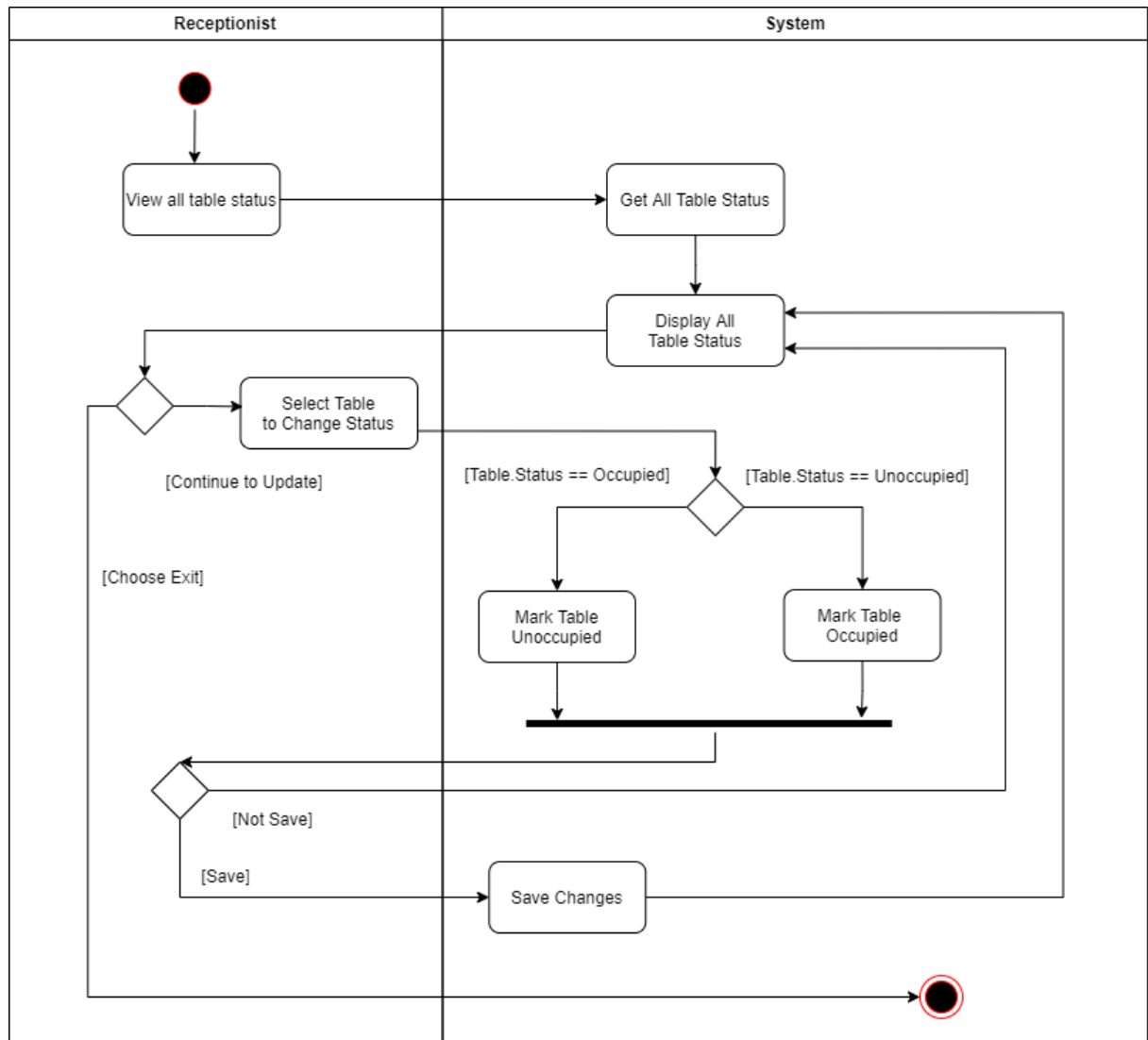


Activity Diagram

Feature 1: Table Management



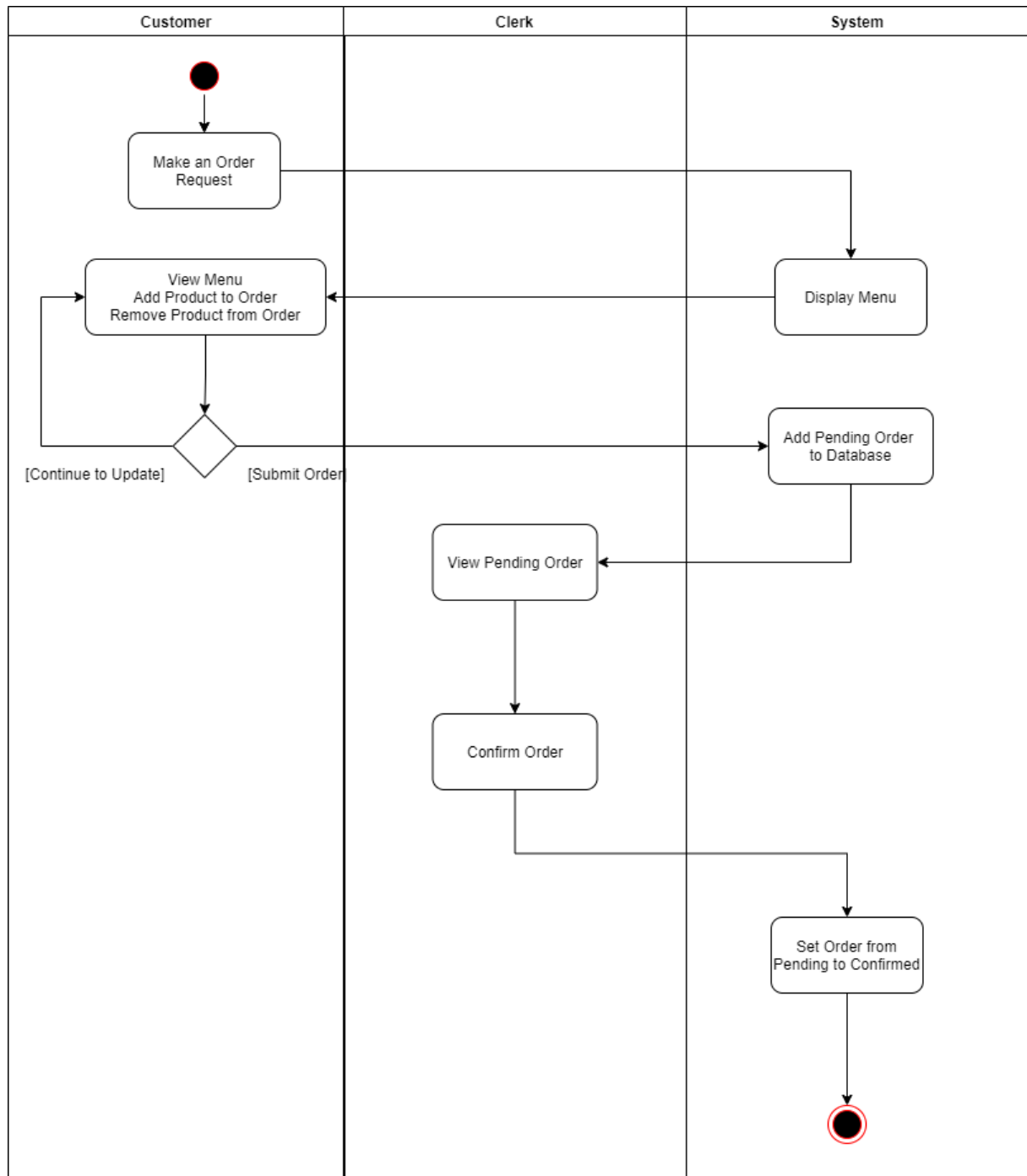
Visit this url to see the diagram better:

<https://drive.google.com/file/d/1jxEeIkqhmeY-TZP2tCaWpxwTGcMIDgbn/view?usp=sharing>

Above is the activity diagram and below is the description of Table management process:

1. The Process is divided into 2 swimlanes: Receptionist and the System
2. The Receptionist requests to view all table status in the Receptionist Tab
3. System request to get from database and display all table status on the screen.
4. Now, the Receptionist can choose to update one or many table's status by changing it from Occupied to Unoccupied or vice versa and save all changes to the database or not and exit, or the Receptionist just views the table status list and exit.

Feature 2: Order System



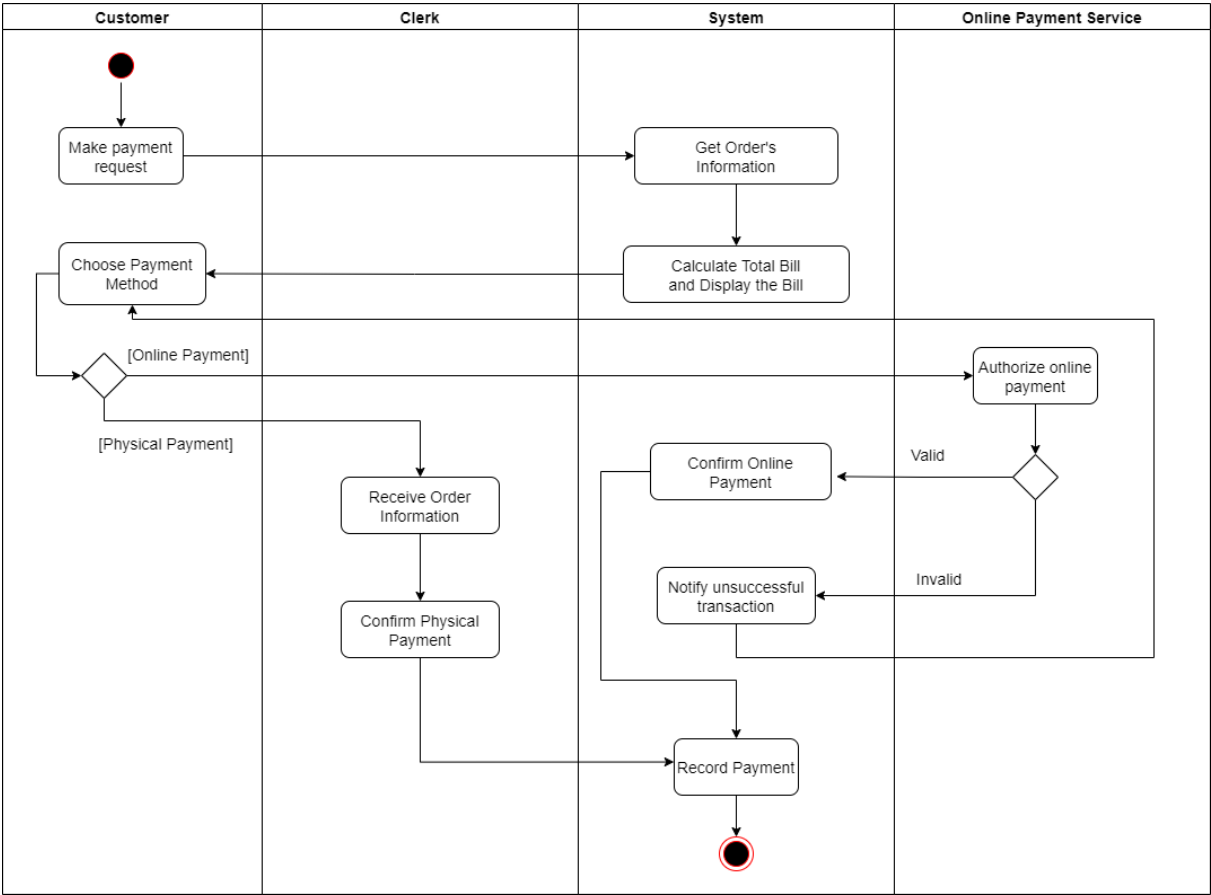
Visit this url to see the diagram better:

<https://drive.google.com/file/d/1CpaXqspHag24dzSCcwuvb97hEijfbXIn/view?usp=sharing>

Above is the activity diagram of Order System Process

1. Order system activity diagram is divided into 3 swimlanes: Customer, Clerk and the System
2. First, after the customer accessed the table through QR code, a 'Make Order' request sent from the customer's device to the System, system will display the menu and create a temporary cart to cache the update (add, remove dish) that customer made to the order.
3. Customer submit the order, System will save the order into Order Table in the database as 'pending' state.
4. On the clerk side, when refreshing the 'Order Management' page, the clerk will view all the pending orders. Clerk can access the details of each order, then click the confirm button to set the state of the order to 'confirmed' and direct the customer to the payment page.

Feature 3: Making Payment



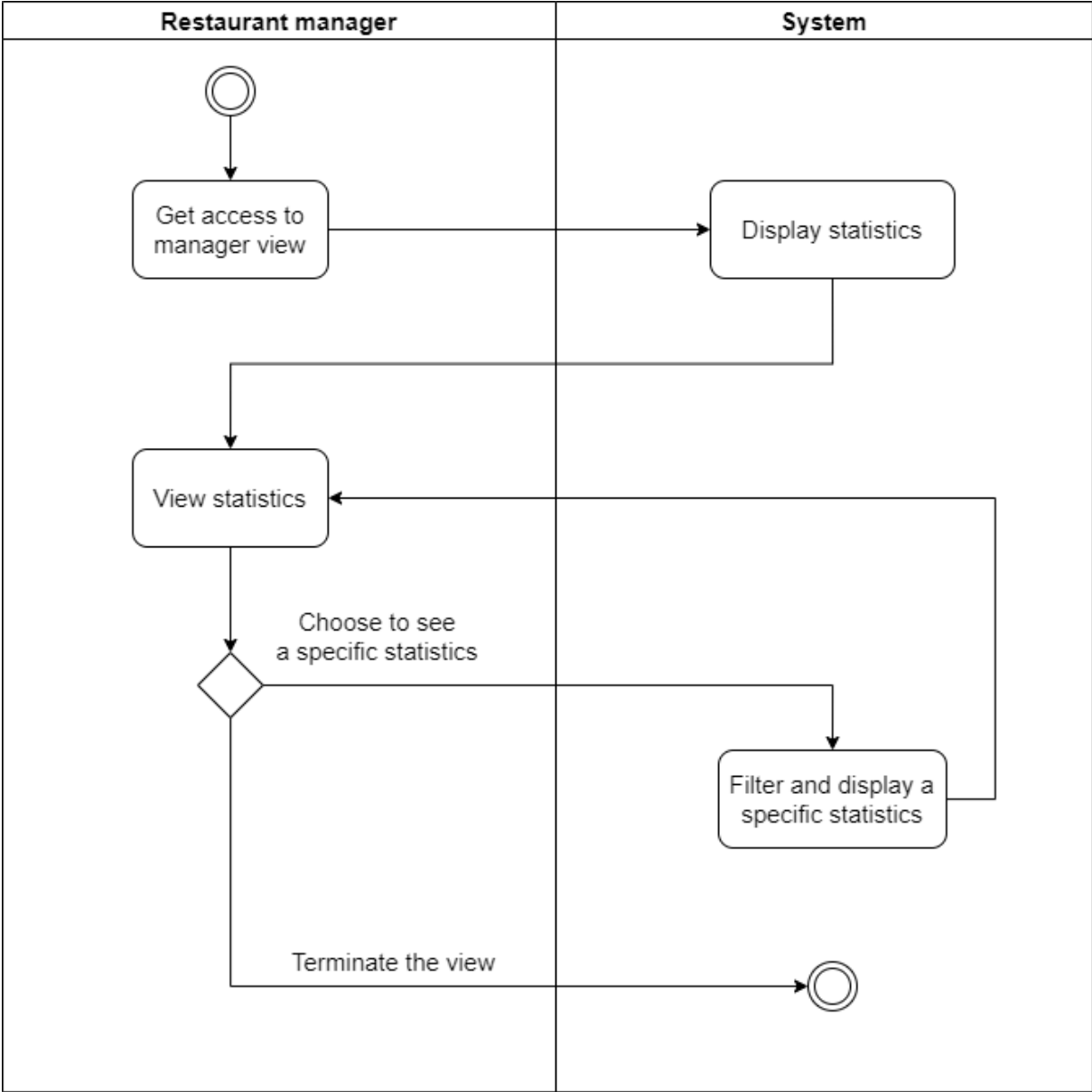
Visit this url to see the diagram better:

https://drive.google.com/file/d/1Ir37Nj0nooYfDgLoF46xDQz8dfX_BYkB/view?usp=sharing

Above is the activity diagram of Making Payment Process

1. The diagram is divided into 4 swimlanes: Customer, Clerk, System and Online Payment Service.
2. When the customers want to make their payment, they send a payment request to the system, the system then displays their bill and asks for the payment method they want to use.
 - 2.1.1. If customers choose to pay by physical payment method (cash, credit card), the clerk shall get notified about the payment. Clerk receives the payment and confirms it to the system. The transaction is recorded in the database.
 - 2.1.2. If customers choose to pay by online payment method, their payment is directed to online payment service. Payment service will verify their transaction and send back information to the system.
 - 2.1.2.1. If payment is failed, customers are navigated to choose the payment method page.
 - 2.1.2.2. If payment is made successful, the transaction is recorded in the database.

Feature 4: View Statistics



Visit this url to see the diagram better:

<https://drive.google.com/file/d/14oicHIqsBRytehiDEQ8RdwLDw424o1XT/view?usp=sharing>

Above is the activity diagram of View Statistics Process

1. The diagram is divided into 2 swimlanes: Restaurant Manager and System
2. When the manager gets access to manager's view the system display the statics on view
3. The manager views statistics and terminates the window, the activity finishes.
4. If the manager chooses to see some specific statistics, the view shows the statistics after being filtered. The flow continues at step 3.