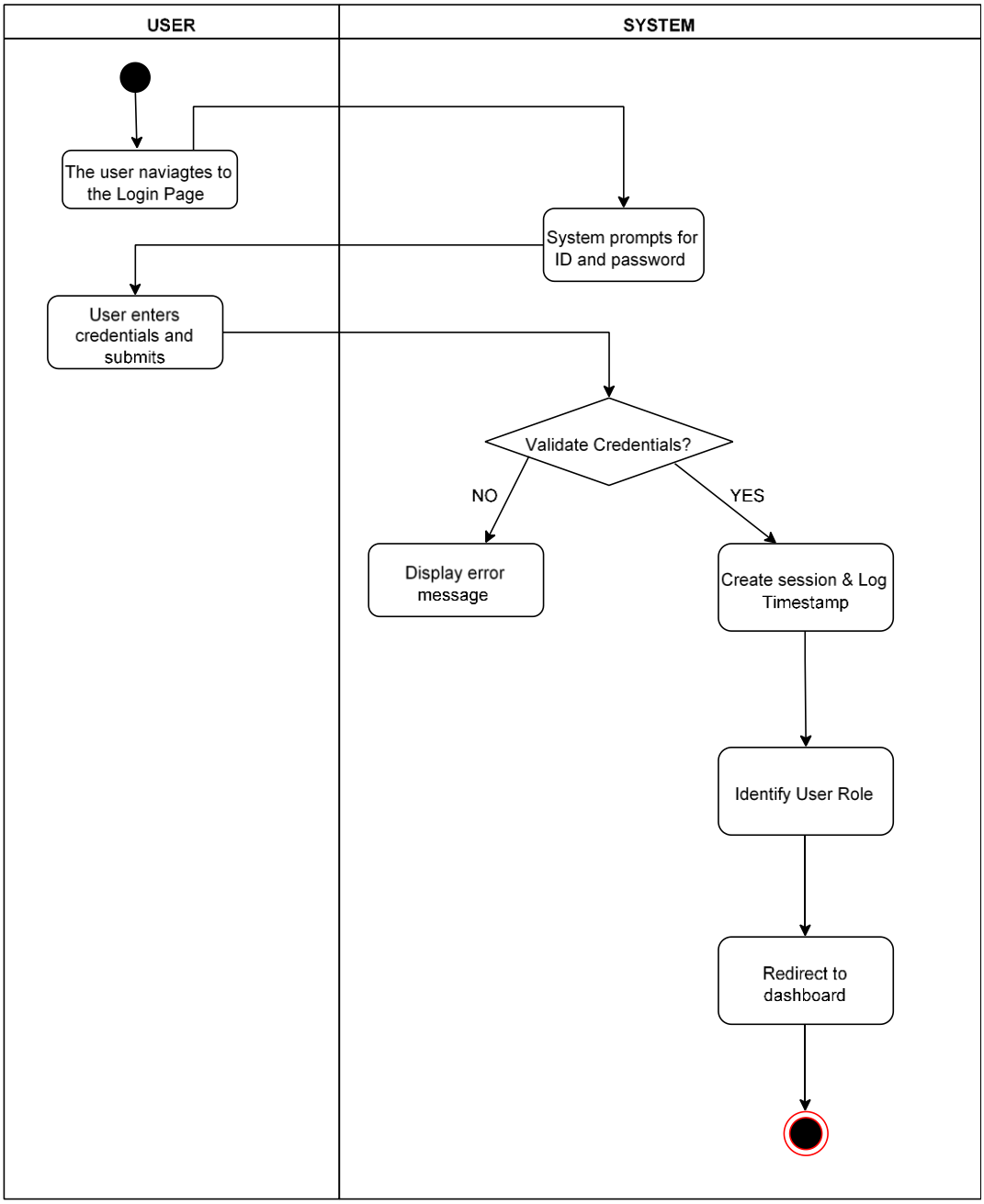
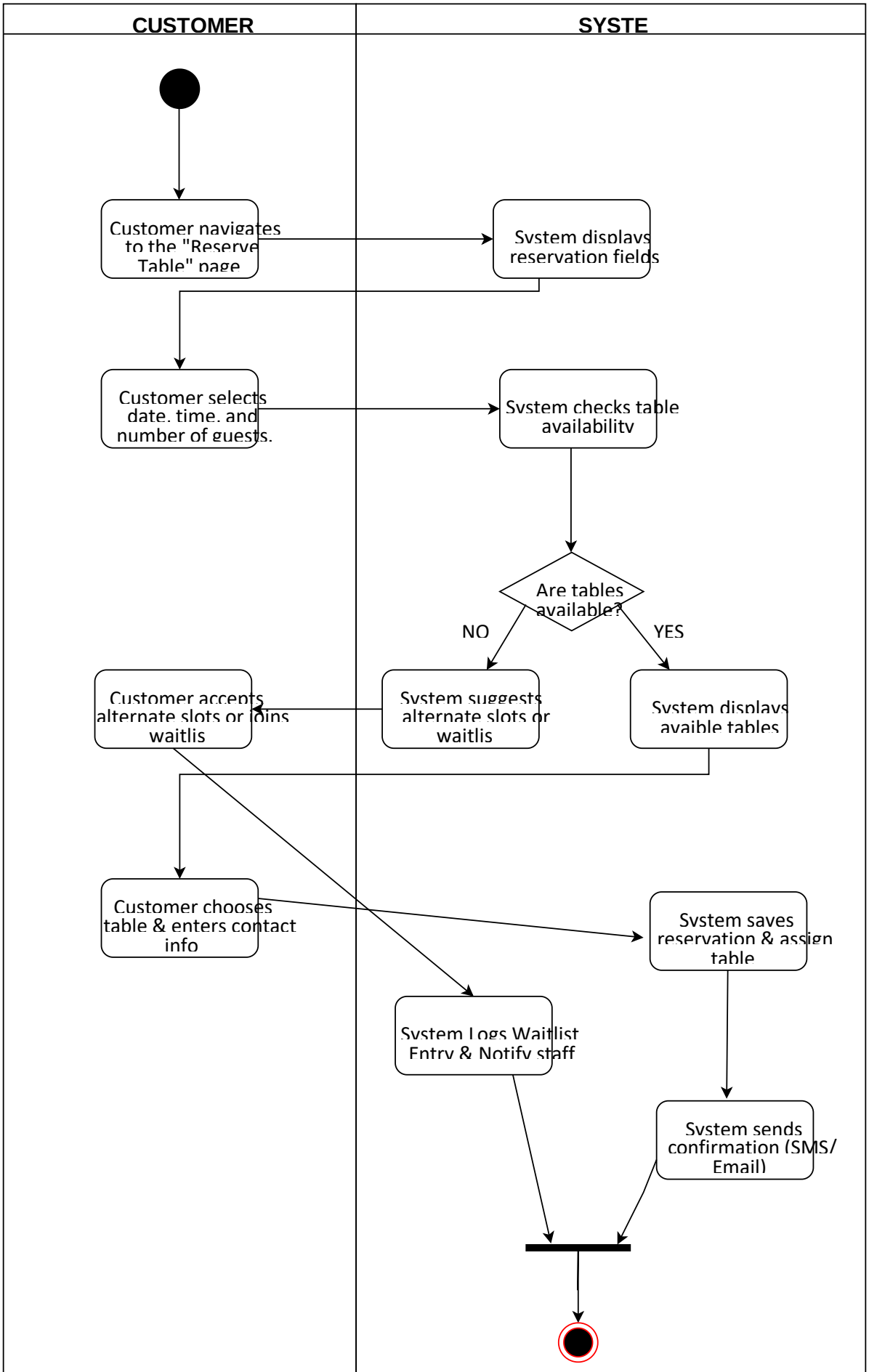
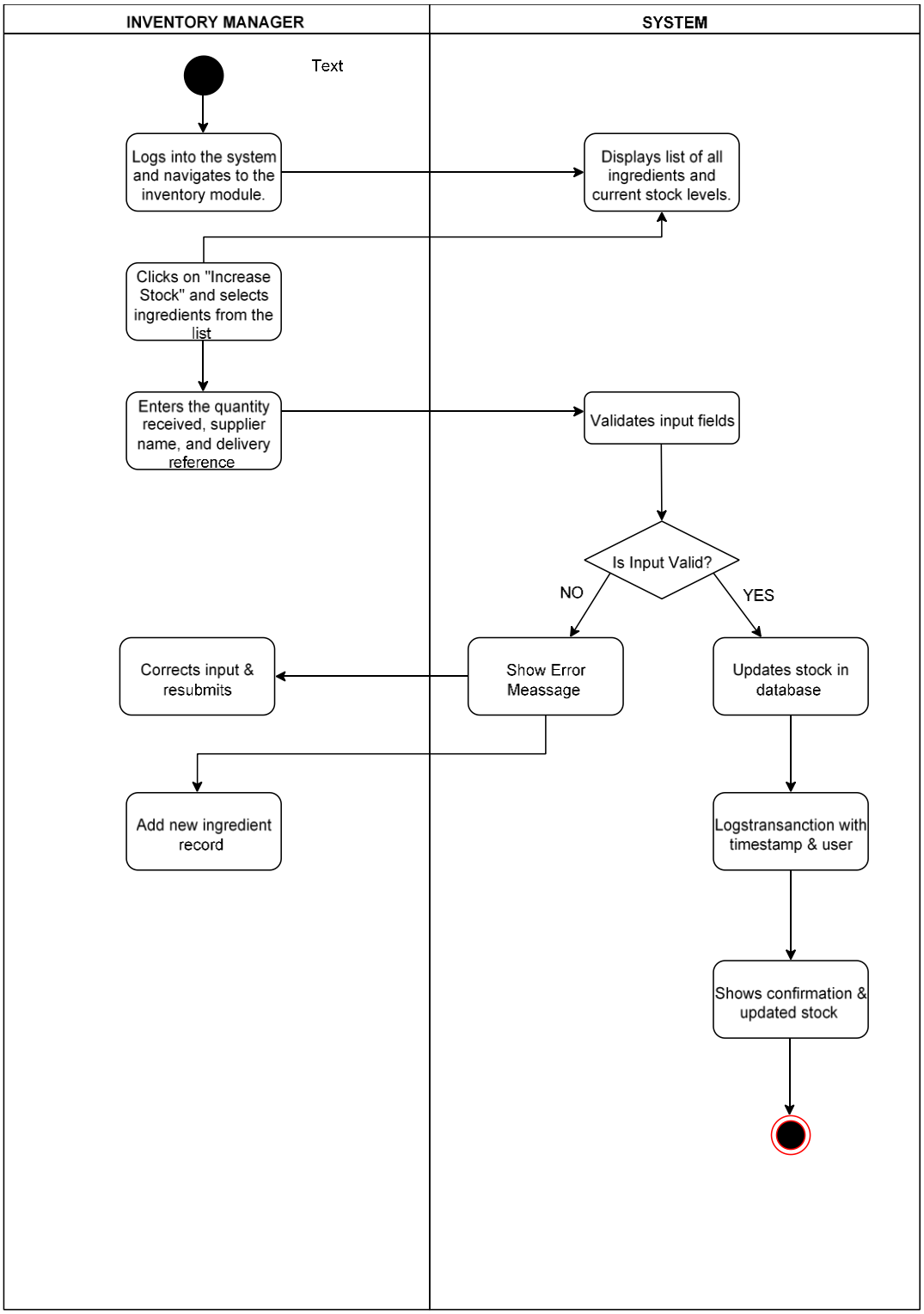
ACTIVITY DIAGRAM : LOGIN USER

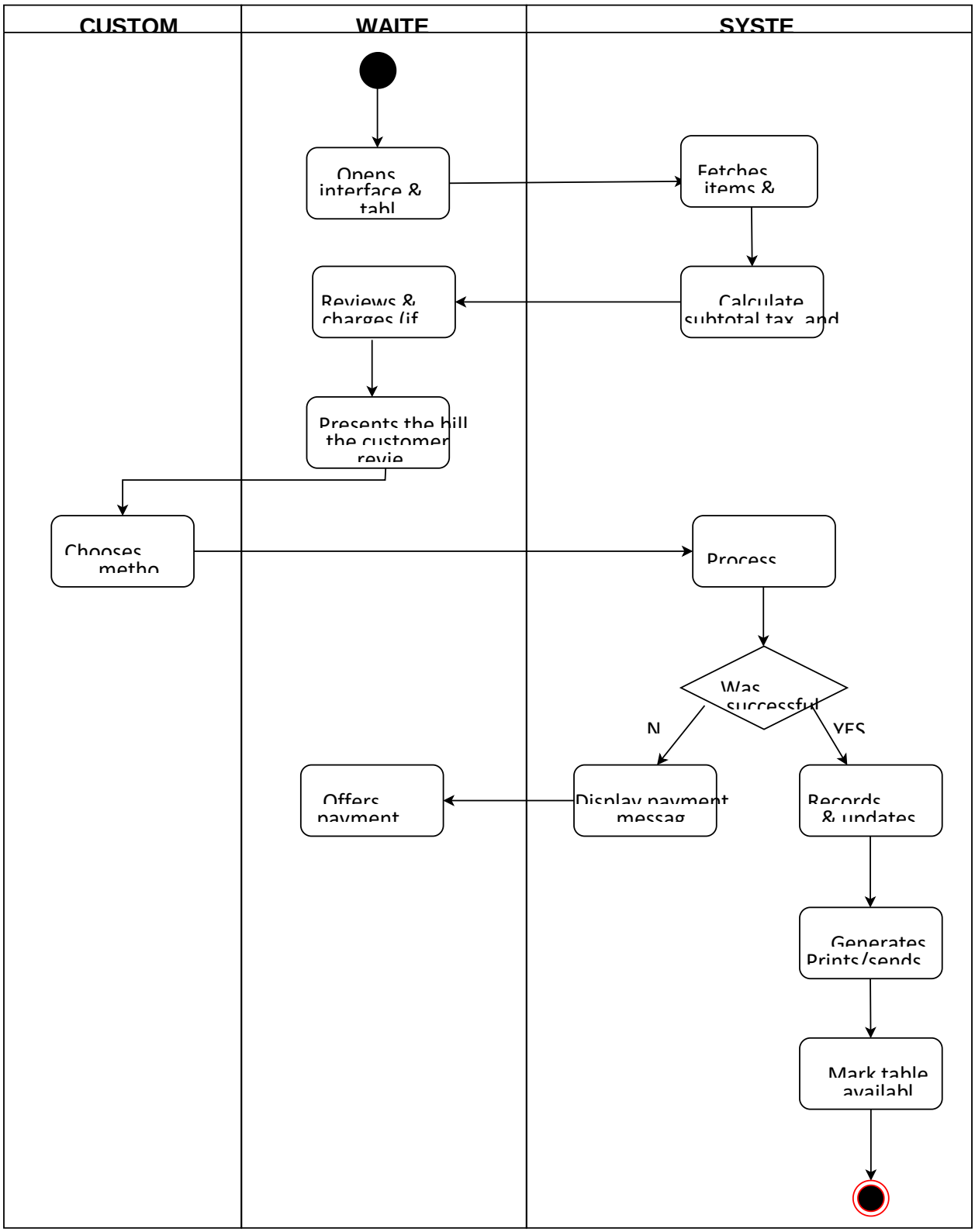


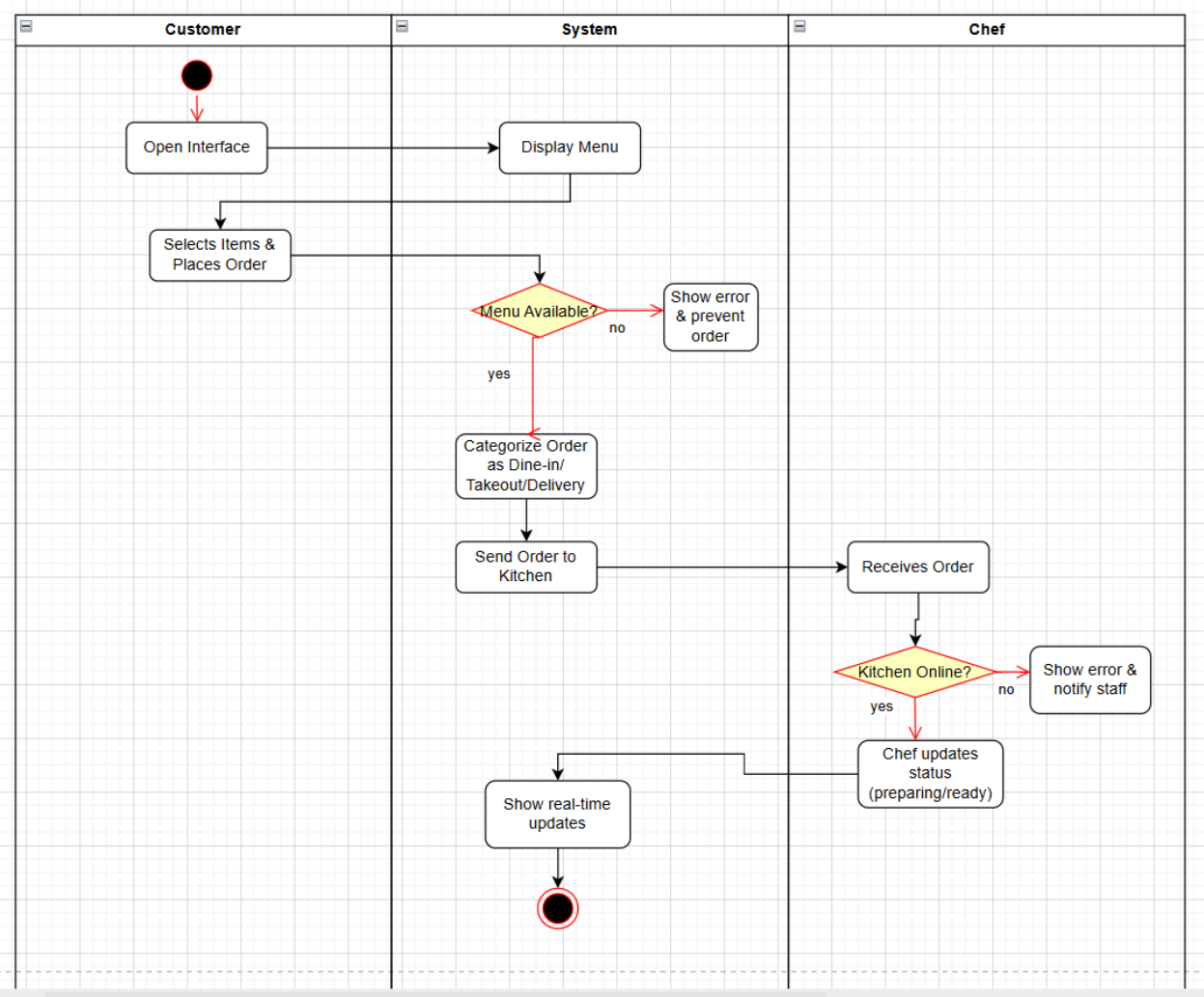
ACTIVITY DIAGRAM : TABLE RESERVATION

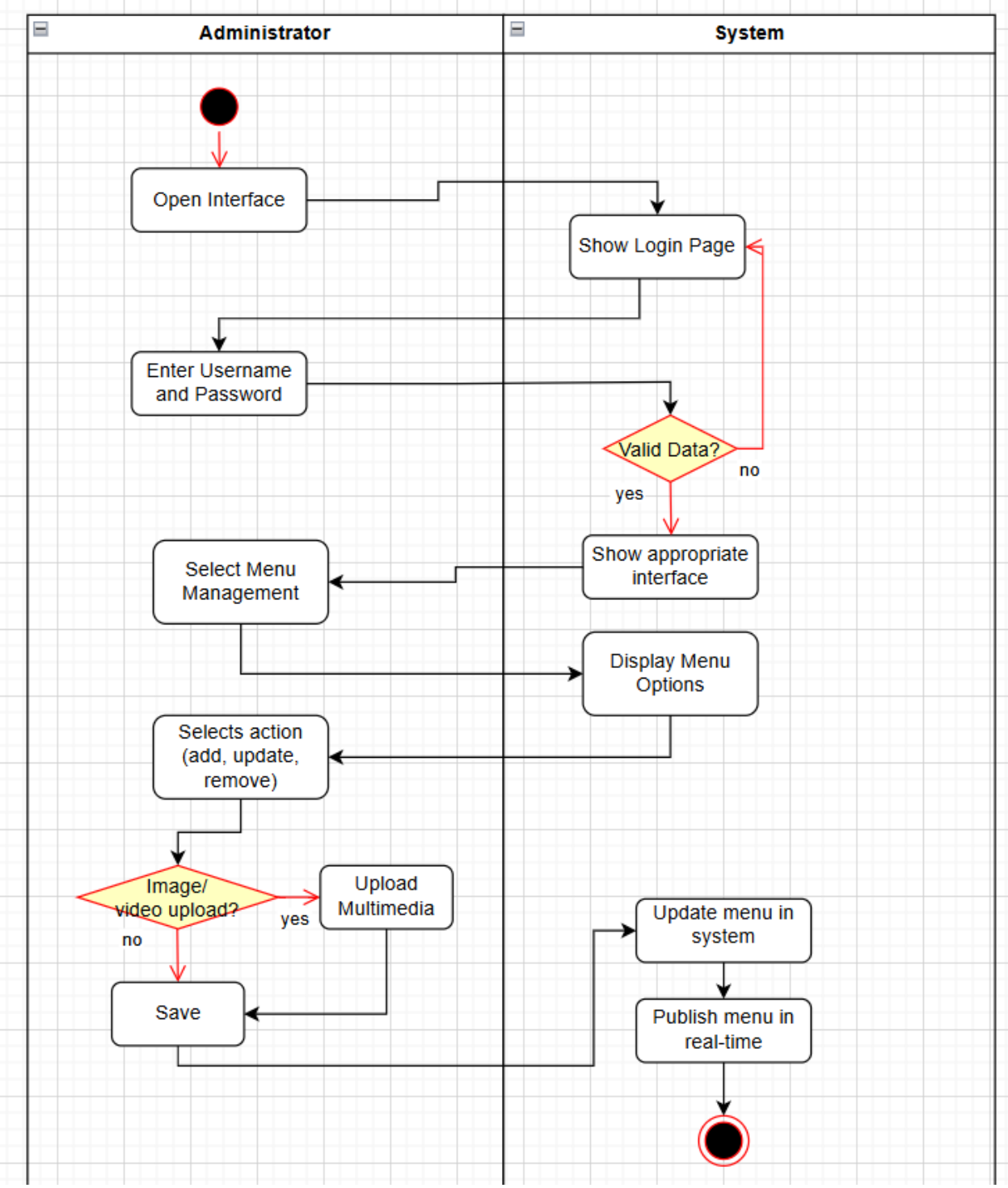


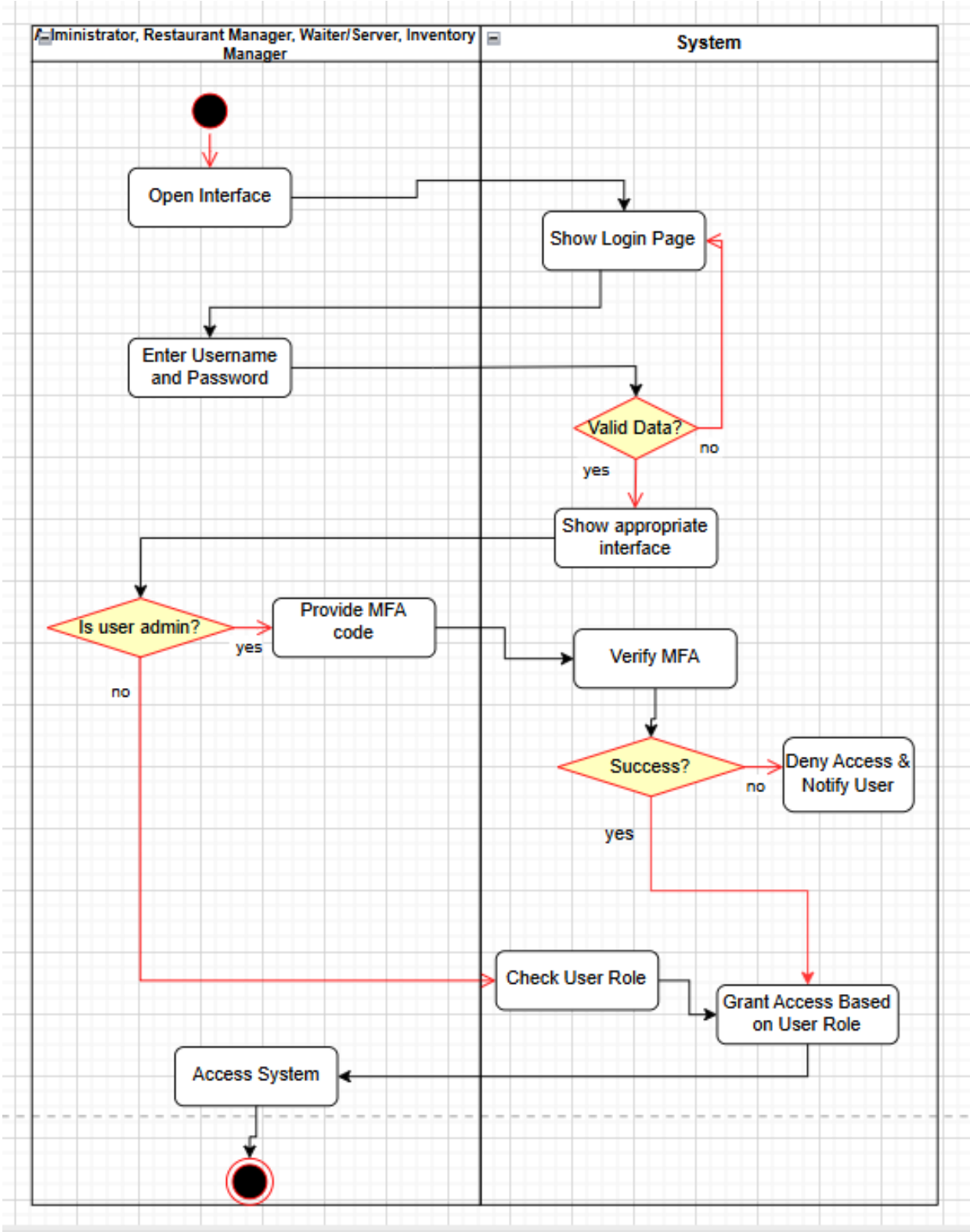

INVENTORY MANAGER
SYSTEM
Text
Logs into the system and navigates to the inventory module.
Displays list of all ingredients and current stock levels.
Clicks on "Increase Stock" and selects ingredients from the list
Enters the quantity received, supplier name, and delivery reference
Validates input fields
Is Input Valid?
NO
YES
Corrects input & resubmits
Show Error Meassage
Updates stock in database
Add new ingredient record
Logstransanction with timestamp & user
Shows confirmation & updated stock

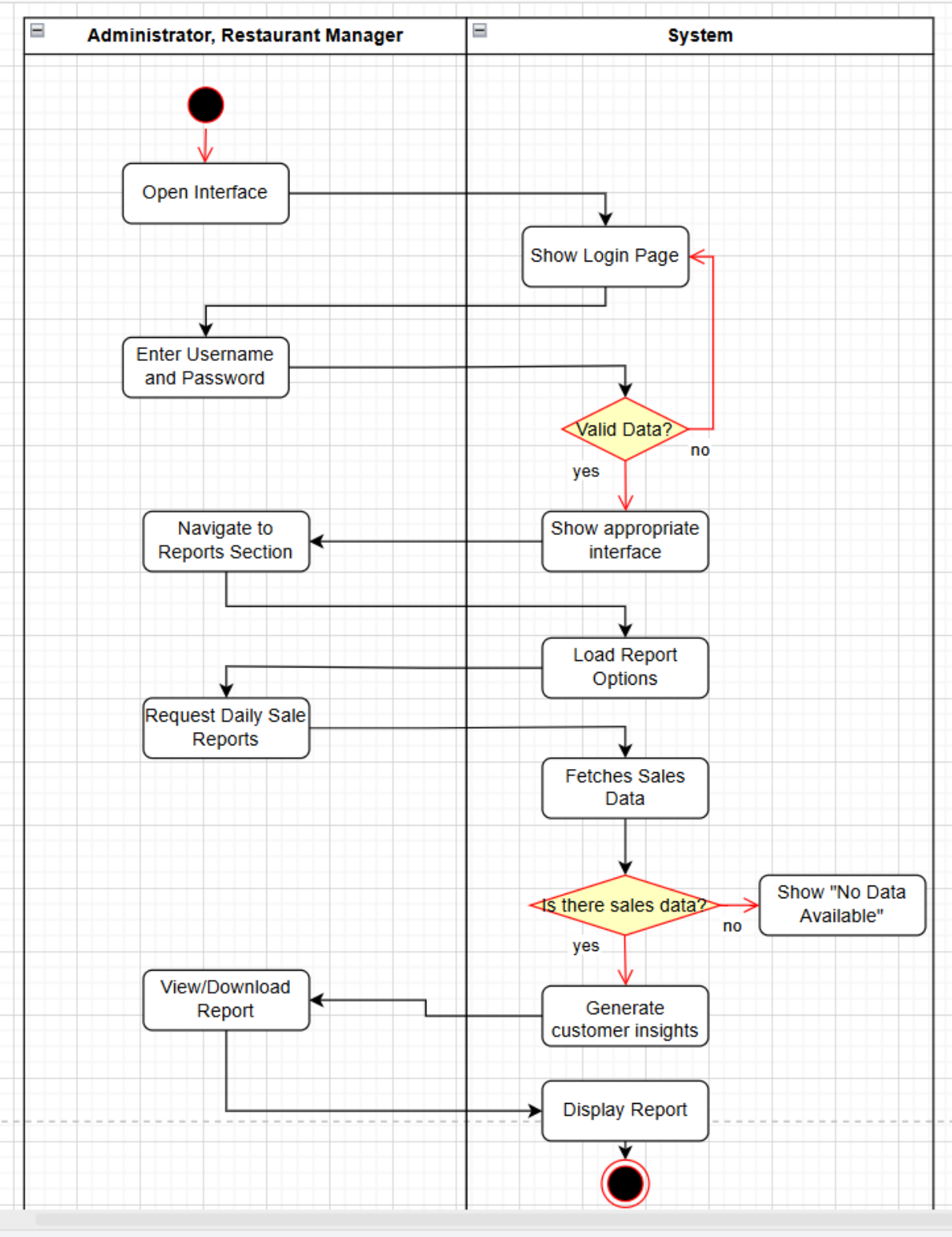
ACTIVITY DIAGRAM : BILL GENERATION & PAYMENT PROCESSING

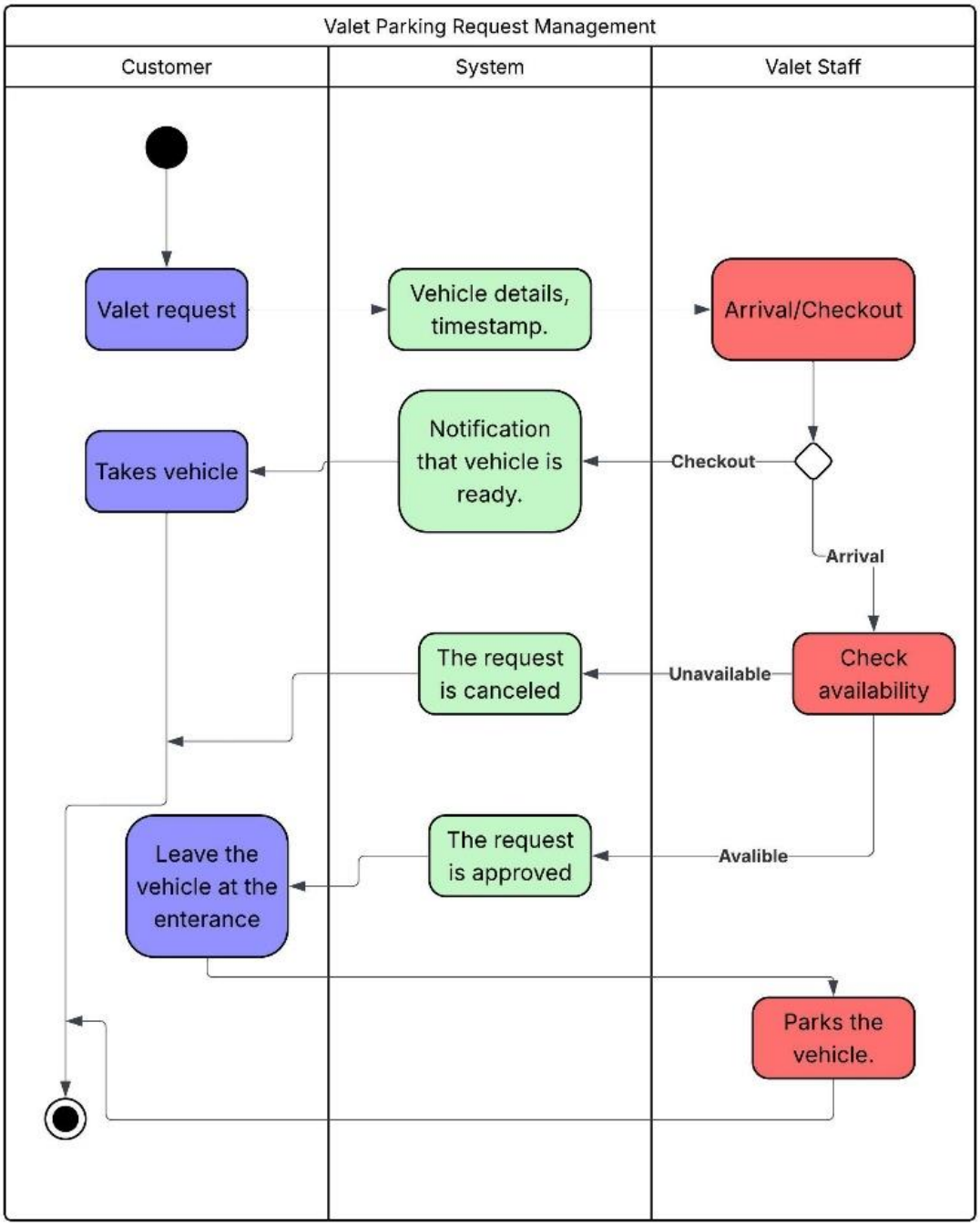


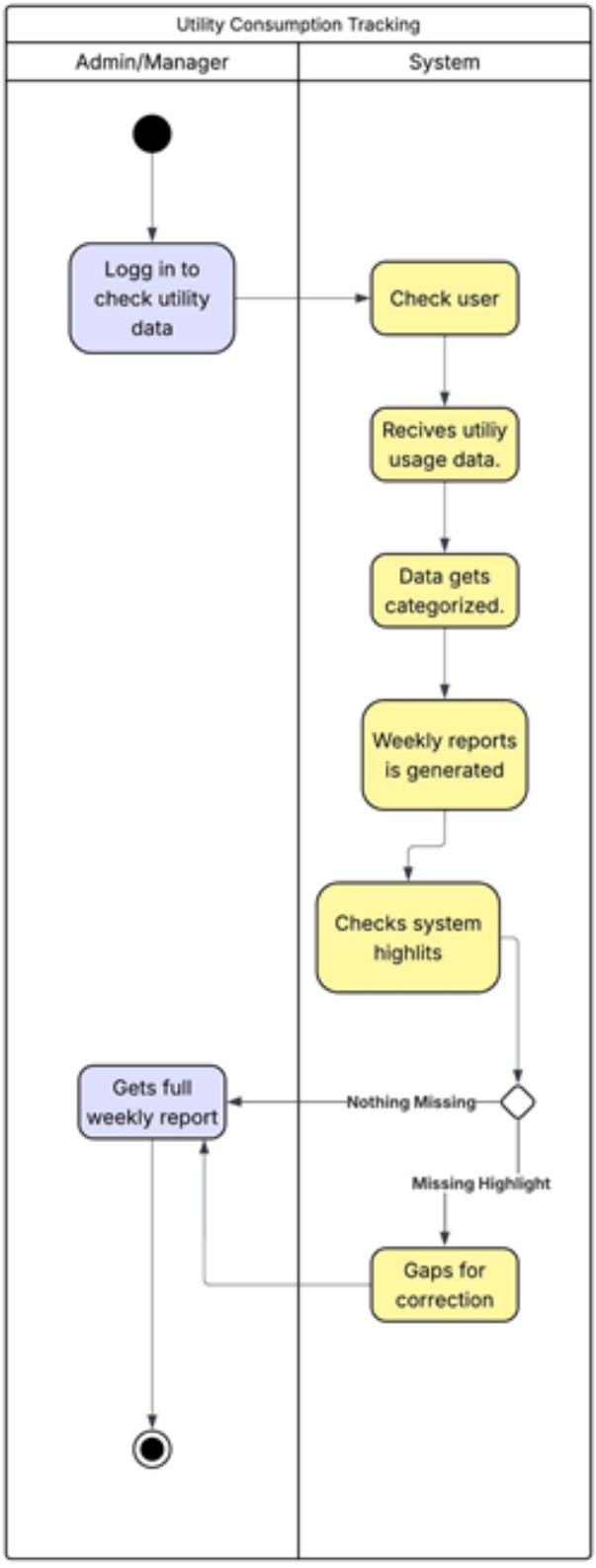

Customer
System
Chef
Open Interface
Display Menu
Selects Items & Places Order
Menu Available?
no
Show error & prevent order
yes
Categorize Order as Dine-in/ Takeout/Delivery
Send Order to Kitchen
Receives Order
Kitchen Online?
no
Show error & notify staff
yes
Chef updates status (preparing/ready)
Show real-time updates

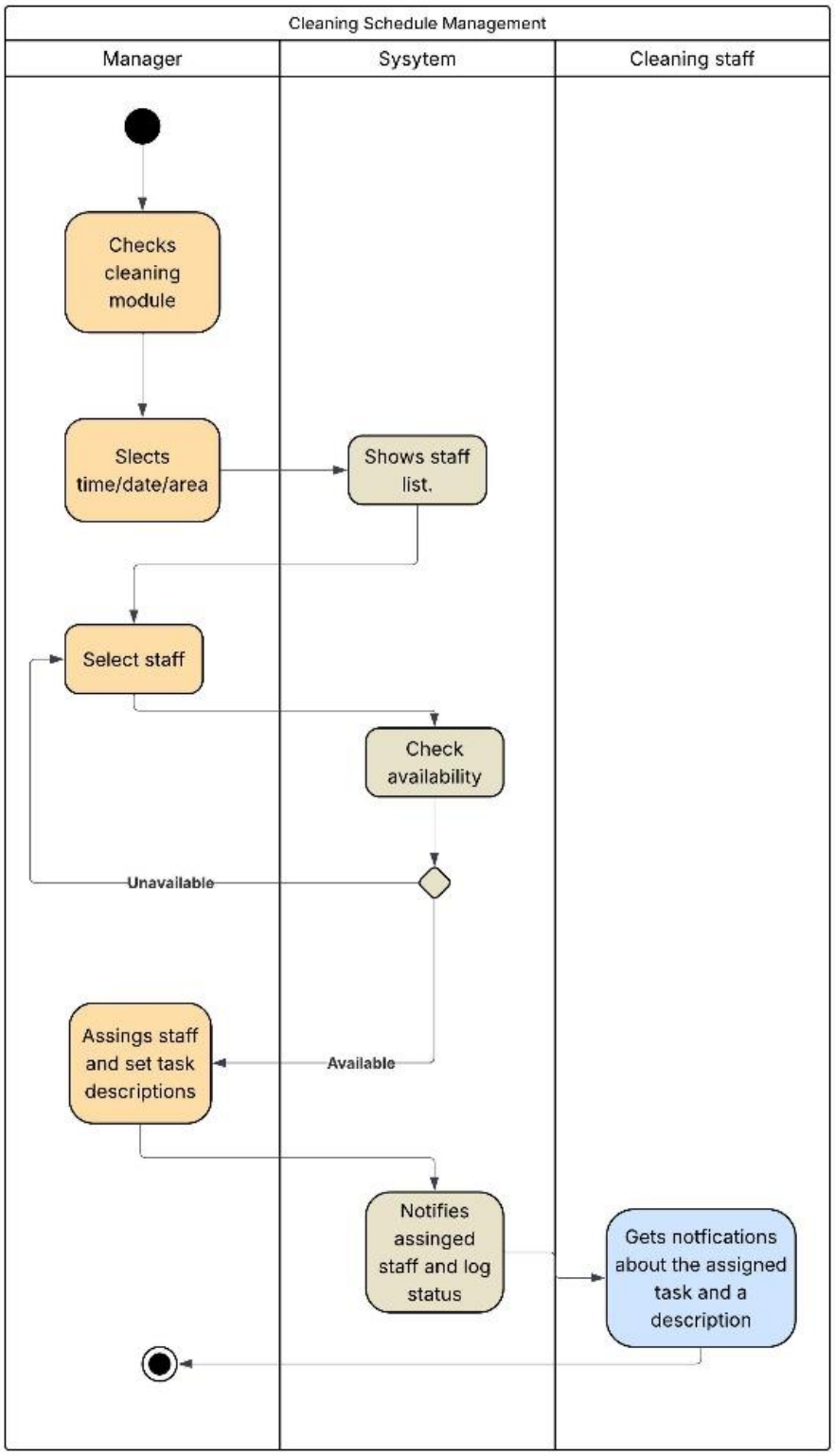

Administrator
System
Open Interface
Show Login Page
Enter Username and Password
Valid Data?
no
yes
Show appropriate interface
Select Menu Management
Display Menu Options
Selects action (add, update, remove)
Image/ video upload?
yes
no
Upload Multimedia
Save
Update menu in system
Publish menu in real-time

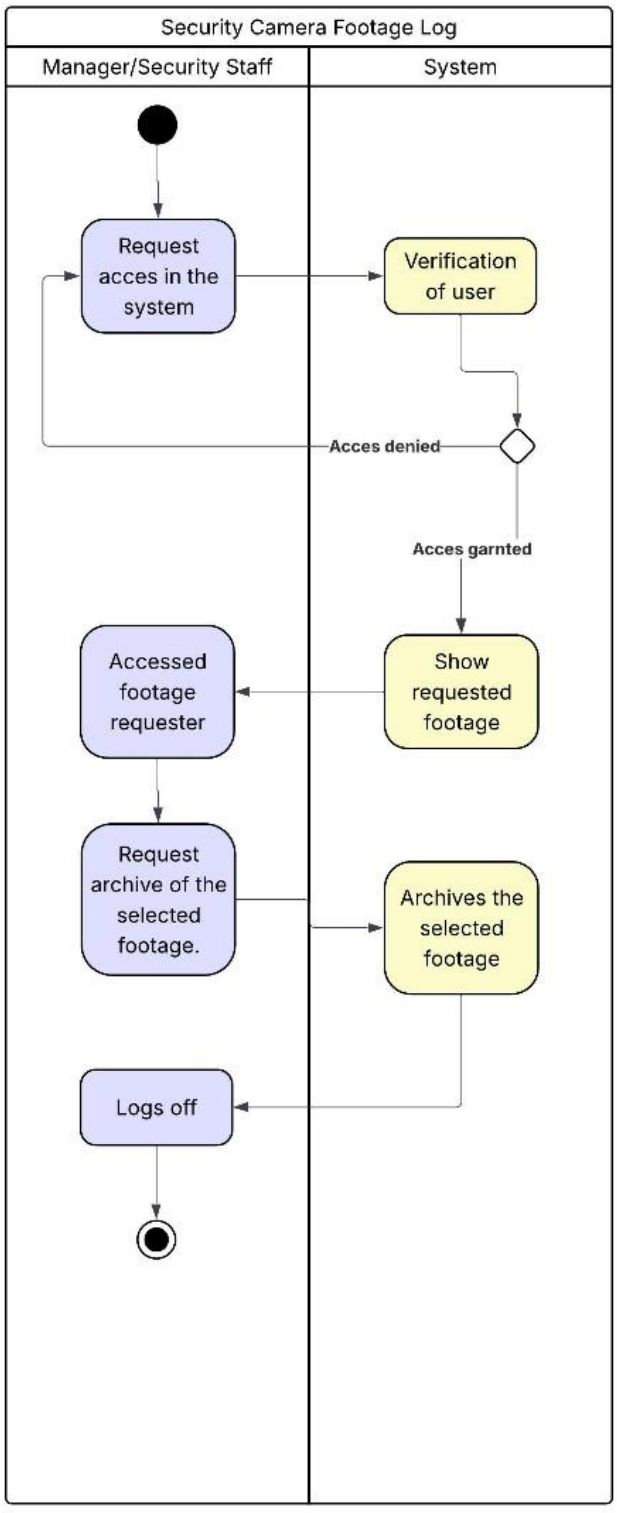

Iministrator, Restaurant Manager, Waiter/Server, Inventory Manager
System
Open Interface
Show Login Page
Enter Username and Password
Valid Data?
no
yes
Show appropriate interface
Is user admin?
yes
Provide MFA code
Verify MFA
no
Success?
no
Deny Access & Notify User
yes
Check User Role
Grant Access Based on User Role
Access System

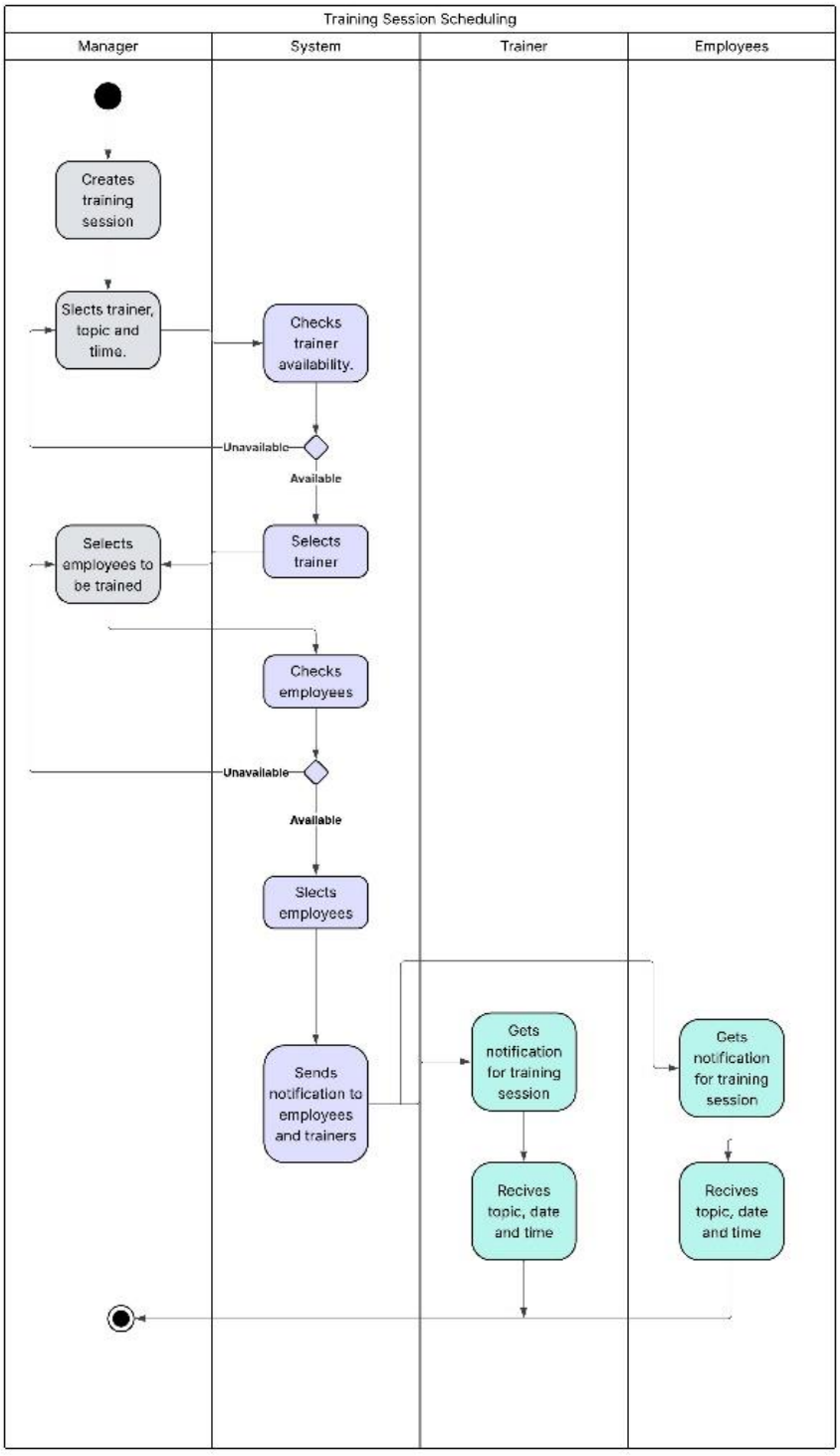

Administrator, Restaurant Manager
System
Open Interface
Show Login Page
Enter Username and Password
Valid Data?
no
yes
Navigate to Reports Section
Show appropriate interface
Load Report Options
Request Daily Sale Reports
Fetches Sales Data
Is there sales data?
Show "No Data Available"
no
yes
View/Download Report
Generate customer insights
Display Report

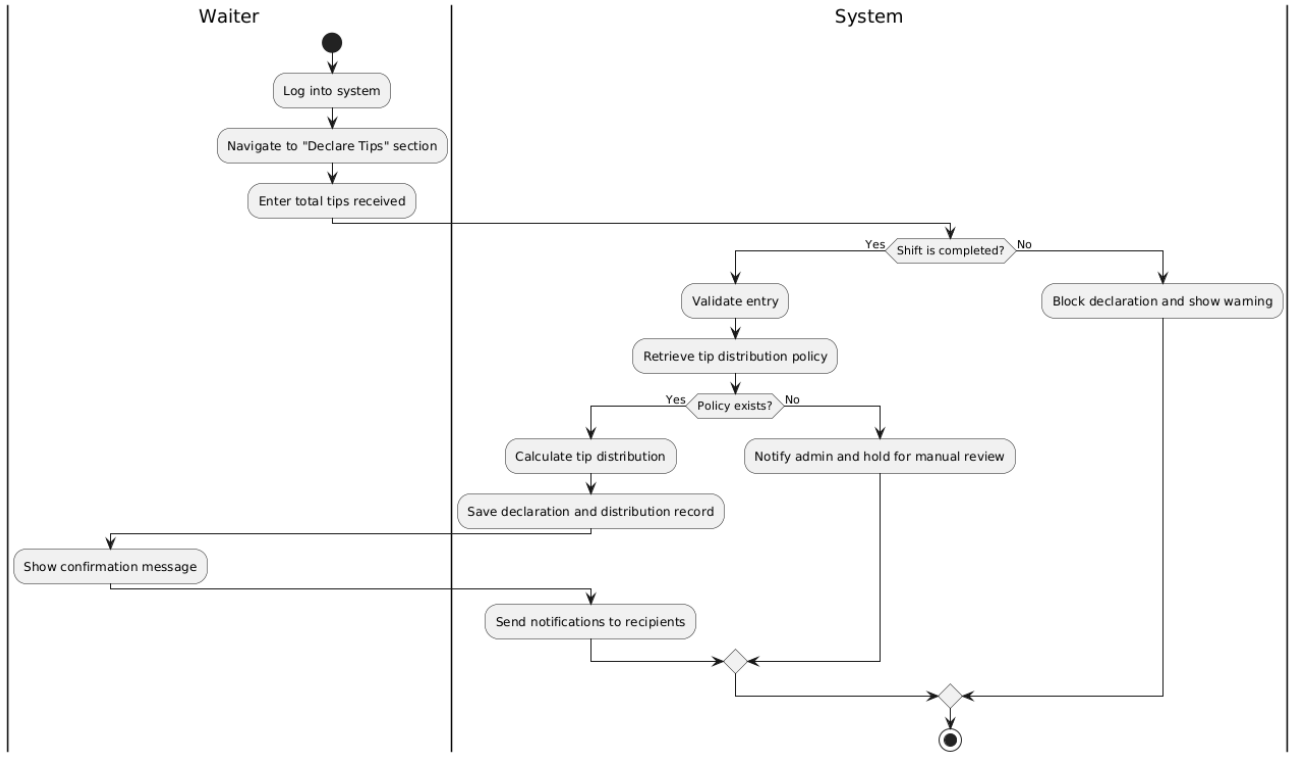

Valet Parking Request Management
Customer
System
Valet Staff
Valet request
Vehicle details, timestamp.
Arrival/Checkout
Takes vehicle
Notification that vehicle is ready.
Checkout
Arrival
The request is canceled
Unavailable
Check availability
Leave the vehicle at the enterance
The request is approved
Avalible
Parks the vehicle.

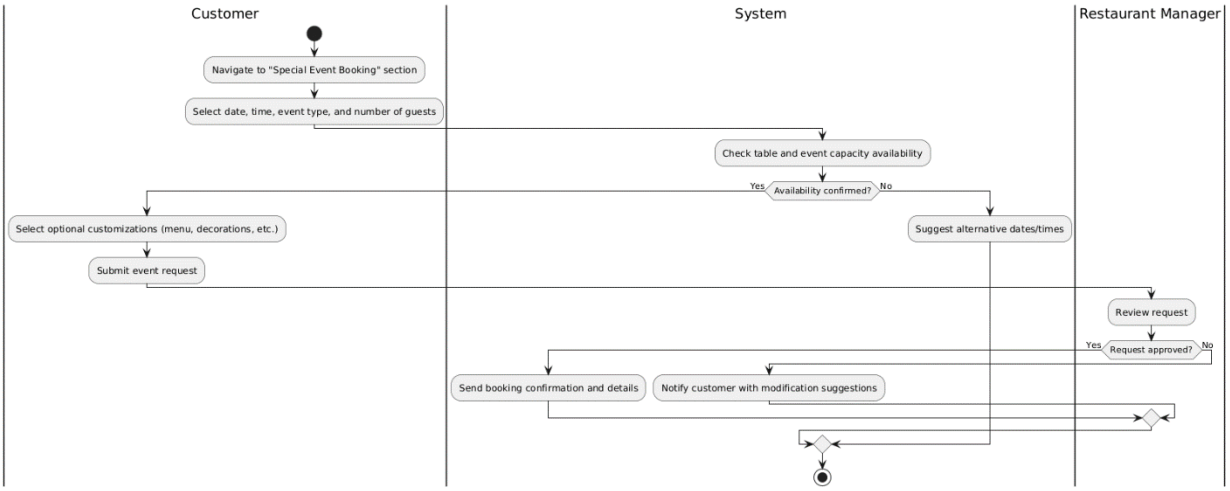

Utility Consumption Tracking
Admin/Manager
System
Logg in to check utility data
Check user
Recives utiliy usage data.
Data gets categorized.
Weekly reports is generated
Checks system highlits
Gets full weekly report
Nothing Missing
Missing Highlight
Gaps for correction

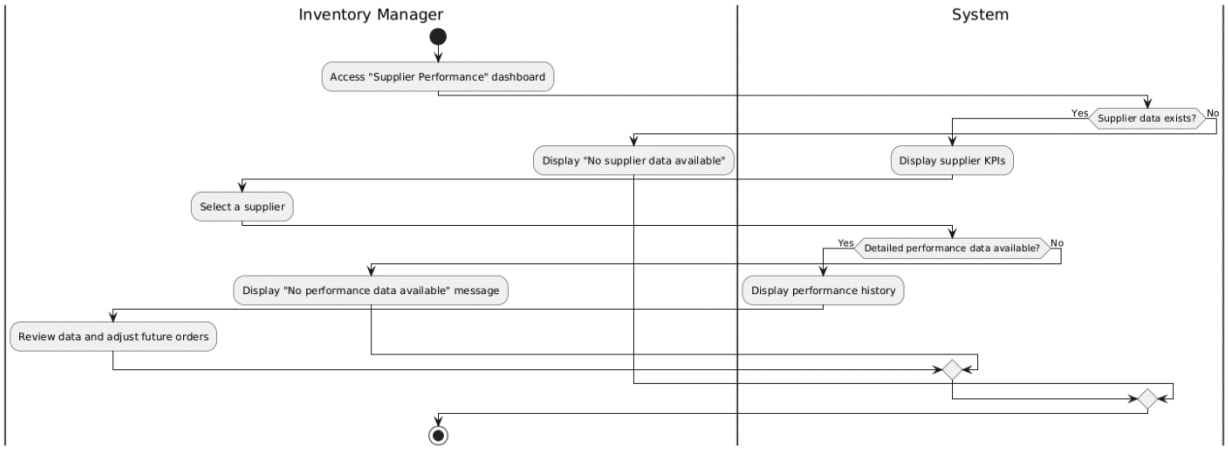

Cleaning Schedule Management
Manager
Sysytem
Cleaning staff
Checks cleaning module
Slects time/date/area
Shows staff list.
Select staff
Check availability
Unavailable
Available
Assings staff and set task descriptions
Notifies assinged staff and log status
Gets notfications about the assigned task and a description

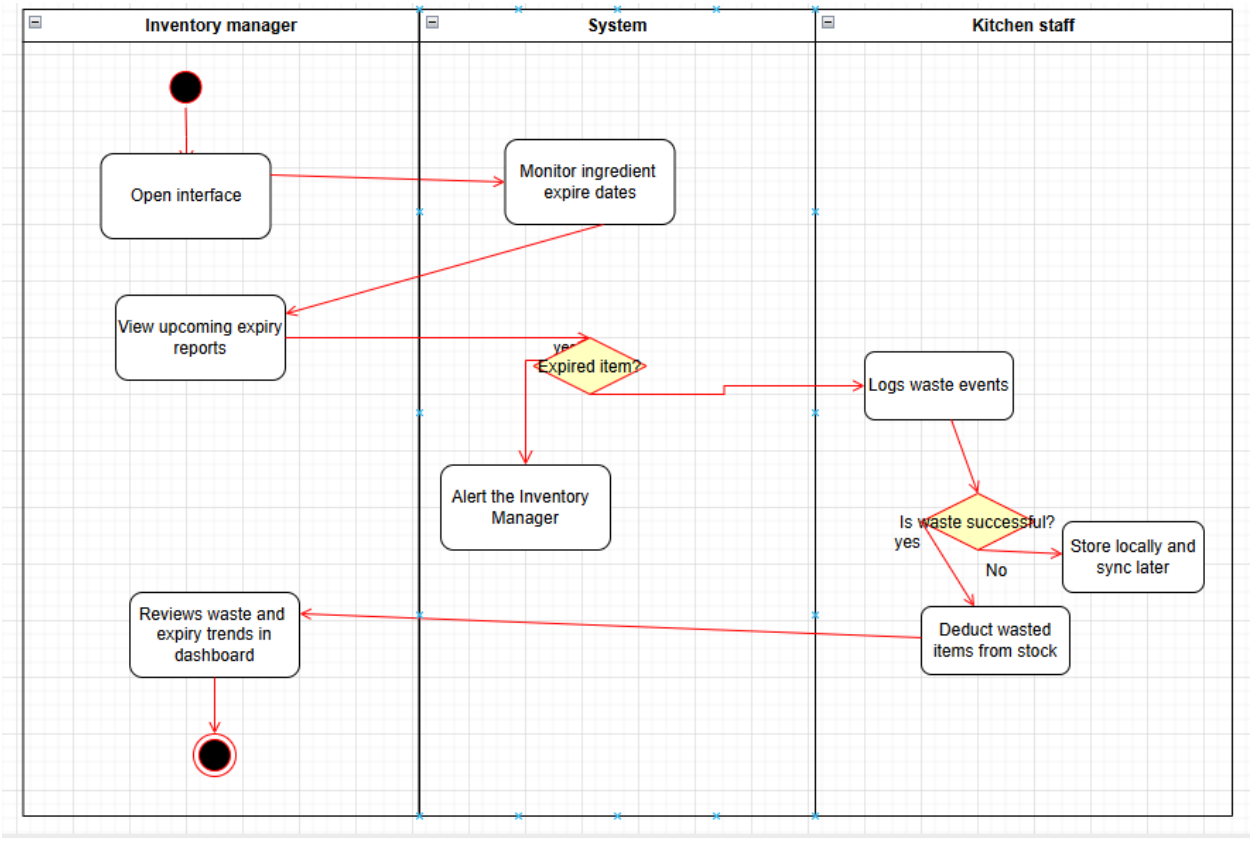

Security Camera Footage Log
Manager/Security Staff
System
Request acces in the system
Verification of user
Acces denied
Acces garnted
Accessed footage requester
Show requested footage
Request archive of the selected footage.
Archives the selected footage
Logs off

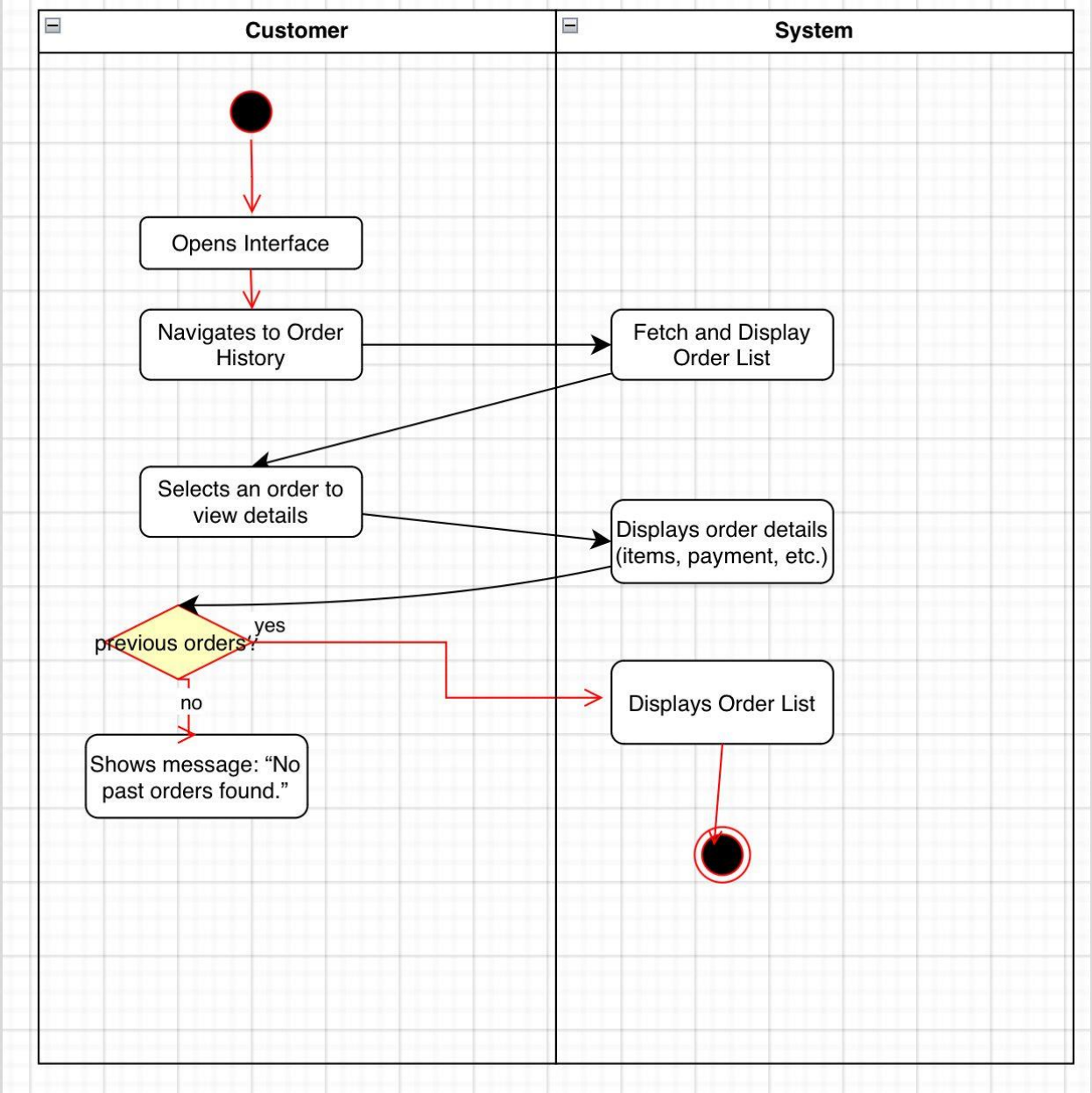

Training Session Scheduling
Manager
System
Trainer
Employees
Creates training session
Slects trainer, topic and time.
Checks trainer availability.
Unavailable
Available
Selects employees to be trained
Selects trainer
Checks employees
Unavailable
Available
Slects employees
Sends notification to employees and trainers
Gets notification for training session
Recives topic, date and time
Gets notification for training session
Recives topic, date and time

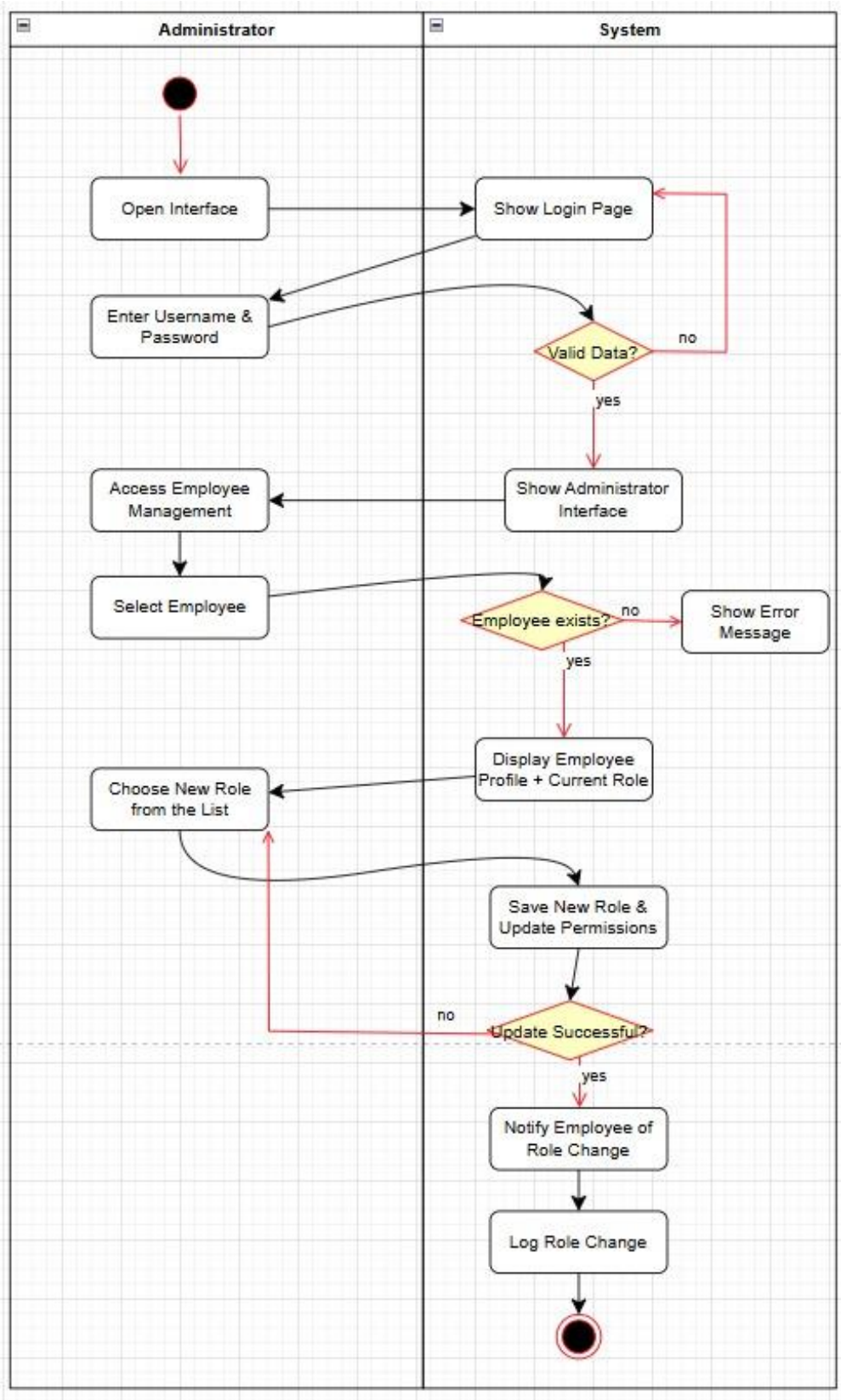

Waiter
System
Log into system
Navigate to "Declare Tips" section
Enter total tips received
Shift is completed?
Yes
No
Validate entry
Block declaration and show warning
Retrieve tip distribution policy
Policy exists?
Yes
No
Calculate tip distribution
Notify admin and hold for manual review
Save declaration and distribution record
Show confirmation message
Send notifications to recipients

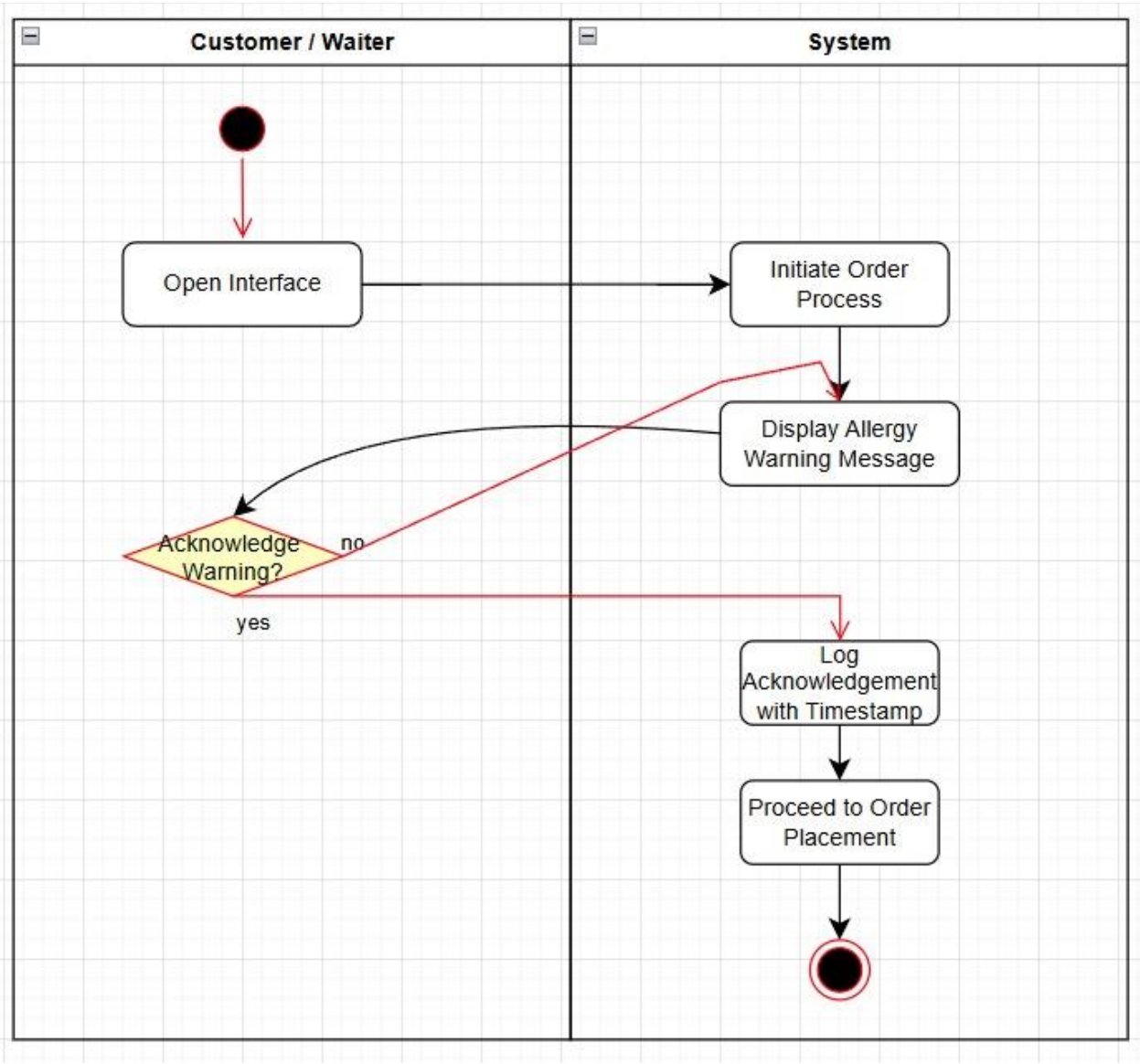

Customer
System
Restaurant Manager
Navigate to "Special Event Booking" section
Select date, time, event type, and number of guests
Check table and event capacity availability
Availability confirmed?
Yes
No
Select optional customizations (menu, decorations, etc.)
Suggest alternative dates/times
Submit event request
Review request
Request approved?
Yes
No
Send booking confirmation and details
Notify customer with modification suggestions

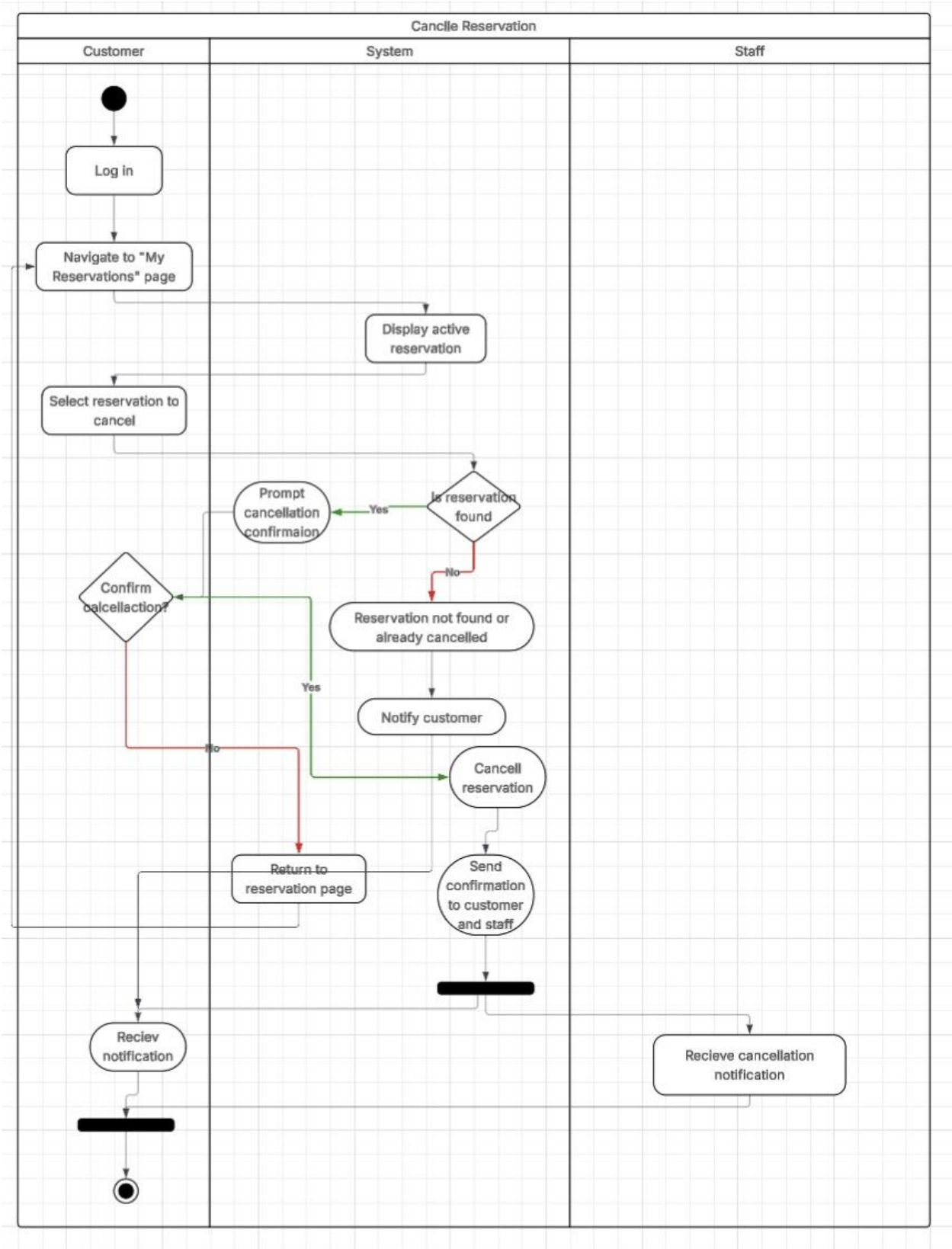

Inventory Manager
System
Access "Supplier Performance" dashboard
Supplier data exists?
Yes
No
Display "No supplier data available"
Display supplier KPIs
Select a supplier
Detailed performance data available?
Yes
No
Display "No performance data available" message
Display performance history
Review data and adjust future orders

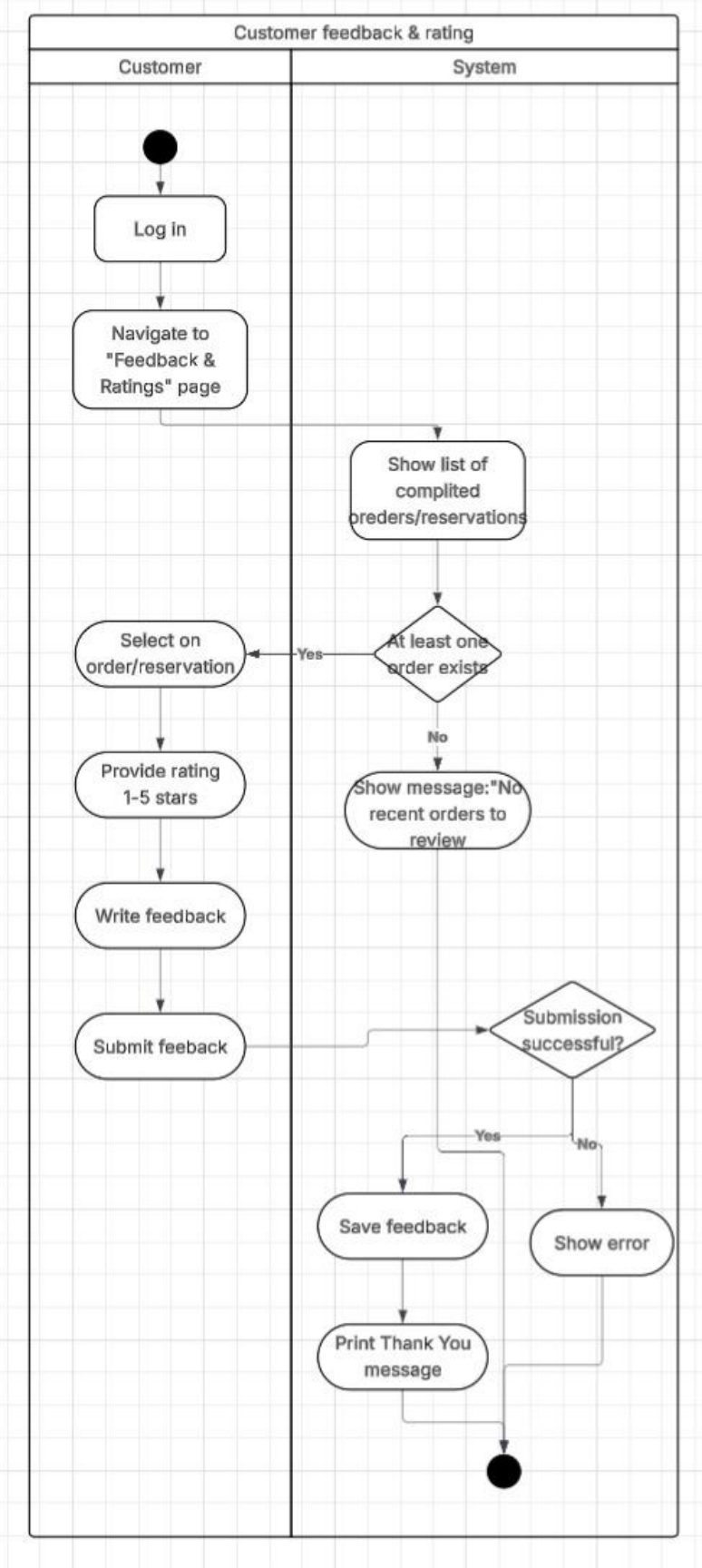

Inventory manager
System
Kitchen staff
Open interface
Monitor ingredient expire dates
View upcoming expiry reports
Expired item?
Logs waste events
Alert the Inventory Manager
Is waste successful?
yes
No
Store locally and sync later
Reviews waste and expiry trends in dashboard
Deduct wasted items from stock

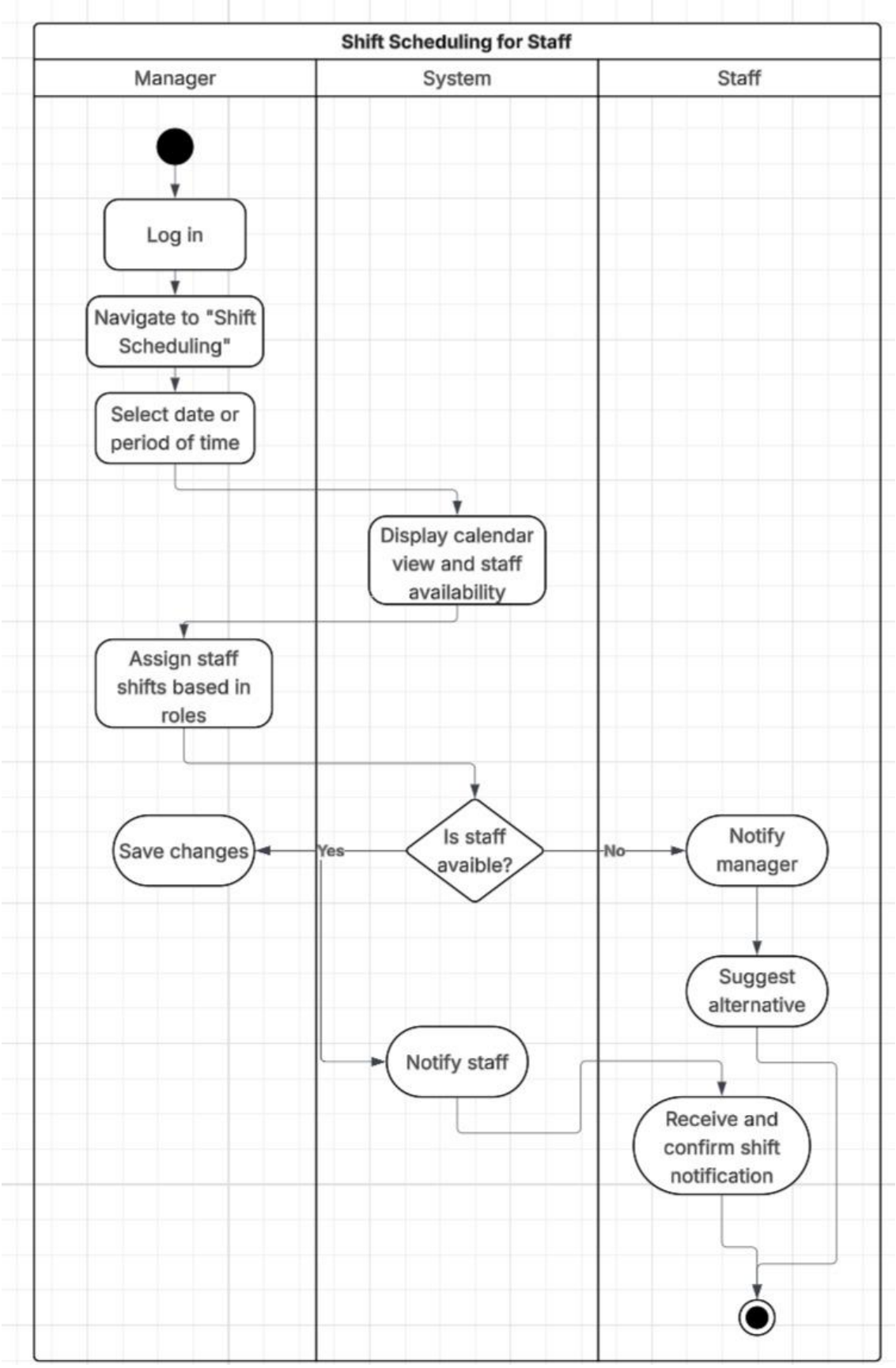

Customer
System
Opens Interface
Navigates to Order History
Fetch and Display Order List
Selects an order to view details
Displays order details (items, payment, etc.)
previous orders?
yes
no
Displays Order List
Shows message: “No past orders found.”

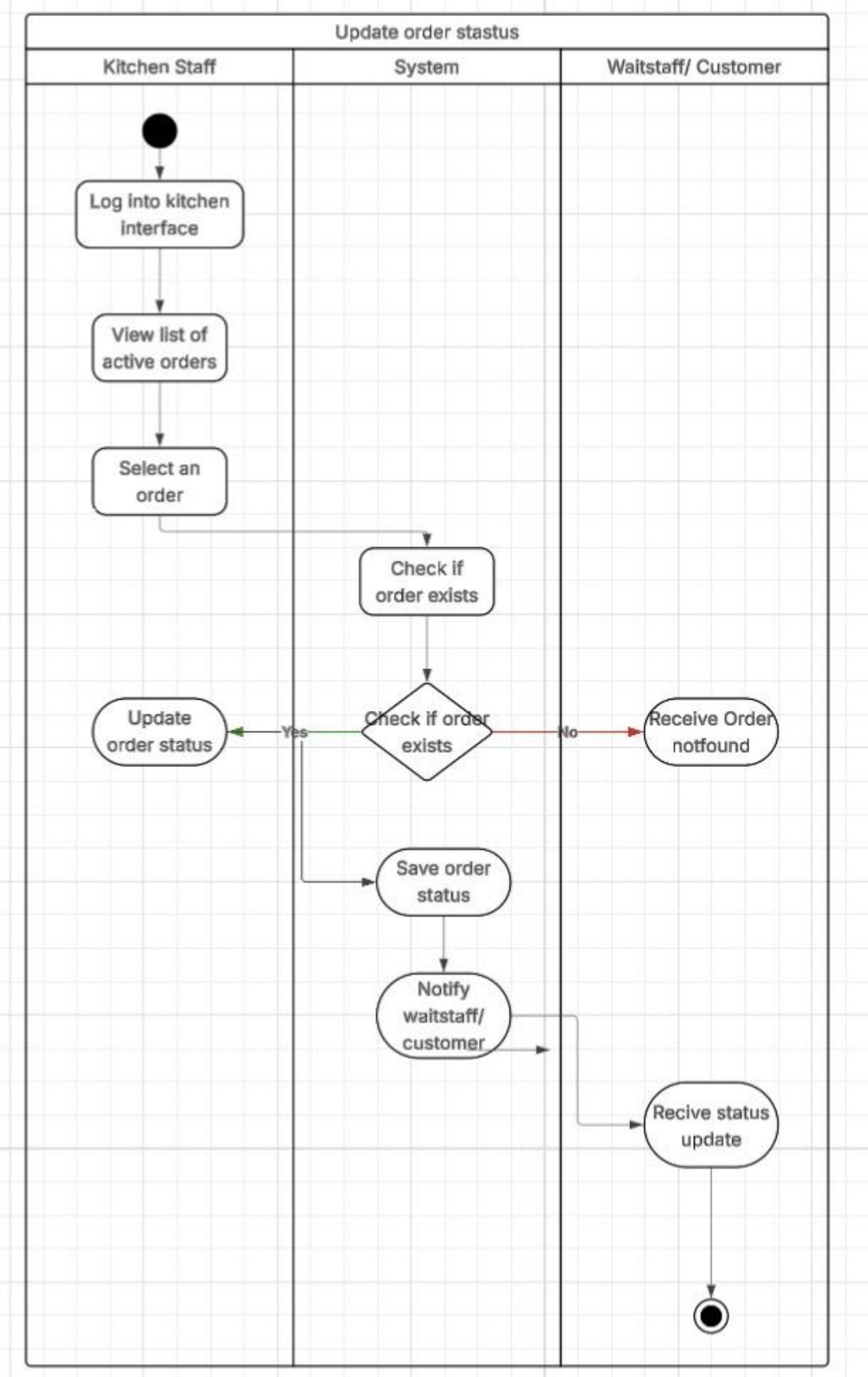

Administrator
System
Open Interface
Show Login Page
Enter Username & Password
Valid Data?
no
yes
Access Employee Management
Show Administrator Interface
Select Employee
Employee exists?
no
Show Error Message
yes
Display Employee Profile + Current Role
Choose New Role from the List
Save New Role & Update Permissions
no
Update Successful?
yes
Notify Employee of Role Change
Log Role Change


Customer / Waiter
System
Open Interface
Initiate Order Process
Display Allergy Warning Message
Acknowledge Warning?
no
yes
Log Acknowledgement with Timestamp
Proceed to Order Placement


Cancle Reservation
Customer
System
Staff
Log in
Navigate to "My Reservations" page
Display active reservation
Select reservation to cancel
Is reservation found
Yes
Prompt cancellation confirmaion
No
Reservation not found or already cancelled
Notify customer
Confirm calcellaction?
Yes
No
Cancell reservation
Return to reservation page
Send confirmation to customer and staff
Reciev notification
Recieve cancellation notification


Customer feedback & rating
Customer
System
Log in
Navigate to "Feedback & Ratings" page
Show list of complited oreders/reservations
At least one order exists
Yes
Select on order/reservation
No
Show message:"No recent orders to review
Provide rating 1-5 stars
Write feedback
Submit feeback
Submission successful?
Yes
No
Save feedback
Show error
Print Thank You message


Shift Scheduling for Staff
Manager
System
Staff
Log in
Navigate to "Shift Scheduling"
Select date or period of time
Display calendar view and staff availability
Assign staff shifts based in roles
Is staff avaible?
Yes
No
Save changes
Notify manager
Suggest alternative
Notify staff
Receive and confirm shift notification


Update order stastus
Kitchen Staff
System
Waitstaff/ Customer
Log into kitchen interface
View list of active orders
Select an order
Check if order exists
Check if order exists
Yes
No
Update order status
Receive Order notfound
Save order status
Notify waitstaff/ customer
Recive status update