

Activity Diagram

Feature 1: Table Management

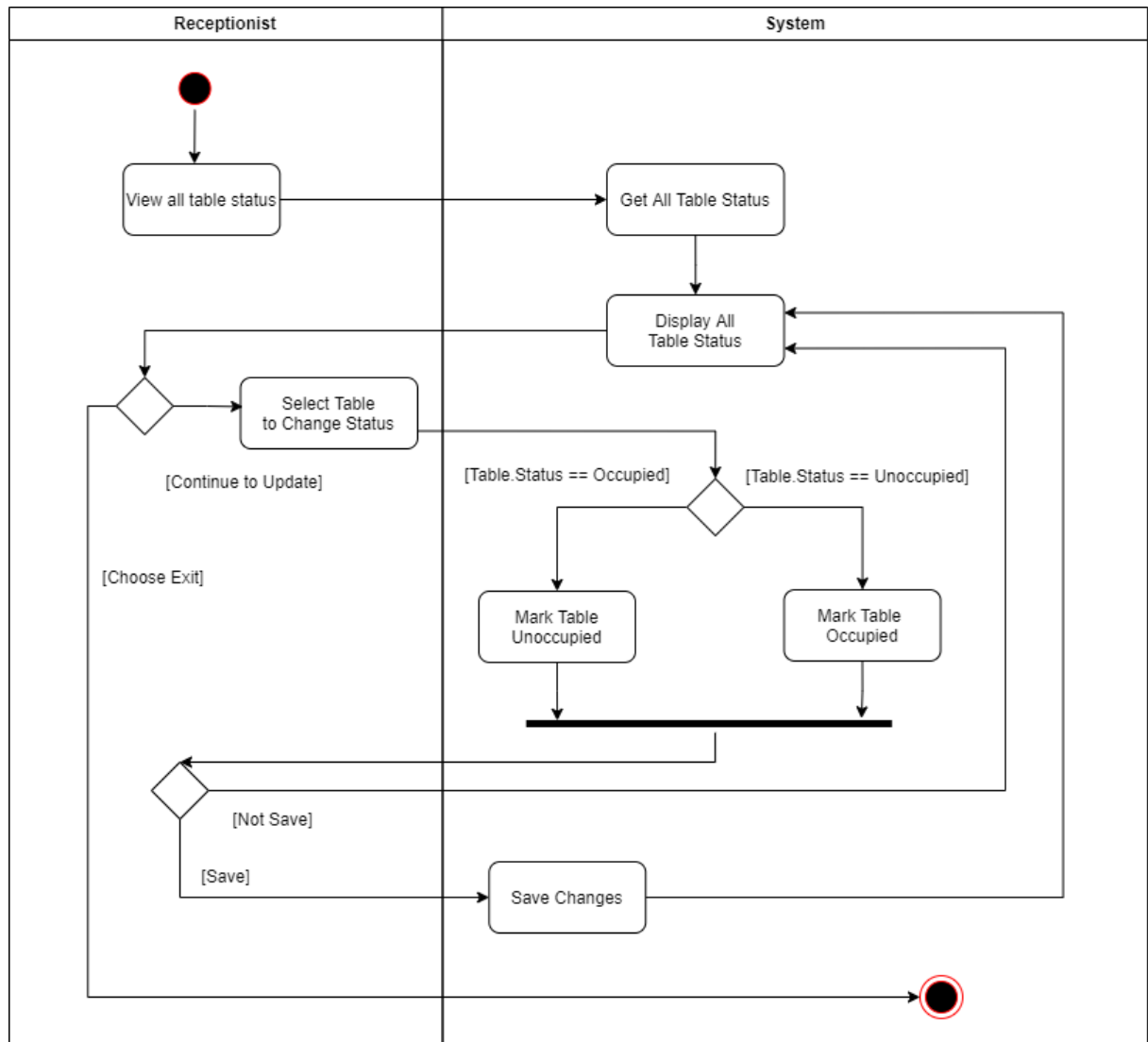
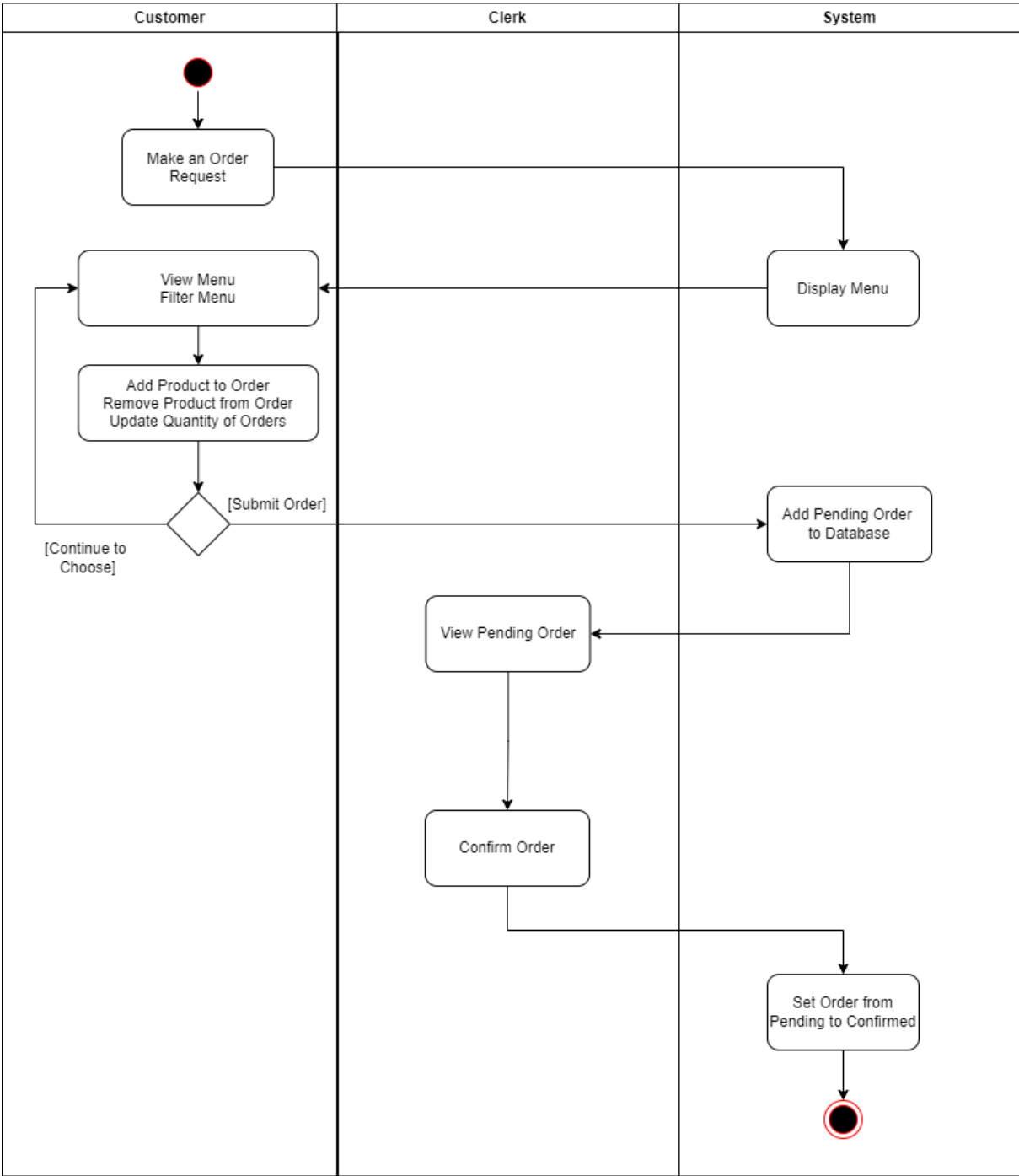


Table Management Activity Diagram ([Link image](#))

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

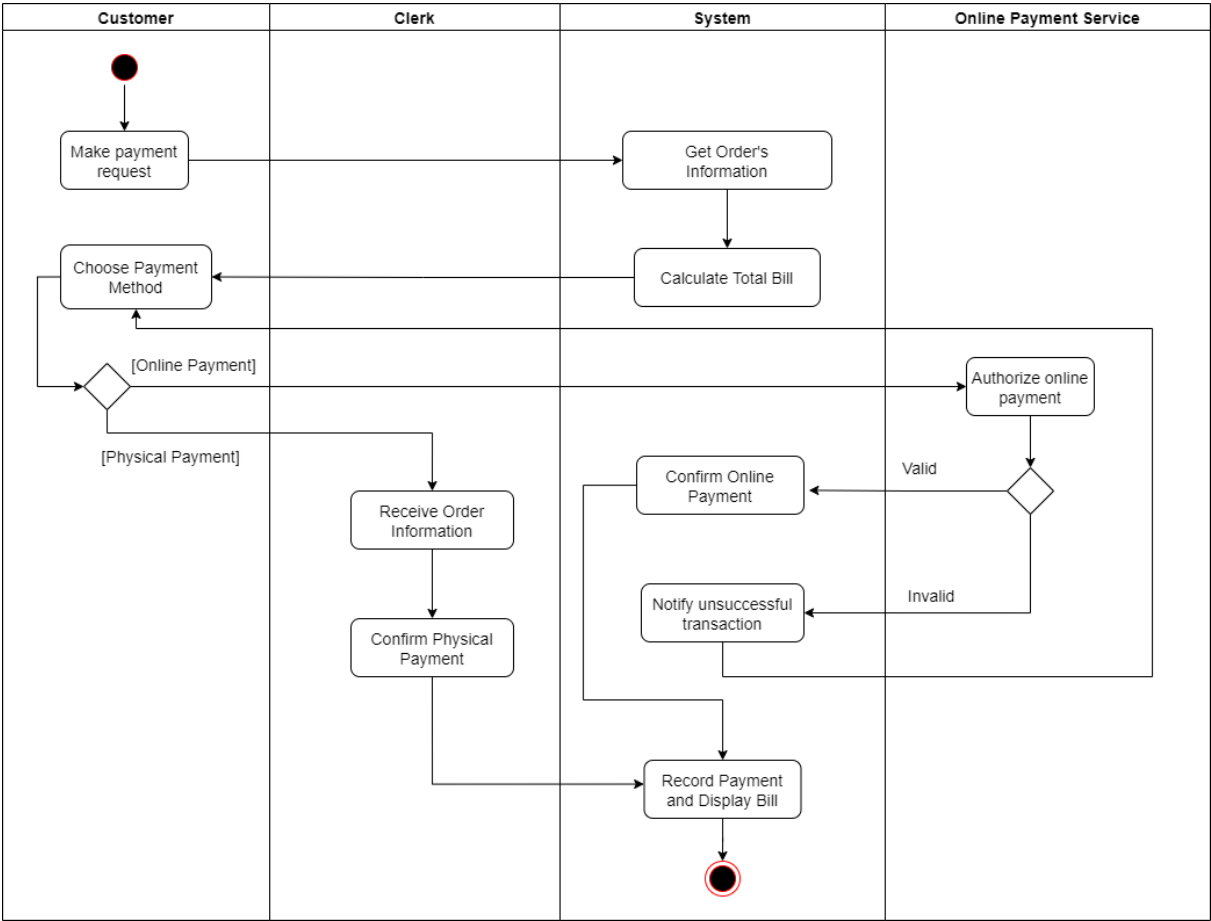


Order System Activity Diagram ([Link image](#))

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. Customers submit the order, System will save the order into the Order Table in the database as "Pending" state Order. Customer will be directed to the Payment Page
4. On the clerk's 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" Order state

Feature 3: Making Payment

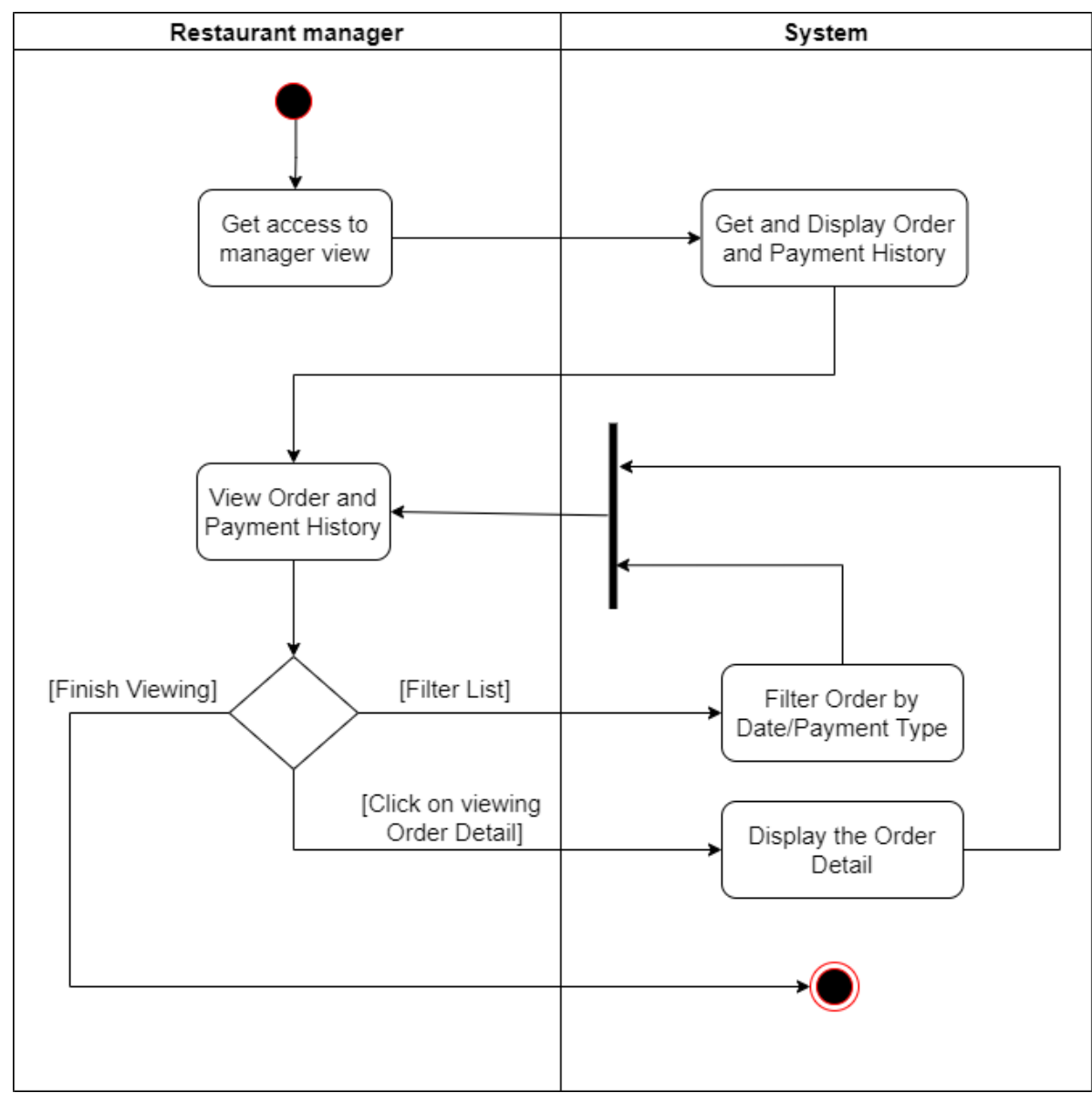


Making Payment Activity Diagram ([Link image](#))

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 asks for the payment method they want to use.
 - If customers choose to pay by physical payment method (cash, credit card), the payment request is recorded in the database as a “Pending” state payment. The customers then are directed to the bill page
 - If customers choose to pay by online payment method, their payment is directed to online banking service. Online banking service will verify their transaction and send back validation information to the system.
 - If payment is failed, customers are navigated back to choose the payment method page to choose a different bank or a different method
 - If payment is made successful, the payment is recorded in the database and the customers are directed to the bill page
3. Restaurant Clerk only confirms Physical Payment, while Online Payments are confirmed by online banking service. On the clerk's side, after the customers have finished their orders, the clerk will be called to receive the payment and confirm the payment is successful.

Feature 4: View Order History



View Order History Diagram ([Link image](#))

Above is the activity diagram of View Order History Process

1. The diagram is divided into 2 swimlanes: Restaurant Manager and System
2. When the manager gets access to Manager's view, System gets all Order and its Payment from Database and displays to the Manager's View
3. The manager views the list of Orders and Payments
4. When the manager finishes viewing, the manager finishes the window, the activity finishes.
5. If the manager chooses to see a specific Order Detail, System gets the Order Detail from Database and displays to the view
6. If the manager chooses to filter Orders, the manager chooses the Date or the Payment Type or both, System filters the list according to the selection