Payment

States

- Initial State: The customer begins the payment process for the selection seat process
- Final State:
    1. The customer receives a confirmation receipt for purchasing the seat.
    2. The purchased seat is taken away from the seat inventory for the flight scheduled.
    3. The customer receipt is denied, and they receive a message that displays error.
    4. The customer rejects the seat details.
    5. The customer's card is denied and a message displays error.

Actions

The payment process begins when the customer confirms their ID. The system allows or denies the ID provided. The customer will confirm the details of the selected seat. The customer will attempt to enter payment information, and the system will approve or deny the card. The system will then assign the customer ID to the seat and the seat is removed from inventory for the scheduled flight. The customer receives ID of the purchased seat.
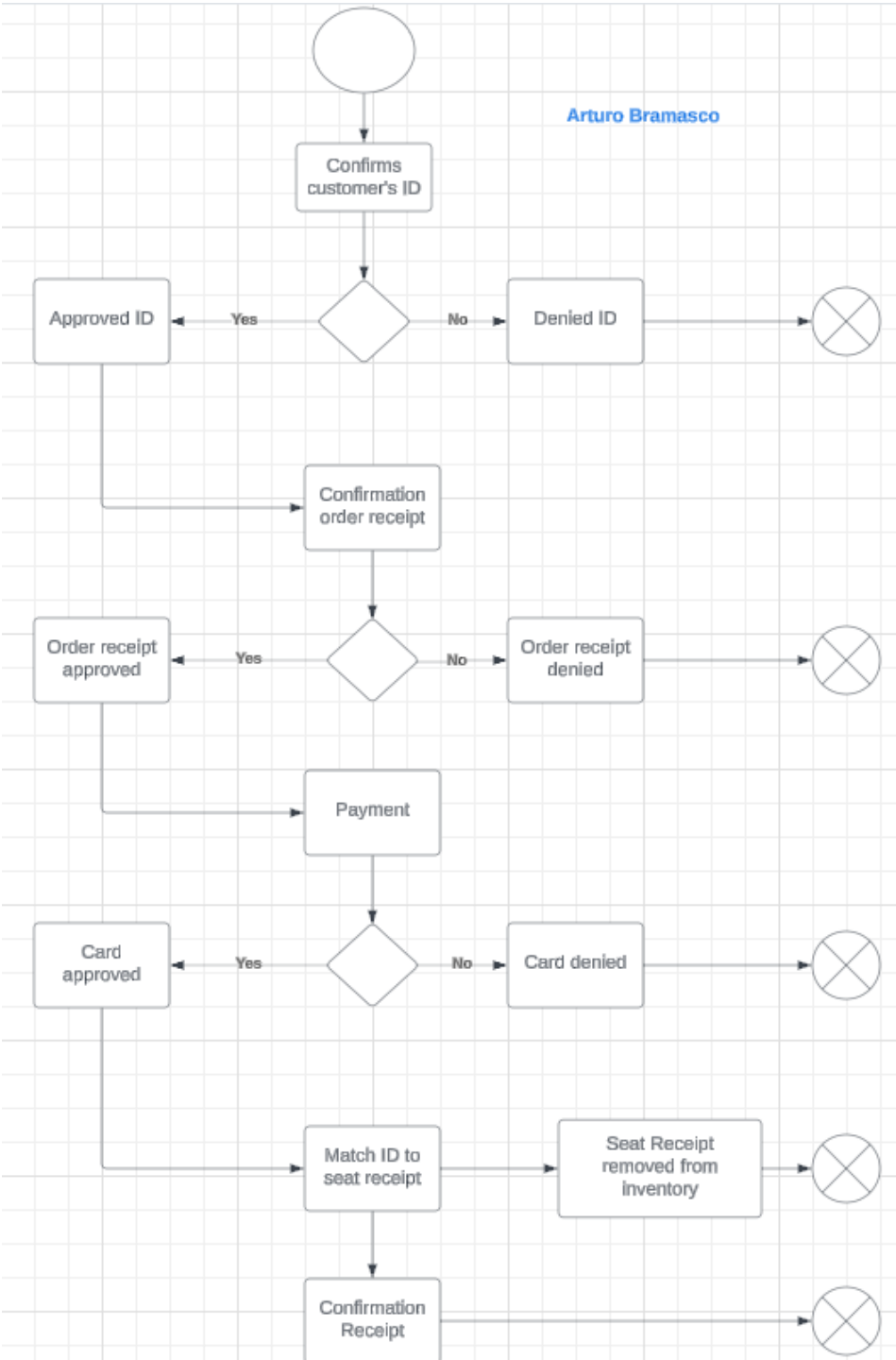
Select Seat

States

- Initial State: The customer selects a seat on a flight
- Final State:
    1. Customer will confirm the selected seat and proceed to purchase.
    2. Customer will not confirm the selected seat and exit the system.

Actions

Custome selects a seat for a flight and view the seats available whether that is a window, aisle, economy, first class seat. The system tells the customer about the seat that is available and the total cost. The system will bring up the total cost for the seat and the customer will be able to confirm the selected seat. The customer will then be able to checkout.

Airline Ticket System

Arturo Bramasco

Confirms customer's ID

Approved ID ◄ — Yes — ◇ — No ► Denied ID — ► ⊗

Confirmation order receipt

Order receipt approved ◄ — Yes — ◇ — No ► Order receipt denied — ► ⊗

Payment

Card approved ◄ — Yes — ◇ — No ► Card denied — ► ⊗

Match ID to seat receipt — ► Seat Receipt removed from inventory — ► ⊗

Confirmation Receipt — ► ⊗

Airline Ticket System

(A)

Customer confirms for seat purchase

Customer selects seat

Customer selects type of seat

| window | aisle | economy | first class |

Customer selects seat

total price for purchasing seat

window ◄ **Yes** ◇ **No**

Customer confirms seat payment

⊗

Sequence Diagrams

Process Credit Card

Actor: Customer

Objects: Payment, Credit Card

1. Customer enters credit card information.
2. Payment receives card information and send message to card for verification.
3. If the card is verified, the customer receives pay confirmation ID for seat.
4. If the card is denied, the customer receives an error.
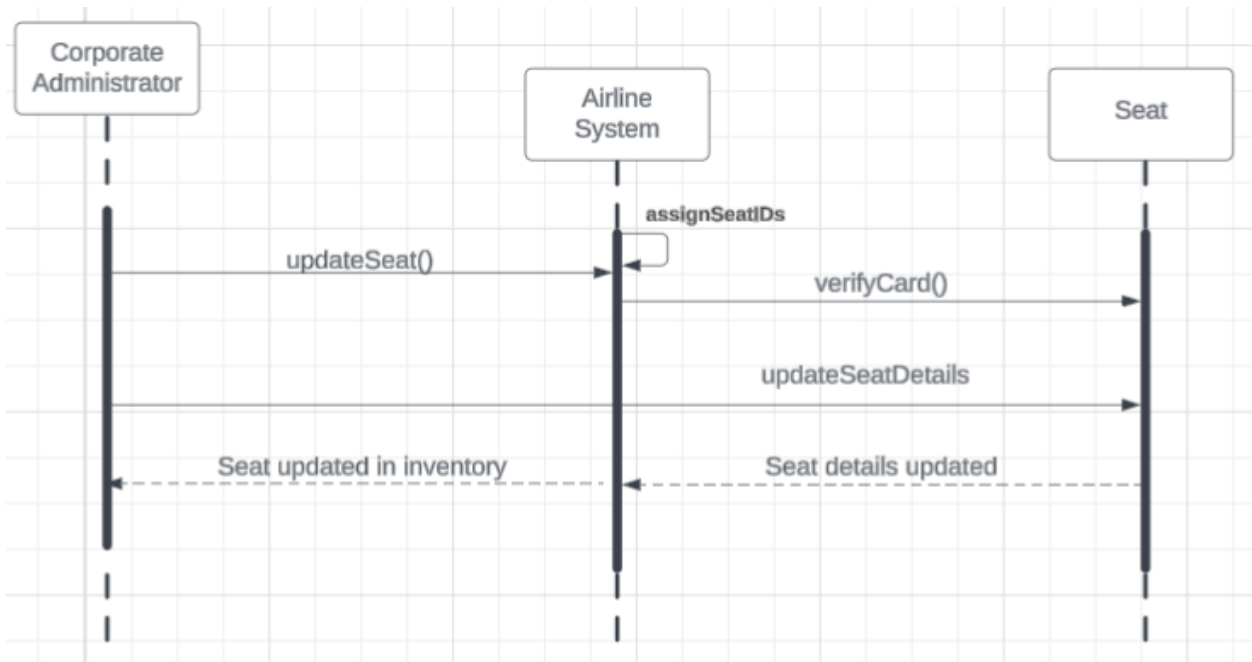
Update the Seat Inventory

Actor: Airline Administrator

Objects: Airline System, Seat Inventory

1. Airline Administrator requests update on the seat inventory.
2. The system assigns seat IDs.
3. The Airline Administrator updates the seat details.
4. A message is sent to the system and administrator that the inventory is updated.
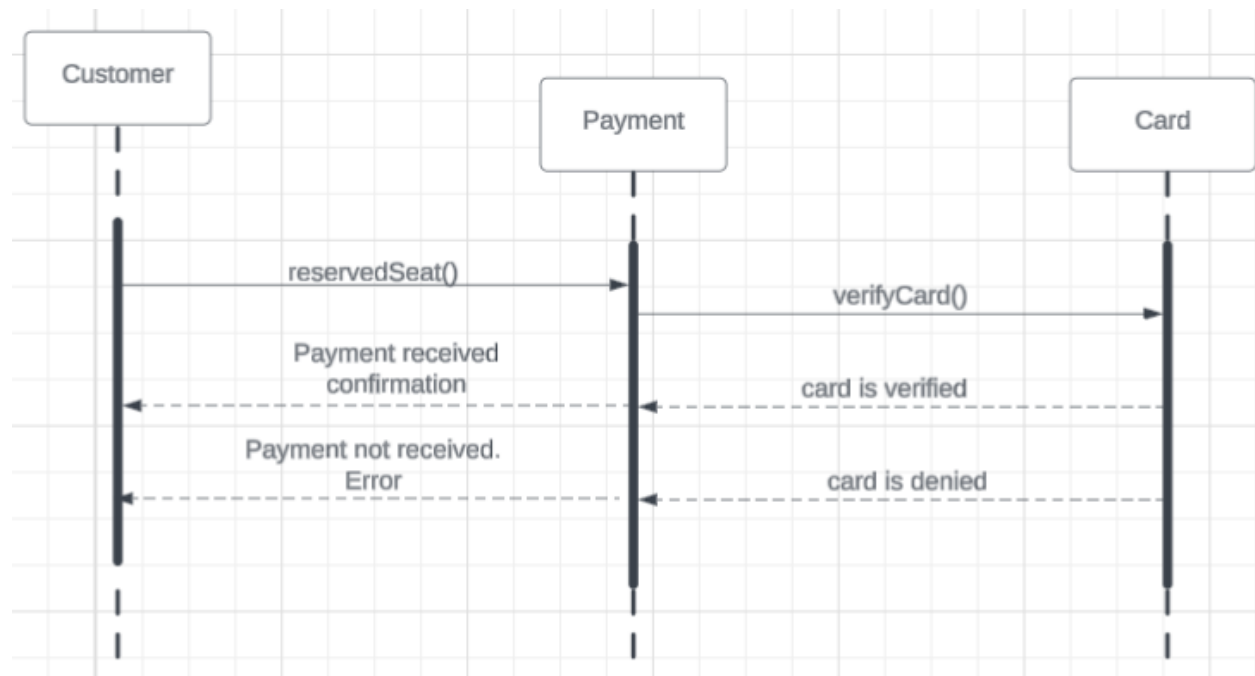
Airline Ticket System

Airline Ticket System

Activity Diagram