

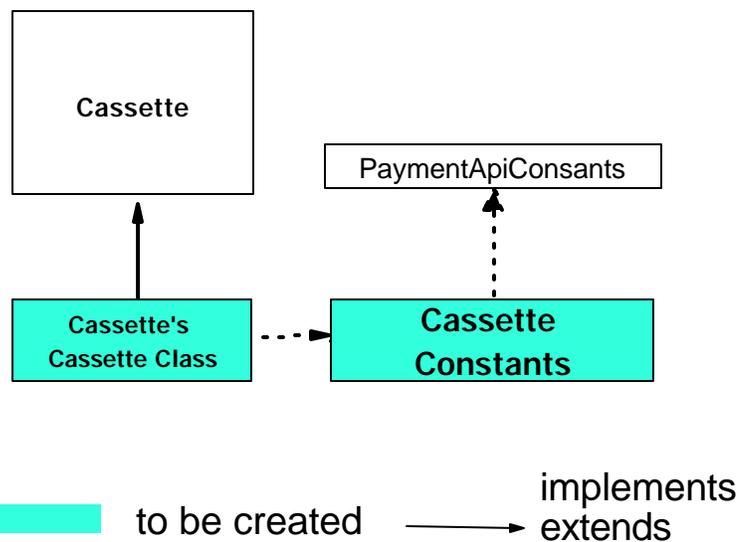
# IBM Payment Manager Cassette Development Workshop

## IBM Payment Manager 2.1 Cassette Object Model



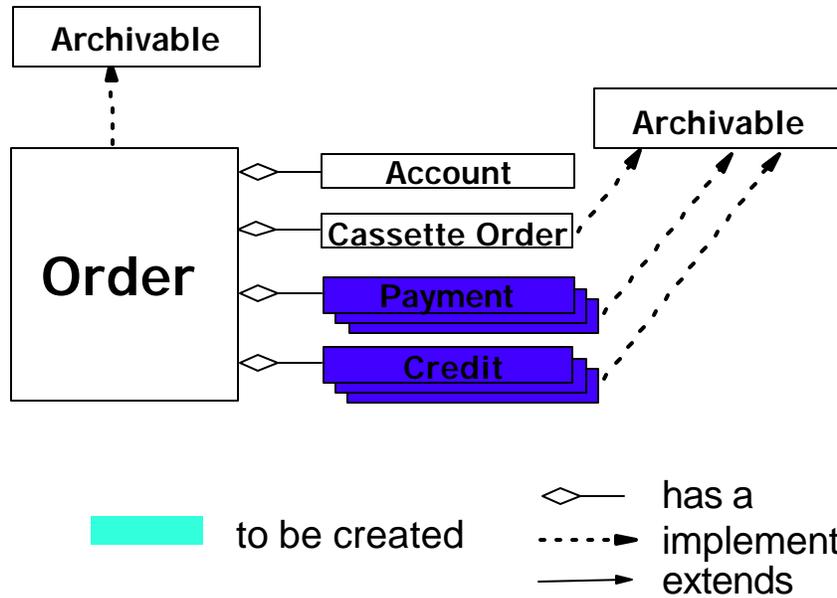
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## Cassette object

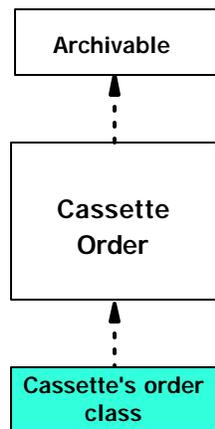




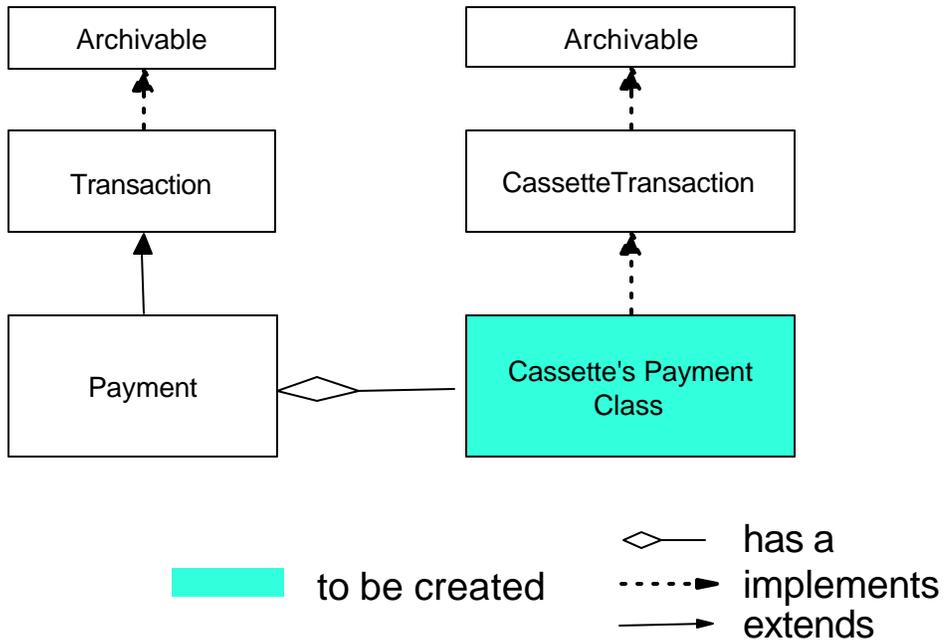
# Object Model - Order



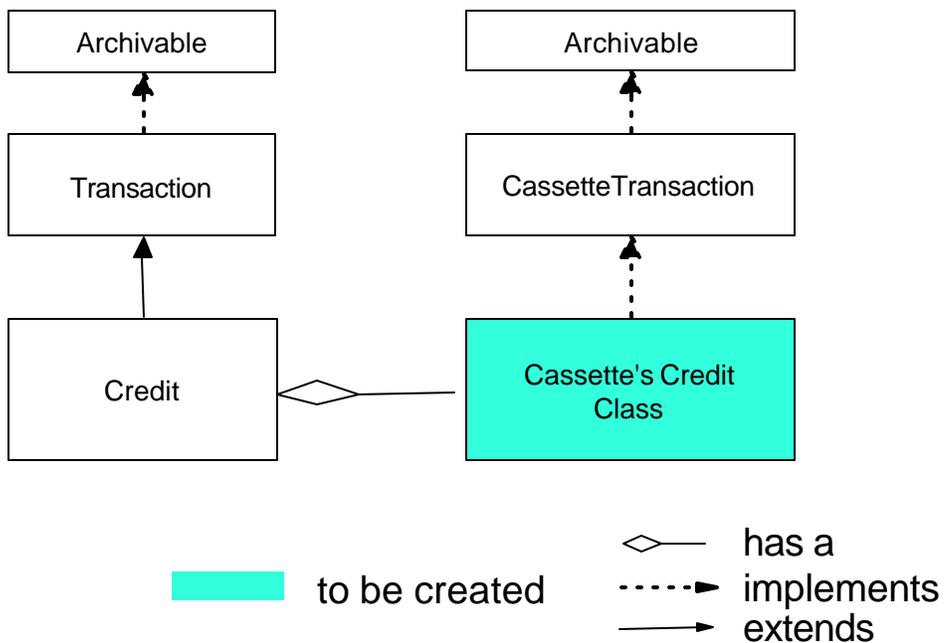
# Object Model - Cassette Order



# Object Model - Payments



# Object Model - Credits



## **Cassette's Constants Interface**

- Contains constants with global scope
  - ▶ Database table and view names
  - ▶ Table and view column names
  - ▶ XML identifiers
  - ▶ Protocol data keywords
  - ▶ Secondary return codes
  - ▶ Message numbers
- Extends framework PaymentApiConstants as a convenience

## **Cassette Object**

- Acts as a hub between the framework and other cassette objects
  - ▶ Singleton
  - ▶ Factory
  - ▶ Proxy
- Responsible for
  - ▶ Reading and verifying configuration
  - ▶ Creating and resurrecting cassette objects
  - ▶ Creating ComPoints
  - ▶ Servicing API and Protocol Requests

## **CassetteQuery Object**

- Acts as a hub between framework and cassette dependent persistent data
  - ▶ Strategy
- Responsible for
  - ▶ Servicing query requests that include cassette resources
  - ▶ Constructing and executing SQL statements that obtain cassette dependent data
  - ▶ Adding cassette dependent data to XML reply document.

## **Cassette's Account Object**

- Represents the merchants account in the financial network
  - ▶ Proxy
- Resurrects and archives itself
- Exchanges data with financial network to perform functions requested by cassette Payments, Credits, and Batches
- Selects and retrieves open batch objects to contain payment or credit

## **Cassette's Batch Object**

- Represents the financial network's collection of payment and credits
- Resurrects and archives itself
- Services Batch Requests
  - ▶ BatchOpen
  - ▶ BatchClose
  - ▶ BatchPurge
  - ▶ DeleteBatch
- Manages cassette dependent persistent batch data

## **Cassette's Order Object**

- Represents cassette dependent data collected when the order was created
- Resurrects and archives itself
- Assigns the order to an Account
- Manages framework order state
- Performs order requests
  - ▶ ReceivePayment
  - ▶ AcceptPayment
  - ▶ CloseOrder
  - ▶ CancelOrder

## **Cassette's Payment Object**

- Represents a payment in the financial network
- Resurrects and archives itself
- Manages the state of framework payment
- Performs payment requests
  - ▶ Approve
  - ▶ ApproveReversal
  - ▶ Deposit
  - ▶ DepositReversal
- When batch closes, performs ClosePayment

## **Cassette's Credit Object**

- Represents a credit in the financial network
- Resurrects and archives itself
- Manages the state of framework credit
- Performs credit requests
  - ▶ Refund
  - ▶ RefundReversal
- When batch closes, performs CloseCredit