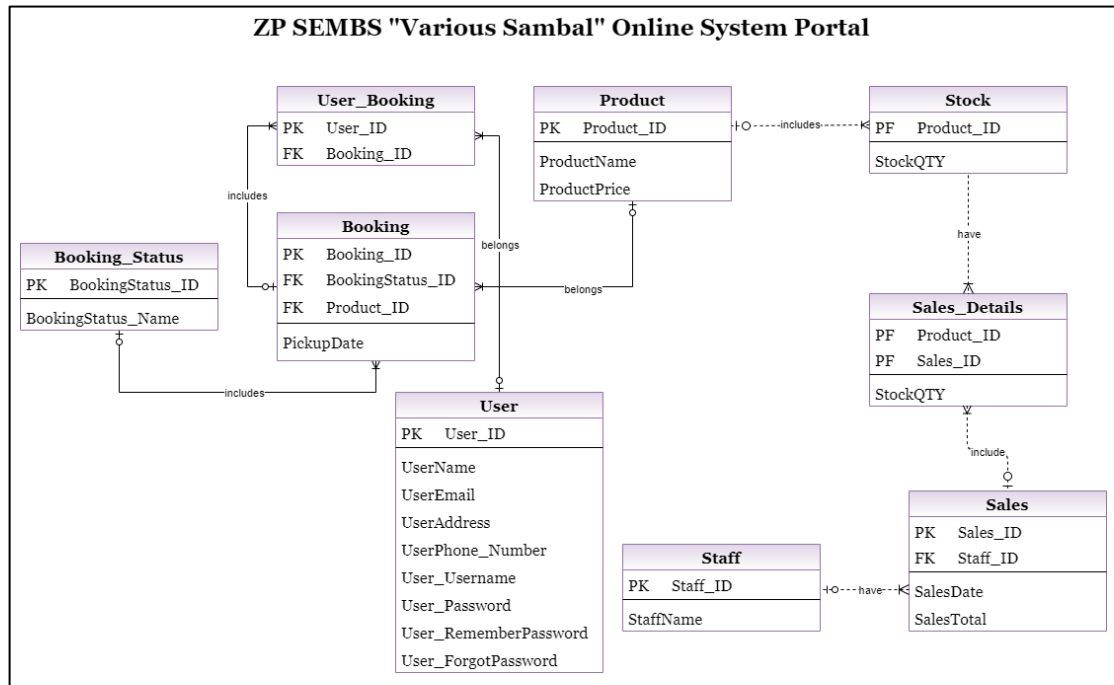
5.2.4 Database Design

Figure 17: Database Design

The main purpose of the Database Design seen in Figure 17 above is to define the relationship between the table and the other table and to consider the primary attributes for each table that exits the database. It can also be called UML Class Diagram because the main design of this Database Design is for a database.

5.3 Interface Design

5.3.1 Home Page and Manu Page

Figure 18: Home Page Interface

Figure 18 above shows the Home Page Interface on ZP SEMBS Portal. The customer can see the variety of the product on the sidebar on the home page. Customers can book a product by logging in or registering as a customer on the portal by clicking "Register" on the menu bar. The admin will use the portal when they login to their account by clicking on "Admin" and the employee can use their account by clicking on "Staff" with the password and username given.

Figure 19: Login Page for Employee/Staff and Admin

Figure 19 above is shown for Login Page for Employee and Admin. This form is only available for an employee and admin username with the password given.

Figure 20: Sign In Form for Customer/User

Figure 20 shows about Login Form. This form sign-in above is only available for a customer who already registers to be a member of the ZP SEMBS Portal with the username and password that the customer registers on its own.

Figure 21: Sign Up Page for Customer/User

Figure 21 shows the Registration Form. This registration form is only valid for the user to be a customer to allow the user to make a booking product.

5.3.2 Admin Page

Figure 22: Admin Home Page

Figure 22 shown above is about Admin Homepage. This form has appeared when an employee for ZP SEMBS Enterprise clicking the Admin button on the Homepage Interface. There are symbols in the menu bar that derive admin from the name of the symbols tab.

Figure 23: Admin Employee Page

This is an admin user employee form shown above in Figure 23. In this method, the administrator can add workers, update employee records, edit employee passwords, locate employees and log out of the portal. At the sidebar, the admin will click a name menu depending on what the admin needs to do. So, it's going to derive admin to the website the admin needs to do.

Figure 24: Product Page

This is the Product Page shown above as known as Figure 24. This page is contains searching of the product, adding product process, edit or delete the product and log out from the portal process based on the sidebar menu.

Figure 25: Order Page

Figure 25 shows the Order Page. This page is the list of consumers of the product booking. The booking list will show after the user registers the portal and then makes a booking. There is a button in the booking list that will ask the employee to enter the product in depth.

5.3.3   Staff / Employee Page

Figure 26: Staff / Employee Home Page

Figure 26 above shows about Staff / Employee Home Page. This page could look the same as the admin page, but there's a difference like that. Employees can only navigate the Product and Order page for the employee home page. The employee must manage all of them.

5.3.4 Customer Home Page

Figure 27: Customer Home Page

It is the home page of the client that is shown above as known as Figure 27. The customer can be accessed when the customer registers on the ZP SEMBS portal. There is a home tab, product, cart, status, and searching for the product on the menu bar. This page also shows the details for contact management of ZP SEMBS and the user also can log out of their account on this page. There is a range of group product firms for the sidebar. Customers can click on the category that they want to buy.

Figure 28: Customer Product Page

Figure 28 is the Customer Product Page, which is this page functions for the customer or user to click on the Add to Cart or trolley symbol to make a booking.
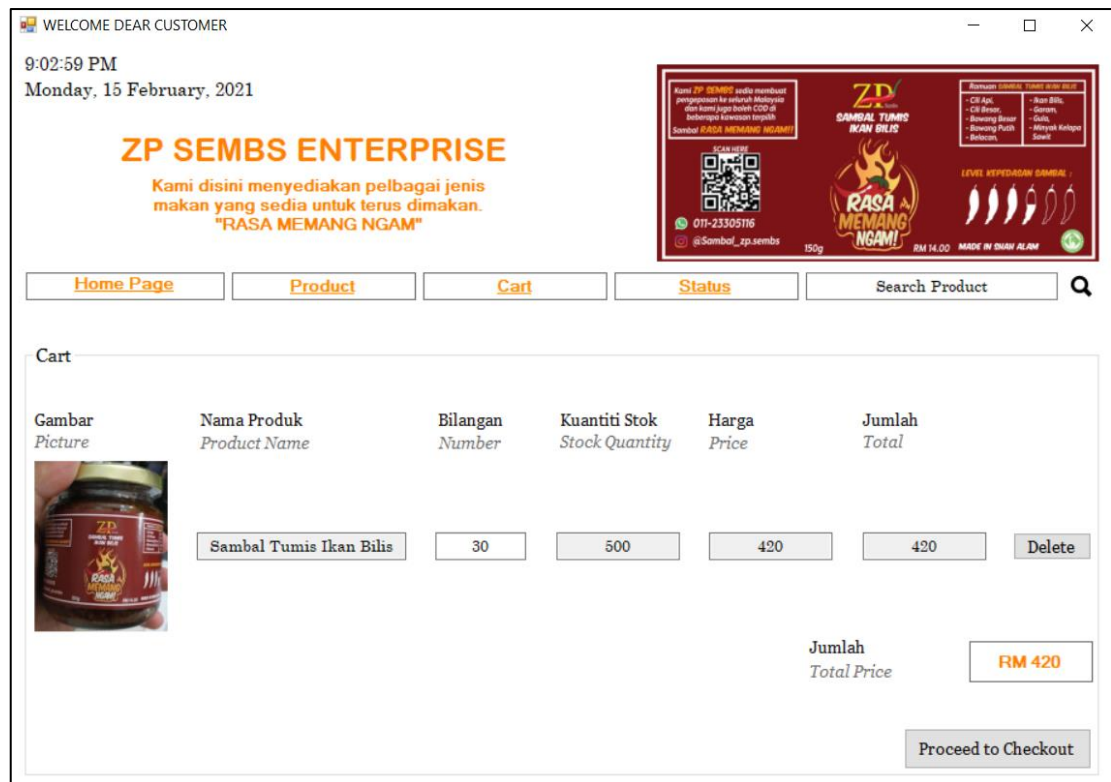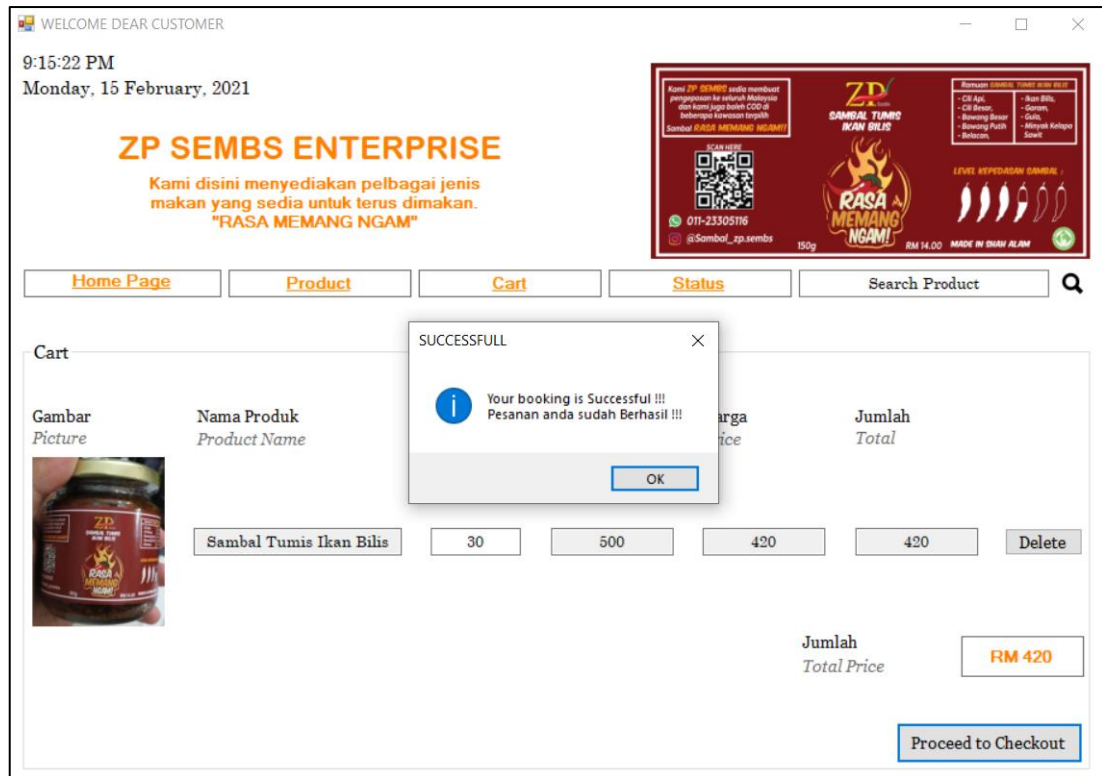
Figure 29: Customer Cart Page

Figure 29 shows about Customer Cart Page, it is the Customer Cart tab that will be displayed when the Customer clicks the Cart icon on the Product side. Customers will edit how much a book they want to make. The total price of the booking package will be revealed.

Figure 30: Customer Booking Successful

Figure 30 is a picture of the Customer Booking Successful message box. This message box will have appeared when the customer clicks to proceed to the checkout button.

Figure 31: Customer Status Page

Figure 31 shows about Customer Status Page which is this tab is sending the specifics of the booking from the customer to the admin or the employee. It will not provide an online purchase, but just offer specifics of the product booking when you press the "Save" button.