MAY 2, 2023

Use Cases and Diagrams

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Assignment 2 Use Cases and Diagram

PART 1：USE CASE

Name: Automated Order and Payment Processing

Actors Involved: Customer, Designer, Accounting Clerk

Description: This use case is performed to automate the process of entering customer orders into the system and processing payments received from customers. The goal of this use case is to improve the efficiency of the billing process and reduce the expenses associated with manual invoicing and late notice mailing.

Pre-Conditions:

The customer has placed an order with the design shop

The designer has completed the order and has recorded the details on a hand-written form

The accounting software is installed and functional

The customer has made a payment for the order

Post-Conditions:

The customer order details have been accurately entered into the accounting software

The customer payment has been processed and recorded in the accounting software

An invoice has been generated and sent to the customer

The customer payment has been posted and reflected in the accounting records

Assumptions:

The customer has provided accurate and complete information for the order

The designer has accurately recorded the order details

The accounting software is able to process orders and payments in a timely manner

The customer has made a payment for the order

Non-functional Requirements:

The system should be able to process orders and payments in real-time

The system should be able to handle a high volume of orders and payments efficiently

The system should provide a user-friendly interface for the designers and accounting clerks to enter and process orders and payments.

PART2: Workflow

PART 2: WORK FLOW DIAGRAM

Step 1: Start

Start the process by creating a new flowchart.

Step 2: Customer places order

The customer places an order with the design shop, and the designer records the order details on a hand-written form.

Step 3: Designer inputs order details

The designer inputs the order details into the accounting software.

Step 4: Accounting clerk verifies order details

The accounting clerk verifies the order details entered by the designer to ensure accuracy.

Step 5: Customer makes payment

The customer makes a payment for the order.

Step 6: Accounting clerk enters payment

The accounting clerk enters the payment into the accounting software.

Step 7: Invoice generated

The accounting software generates an invoice for the customer.

Step 8: Invoice sent to customer

The invoice is sent to the customer.

Step 9: Payment posted

The customer payment is posted and reflected in the accounting records.

Step 10: End

The process ends with the successful completion of the automated order and payment processing.

Note: The above steps can be represented in a flowchart using the symbols for start and end, process, decision, and input/output. The arrows can be used to show the flow of the process, and the swim lanes can be used to show the different actors involved in the process (customer, designer, and accounting clerk).