1. Customer Entry

Use Case: CustomerEntry

Scope: SmartStoreSystem

Level: SUMMARY

Intention: "A customer intends to enter the smart store."

Multiplicity: "Multiple customers can enter the store simultaneously."

Primary Actor: HUMAN::Customer::1..*

Secondary Actor:

GANTRY::EntryGate::1..1

SENSOR::Camera::1..1

Facilitator Actor:

PHYSICAL_ENTITY::MobileDevice::1..1

PHYSICAL_ENTITY::CreditCard::0..1

Main Success Scenario:

"The Customer approaches the EntryGate."

[ScanDeviceOrCard] "The Customer scans their MobileDevice or CreditCard at the EntryGate."

[VerifyCustomer] "The system verifies the Customer's identity using the scanned information."

[CaptureCustomerImage] "The Camera captures an image of the Customer."

[AssociateImageWithCustomer] "The system associates the captured image with the Customer's profile."

"The EntryGate opens, allowing the Customer to enter the store."

Use Case Ends in: SUCCESS

Extensions:

Alternative for 1:

1a. "The Customer does not have Internet access."

1a.1. "The Customer uses their CreditCard (pre-registered via the mobile app) to enter the store."

1a.2. [VerifyCustomer] "The system verifies the Customer's identity using the CreditCard."

1a.3. [CaptureCustomerImage] "The Camera captures an image of the Customer."

1a.4. [AssociateImageWithCustomer] "The system associates the captured image with the Customer's profile."

1a.5. "The EntryGate opens, allowing the Customer to enter the store."

Use Case Ends in: SUCCESS

Alternative for 2:

2a. "The system fails to verify the Customer's identity."

2a.1. [HandleIdentityVerificationFailure] "The system displays an error message to the Customer."

Use Case Ends in: FAILURE

Alternative for 3:

3a. "The Camera fails to capture the Customer's image."

3a.1. [HandleImageCaptureFailure] "The system attempts to capture the image again."

3a.2. "If the image cannot be captured, the system logs the error and continues."

Use Case Ends in: DEGRADED

Exception for (1-6):

(1-6)a.^ timeout:30s "The system fails to complete the entry process within 30 seconds."

(1-6)a.1. {SOFTWARE_EXCEPTION::SystemProcessingFailure} "The system logs the error and notifies the Customer."

Use Case Ends in: DEGRADED

Exception for (1-6):

(1-6)b. {HARDWARE_EXCEPTION::EntryGateFailure} "The EntryGate fails to function correctly."

(1-6)b.1. [HandleEntryGateFailure] "The system notifies the Customer and directs them to a different entry point."

Use Case Ends in: DEGRADED

Exception for (1-6):

(1-6)c. {HARDWARE_EXCEPTION::CameraFailure} "The Camera fails to function correctly."

(1-6)c.1. [HandleCameraFailure] "The system logs the error and continues."

Use Case Ends in: DEGRADED

2. Customer Exit

Use Case: CustomerExit

Scope: SmartStoreSystem

Level: SUMMARY

Intention: "A customer intends to exit the smart store."

Multiplicity: "Multiple customers can exit the store simultaneously."

Primary Actor: HUMAN::Customer::1..*

Secondary Actor:

GANTRY::ExitGate::1..1

SOFTWARE::PaymentService::1..1

Facilitator Actor:

PHYSICAL_ENTITY::MobileDevice::1..1

PHYSICAL_ENTITY::CreditCard::0..1

Main Success Scenario:

"The Customer approaches the ExitGate."

[ScanDeviceOrCard] "The Customer scans their MobileDevice or CreditCard at the ExitGate."

[VerifyCustomer] "The system verifies the Customer's identity using the scanned information."

[ProcessPayment] "The PaymentService processes the payment for the items in the Customer's virtual cart."

"The ExitGate opens, allowing the Customer to exit the store."

Use Case Ends in: SUCCESS

Extensions:

Alternative for 1:

1a. "The Customer does not have Internet access."

1a.1. "The Customer uses their CreditCard (pre-registered via the mobile app) to exit the store."

1a.2. [VerifyCustomer] "The system verifies the Customer's identity using the CreditCard."

1a.3. [ProcessPayment] "The PaymentService processes the payment for the items in the Customer's virtual cart."

1a.4. "The ExitGate opens, allowing the Customer to exit the store."

Use Case Ends in: SUCCESS

Alternative for 2:

2a. "The system fails to verify the Customer's identity."

2a.1. [HandleIdentityVerificationFailure] "The system displays an error message to the Customer."

Use Case Ends in: FAILURE

Alternative for 3:

3a. "The PaymentService fails to process the payment."

3a.1. [HandlePaymentProcessingFailure] "The system attempts to process the payment again."

3a.2. "If the payment cannot be processed, the system notifies the Customer and allows them to exit the store."

Use Case Ends in: DEGRADED

Exception for (1-5):

(1-5)a.^ timeout:30s "The system fails to complete the exit process within 30 seconds."

(1-5)a.1. {SOFTWARE_EXCEPTION::SystemProcessingFailure} "The system logs the error and notifies the Customer."

Use Case Ends in: DEGRADED

Exception for (1-5):

(1-5)b. {HARDWARE_EXCEPTION::ExitGateFailure} "The ExitGate fails to function correctly."

(1-5)b.1. [HandleExitGateFailure] "The system notifies the Customer and directs them to a different exit point."

Use Case Ends in: DEGRADED

Exception for (1-5):

(1-5)c. {SOFTWARE_EXCEPTION::PaymentServiceFailure} "The PaymentService fails to function correctly."

(1-5)c.1. [HandlePaymentServiceFailure] "The system logs the error and notifies the Customer."

Use Case Ends in: DEGRADED

3. Item Identification

Use Case: ItemIdentification

Scope: SmartStoreSystem

Level: SUMMARY

Intention: "The system intends to identify items picked up by customers."

Multiplicity: "The system can identify multiple items simultaneously."

Primary Actor: None

Secondary Actor:

SENSOR::PressureSensor::1..*

SENSOR::WeightSensor::1..*

READER::TagReader::1..*

Main Success Scenario:

"The PressureSensor detects a change in pressure on a shelf."

"The WeightSensor detects the weight of an item being lifted from the shelf."

"The TagReader reads the tag number of the item."

[IdentifyItem] "The system identifies the item based on the sensor data and tag number."

Use Case Ends in: SUCCESS

Extensions:

Alternative for 1:

1a. "The PressureSensor fails to detect a change in pressure."

1a.1. [HandlePressureSensorFailure] "The system logs the error and continues."

Use Case Ends in: DEGRADED

Alternative for 2:

2a. "The WeightSensor fails to detect the weight of the item."

2a.1. [HandleWeightSensorFailure] "The system logs the error and continues."

Use Case Ends in: DEGRADED

Alternative for 3:

3a. "The TagReader fails to read the tag number."

3a.1. [HandleTagReaderFailure] "The system logs the error and continues."

Use Case Ends in: DEGRADED

Exception for (1-4):

(1-4)a.^ timeout:30s "The system fails to identify the item within 30 seconds."

(1-4)a.1. {SOFTWARE_EXCEPTION::ItemIdentificationFailure} "The system logs the error and continues."

Use Case Ends in: DEGRADED

Exception for (1-4):

(1-4)b. {HARDWARE_EXCEPTION::SensorFailure} "One or more sensors fail."

(1-4)b.1. [HandleSensorFailure] "The system attempts to identify the faulty sensor and notifies the staff."

Use Case Ends in: DEGRADED

4. Customer Recognition

Use Case: CustomerRecognition

Scope: SmartStoreSystem

Level: SUMMARY

Intention: "The system intends to recognize customers inside the store."

Multiplicity: "The system can recognize multiple customers simultaneously."

Primary Actor: None

Secondary Actor:

SENSOR::Camera::1..*

Main Success Scenario:

"The Camera captures an image of a Customer."

[RecognizeCustomer] "The system recognizes the Customer based on their associated image."

Use Case Ends in: SUCCESS

Extensions:

Alternative for 1:

1a. "The system fails to recognize the Customer."

1a.1. [HandleCustomerRecognitionFailure] "The system attempts to recognize the Customer again."

1a.2. "If the Customer cannot be recognized, the system logs the error and continues."

Use Case Ends in: DEGRADED

Exception for (1-2):

(1-2)a.^ timeout:30s "The system fails to recognize the Customer within 30 seconds."

(1-2)a.1. {SOFTWARE_EXCEPTION::CustomerRecognitionFailure} "The system logs the error and continues."

Use Case Ends in: DEGRADED

Exception for (1-2):

(1-2)b. {HARDWARE_EXCEPTION::CameraFailure} "The Camera fails to function correctly."

(1-2)b.1. [HandleCameraFailure] "The system logs the error and continues."

Use Case Ends in: DEGRADED

5. Virtual Cart Management

Use Case: VirtualCartManagement

Scope: SmartStoreSystem

Level: SUMMARY

Intention: "The system intends to manage virtual carts for each customer."

Multiplicity: "The system manages virtual carts for multiple customers."

Primary Actor: None

Secondary Actor:

HUMAN::Customer::1..*

Main Success Scenario:

[IdentifyItem] "The system identifies an item picked up by a Customer."

[AddToVirtualCart] "The system adds the item to the Customer's virtual cart."

Use Case Ends in: SUCCESS

Extensions:

Alternative for 1:

1a. "The Customer returns an item to the shelf."

1a.1. [RemoveFromVirtualCart] "The system removes the item from the Customer's virtual cart."

Use Case Ends in: SUCCESS

Exception for (1-2):

(1-2)a.^ timeout:30s "The system fails to update the virtual cart within 30 seconds."

(1-2)a.1. {SOFTWARE_EXCEPTION::VirtualCartUpdateFailure} "The system logs the error and continues."

Use Case Ends in: DEGRADED

6. Payment Processing

Use Case: PaymentProcessing

Scope: SmartStoreSystem

Level: SUMMARY

Intention: "The system intends to process payments for purchased items."

Multiplicity: "The system processes payments for multiple customers."

Primary Actor: None

Secondary Actor:

SOFTWARE::PaymentService::1..1

Main Success Scenario:

"The system receives a payment request from the Customer."

[ProcessPayment] "The PaymentService processes the payment using the Customer's pre-configured payment method."

Use Case Ends in: SUCCESS

Extensions:

Alternative for 1:

1a. "The PaymentService fails to process the payment."

1a.1. [HandlePaymentProcessingFailure] "The system attempts to process the payment again."

1a.2. "If the payment cannot be processed, the system notifies the Customer and allows them to exit the store."

Use Case Ends in: DEGRADED

Exception for (1-2):

(1-2)a.^ timeout:30s "The system fails to process the payment within 30 seconds."

(1-2)a.1. {SOFTWARE_EXCEPTION::PaymentProcessingFailure} "The system logs the error and notifies the Customer."

Use Case Ends in: DEGRADED

Exception for (1-2):

(1-2)b. {SOFTWARE_EXCEPTION::PaymentServiceFailure} "The PaymentService fails to function correctly."

(1-2)b.1. [HandlePaymentServiceFailure] "The system logs the error and notifies the Customer."

Use Case Ends in: DEGRADED

7. Staff Management

Use Case: StaffManagement

Scope: SmartStoreSystem

Level: SUMMARY

Intention: "The system intends to recognize staff and manage their interactions with items."

Multiplicity: "The system manages interactions for multiple staff members."

Primary Actor: HUMAN::Staff::1..*

Secondary Actor:

SENSOR::Camera::1..*

SENSOR::PressureSensor::1..*

SENSOR::WeightSensor::1..*

READER::TagReader::1..*

Main Success Scenario:

"The Camera captures an image of a Staff member."

[RecognizeStaff] "The system recognizes the Staff member based on their associated image."

[IdentifyItem] "The system identifies an item picked up by the Staff member using the sensors and tag reader."

"The system does not update the Staff member's virtual cart."

Use Case Ends in: SUCCESS

Extensions:

Alternative for 1:

1a. "The system fails to recognize the Staff member."

1a.1. [HandleStaffRecognitionFailure] "The system attempts to recognize the Staff member again."

1a.2. "If the Staff member cannot be recognized, the system logs the error and continues."

Use Case Ends in: DEGRADED

Exception for (1-4):

(1-4)a.^ timeout:30s "The system fails to complete the staff interaction process within 30 seconds."

(1-4)a.1. {SOFTWARE_EXCEPTION::SystemProcessingFailure} "The system logs the error and continues."

Use Case Ends in: DEGRADED

Exception for (1-4):

(1-4)b. {HARDWARE_EXCEPTION::SensorFailure} "One or more sensors fail."

(1-4)b.1. [HandleSensorFailure] "The system attempts to identify the faulty sensor and notifies the staff."

Use Case Ends in: DEGRADED

8. System Monitoring and Maintenance

Use Case: SystemMonitoringAndMaintenance

Scope: SmartStoreSystem

Level: SUMMARY

Intention: "The system intends to monitor its own health and allow staff to perform maintenance tasks."

Multiplicity: "The system monitors its health continuously and allows multiple staff members to perform maintenance."

Primary Actor: HUMAN::Staff::1..*

Secondary Actor:

SOFTWARE::SystemManagementInterface::1..1

Main Success Scenario:

"The Staff member accesses the SystemManagementInterface."

"The Staff member views system health information (e.g., sensor status, battery levels)."

"The Staff member performs maintenance tasks (e.g., calibrating sensors, replacing batteries)."

Use Case Ends in: SUCCESS

Extensions:

Exception for (1-3):

(1-3)a.^ timeout:30s "The system fails to respond to the Staff member's request within 30 seconds."

(1-3)a.1. {SOFTWARE_EXCEPTION::SystemManagementInterfaceFailure} "The system logs the error and notifies the Staff member."

Use Case Ends in: DEGRADED

Invoked Use Cases:

ScanDeviceOrCard:

Scope: GANTRY

Level: SUB_FUNCTION

Intention: "The gantry scans the Customer's MobileDevice or CreditCard."

Multiplicity: "The gantry can scan multiple devices or cards."

Primary Actor: None

Main Success Scenario:

"The gantry reads the information from the scanned device or card."

Use Case Ends in: SUCCESS

VerifyCustomer:

Scope: SmartStoreSystem

Level: SUB_FUNCTION

Intention: "The system verifies the Customer's identity."

Multiplicity: "The system can verify the identity of multiple customers."

Primary Actor: None

Main Success Scenario:

"The system checks the scanned information against the Customer's profile."

Use Case Ends in: SUCCESS

CaptureCustomerImage:

Scope: SENSOR::Camera

Level: SUB_FUNCTION

Intention: "The camera captures an image of the Customer."

Multiplicity: "The camera can capture images of multiple customers."

Primary Actor: None

Main Success Scenario:

"The camera takes a picture of the Customer."

Use Case Ends in: SUCCESS

AssociateImageWithCustomer:

Scope: SmartStoreSystem

Level: SUB_FUNCTION

Intention: "The system associates the captured image with the Customer's profile."

Multiplicity: "The system can associate images with multiple customers."

Primary Actor: None

Main Success Scenario:

"The system stores the captured image in the Customer's profile."

Use Case Ends in: SUCCESS

IdentifyItem:

Scope: SmartStoreSystem

Level: SUB_FUNCTION

Intention: "The system identifies an item based on sensor data and tag number."

Multiplicity: "The system can identify multiple items."

Primary Actor: None

Main Success Scenario:

"The system combines the data from the PressureSensor, WeightSensor, and TagReader."

"The system matches the data with the item's information in the store database."

Use Case Ends in: SUCCESS

AddToVirtualCart:

Scope: SmartStoreSystem

Level: SUB_FUNCTION

Intention: "The system adds an item to the Customer's virtual cart."

Multiplicity: "The system can add items to multiple virtual carts."

Primary Actor: None

Main Success Scenario:

"The system adds the identified item to the Customer's virtual cart."

Use Case Ends in: SUCCESS

RemoveFromVirtualCart:

Scope: SmartStoreSystem

Level: SUB_FUNCTION

Intention: "The system removes an item from the Customer's virtual cart."

Multiplicity: "The system can remove items from multiple virtual carts."

Primary Actor: None

Main Success Scenario:

"The system removes the identified item from the Customer's virtual cart."

Use Case Ends in: SUCCESS

ProcessPayment:

Scope: PaymentService

Level: SUB_FUNCTION

Intention: "The PaymentService processes the payment."

Multiplicity: "The PaymentService can process multiple payments."

Primary Actor: None

Main Success Scenario:

"The PaymentService receives the payment information."

"The PaymentService verifies the payment information."

"The PaymentService processes the payment."

Use Case Ends in: SUCCESS

RecognizeStaff:

Scope: SmartStoreSystem

Level: SUB_FUNCTION

Intention: "The system recognizes a Staff member."

Multiplicity: "The system can recognize multiple Staff members."

Primary Actor: None

Main Success Scenario:

"The system compares the captured image with the Staff member's profile."

Use Case Ends in: SUCCESS

Handler Use Cases:

HandleIdentityVerificationFailure:

Scope: SmartStoreSystem

Level: SUMMARY

Intention: "To handle Customer identity verification failure."

Multiplicity: "The system can handle identity verification failures for multiple customers."

Primary Actor: None

Contexts and Exceptions:

CustomerEntry {SOFTWARE_EXCEPTION::IdentityVerificationFailure}

CustomerExit {SOFTWARE_EXCEPTION::IdentityVerificationFailure}

Main Success Scenario:

"The system displays an error message to the Customer."

Use Case Ends in: FAILURE

HandleImageCaptureFailure:

Scope: SmartStoreSystem

Level: SUMMARY

Intention: "To handle Customer image capture failure."

Multiplicity: "The system can handle image capture failures for multiple customers."

Primary Actor: None

Contexts and Exceptions:

CustomerEntry {HARDWARE_EXCEPTION::CameraFailure}

CustomerExit {HARDWARE_EXCEPTION::CameraFailure}

Main Success Scenario:

"The system attempts to capture the image again."

"If the image cannot be captured, the system logs the error and continues."

Use Case Ends in: DEGRADED

HandleEntryGateFailure:

Scope: SmartStoreSystem

Level: SUMMARY

Intention: "To handle EntryGate failure."

Multiplicity: "The system can handle EntryGate failures for multiple gates."

Primary Actor: None

Contexts and Exceptions:

CustomerEntry {HARDWARE_EXCEPTION::EntryGateFailure}

Main Success Scenario:

"The system notifies the Customer and directs them to a different entry point."

Use Case Ends in: DEGRADED

HandleExitGateFailure:

Scope: SmartStoreSystem

Level: SUMMARY

Intention: "To handle ExitGate failure."

Multiplicity: "The system can handle ExitGate failures for multiple gates."

Primary Actor: None

Contexts and Exceptions:

CustomerExit {HARDWARE_EXCEPTION::ExitGateFailure}

Main Success Scenario:

"The system notifies the Customer and directs them to a different exit point."

Use Case Ends in: DEGRADED

HandlePaymentProcessingFailure:

Scope: SmartStoreSystem

Level: SUMMARY

Intention: "To handle PaymentService processing failure."

Multiplicity: "The system can handle payment processing failures for multiple payments."

Primary Actor: None

Contexts and Exceptions:

CustomerExit {SOFTWARE_EXCEPTION::PaymentServiceFailure}

PaymentProcessing {SOFTWARE_EXCEPTION::PaymentServiceFailure}

Main Success Scenario:

"The system attempts to process the payment again."

"If the payment cannot be processed, the system notifies the Customer and allows them to exit the store."

Use Case Ends in: DEGRADED

HandlePaymentServiceFailure:

Scope: SmartStoreSystem

Level: SUMMARY

Intention: "To handle PaymentService failure."

Multiplicity: "The system can handle PaymentService failures for multiple payment services."

Primary Actor: None

Contexts and Exceptions:

CustomerExit {SOFTWARE_EXCEPTION::PaymentServiceFailure}

PaymentProcessing {SOFTWARE_EXCEPTION::PaymentServiceFailure}

Main Success Scenario:

"The system logs the error and notifies the Customer."

Use Case Ends in: DEGRADED

HandlePressureSensorFailure:

Scope: SmartStoreSystem

Level: SUMMARY

Intention: "To handle PressureSensor failure."

Multiplicity: "The system can handle PressureSensor failures for multiple sensors."

Primary Actor: None

Contexts and Exceptions:

ItemIdentification {HARDWARE_EXCEPTION::SensorFailure}

Main Success Scenario:

"The system logs the error and continues."

Use Case Ends in: DEGRADED

HandleWeightSensorFailure:

Scope: SmartStoreSystem

Level: SUMMARY

Intention: "To handle WeightSensor failure."

Multiplicity: "The system can handle WeightSensor failures for multiple sensors."

Primary Actor: None

Contexts and Exceptions:

ItemIdentification {HARDWARE_EXCEPTION::SensorFailure}

Main Success Scenario:

"The system logs the error and continues."

Use Case Ends in: DEGRADED

HandleTagReaderFailure:

Scope: SmartStoreSystem

Level: SUMMARY

Intention: "To handle TagReader failure."

Multiplicity: "The system can handle TagReader failures for multiple readers."

Primary Actor: None

Contexts and Exceptions:

ItemIdentification {HARDWARE_EXCEPTION::SensorFailure}

Main Success Scenario:

"The system logs the error and continues."

Use Case Ends in: DEGRADED

HandleCustomerRecognitionFailure:

Scope: SmartStoreSystem

Level: SUMMARY

Intention: "To handle Customer recognition failure."

Multiplicity: "The system can handle recognition failures for multiple customers."

Primary Actor: None

Contexts and Exceptions:

CustomerRecognition {SOFTWARE_EXCEPTION::CustomerRecognitionFailure}

Main Success Scenario:

"The system attempts to recognize the Customer again."

"If the Customer cannot be recognized, the system logs the error and continues."

Use Case Ends in: DEGRADED

HandleCameraFailure:

Scope: SmartStoreSystem

Level: SUMMARY

Intention: "To handle Camera failure."

Multiplicity: "The system can handle Camera failures for multiple cameras."

Primary Actor: None

Contexts and Exceptions:

CustomerEntry {HARDWARE_EXCEPTION::CameraFailure}

CustomerExit {HARDWARE_EXCEPTION::CameraFailure}

CustomerRecognition {HARDWARE_EXCEPTION::CameraFailure}

Main Success Scenario:

"The system logs the error and continues."

Use Case Ends in: DEGRADED

HandleStaffRecognitionFailure:

Scope: SmartStoreSystem

Level: SUMMARY

Intention: "To handle Staff recognition failure."

Multiplicity: "The system can handle recognition failures for multiple staff members."

Primary Actor: None

Contexts and Exceptions:

StaffManagement {SOFTWARE_EXCEPTION::CustomerRecognitionFailure}

Main Success Scenario:

"The system attempts to recognize the Staff member again."

"If the Staff member cannot be recognized, the system logs the error and continues."

Use Case Ends in: DEGRADED

HandleVirtualCartUpdateFailure:

Scope: SmartStoreSystem

Level: SUMMARY

Intention: "To handle virtual cart update failure."

Multiplicity: "The system can handle virtual cart update failures for multiple carts."

Primary Actor: None

Contexts and Exceptions:

VirtualCartManagement {SOFTWARE_EXCEPTION::VirtualCartUpdateFailure}

Main Success Scenario:

"The system logs the error and continues."

Use Case Ends in: DEGRADED

HandleItemIdentificationFailure:

Scope: SmartStoreSystem

Level: SUMMARY

Intention: "To handle item identification failure."

Multiplicity: "The system can handle item identification failures for multiple items."

Primary Actor: None

Contexts and Exceptions:

ItemIdentification {SOFTWARE_EXCEPTION::ItemIdentificationFailure}

Main Success Scenario:

"The system logs the error and continues."

Use Case Ends in: DEGRADED

HandleSensorFailure:

Scope: SmartStoreSystem

Level: SUMMARY

Intention: "To handle sensor failure."

Multiplicity: "The system can handle sensor failures for multiple sensors."

Primary Actor: None

Contexts and Exceptions:

ItemIdentification {HARDWARE_EXCEPTION::SensorFailure}

StaffManagement {HARDWARE_EXCEPTION::SensorFailure}

Main Success Scenario:

"The system attempts to identify the faulty sensor."

"The system notifies the staff about the sensor failure."

Use Case Ends in: SUCCESS

HandleSystemManagementInterfaceFailure:

Scope: SmartStoreSystem

Level: SUMMARY

Intention: "To handle SystemManagementInterface failure."

Multiplicity: "The system can handle SystemManagementInterface failures for multiple interfaces."

Primary Actor: None

Contexts and Exceptions:

SystemMonitoringAndMaintenance {SOFTWARE_EXCEPTION::SystemManagementInterfaceFailure}

Main Success Scenario:

"The system logs the error and notifies the Staff member."

Use Case Ends in: DEGRADED

HandleSystemProcessingFailure:

Scope: SmartStoreSystem

Level: SUMMARY

Intention: "To handle system processing failure."

Multiplicity: "The system can handle system processing failures for multiple processes."

Primary Actor: None

Contexts and Exceptions:

CustomerEntry {SOFTWARE_EXCEPTION::SystemProcessingFailure}

CustomerExit {SOFTWARE_EXCEPTION::SystemProcessingFailure}

StaffManagement {SOFTWARE_EXCEPTION::SystemProcessingFailure}

Main Success Scenario:

"The system logs the error and notifies the relevant actor."

Use Case Ends in: DEGRADED