UML diagrams for ATM application
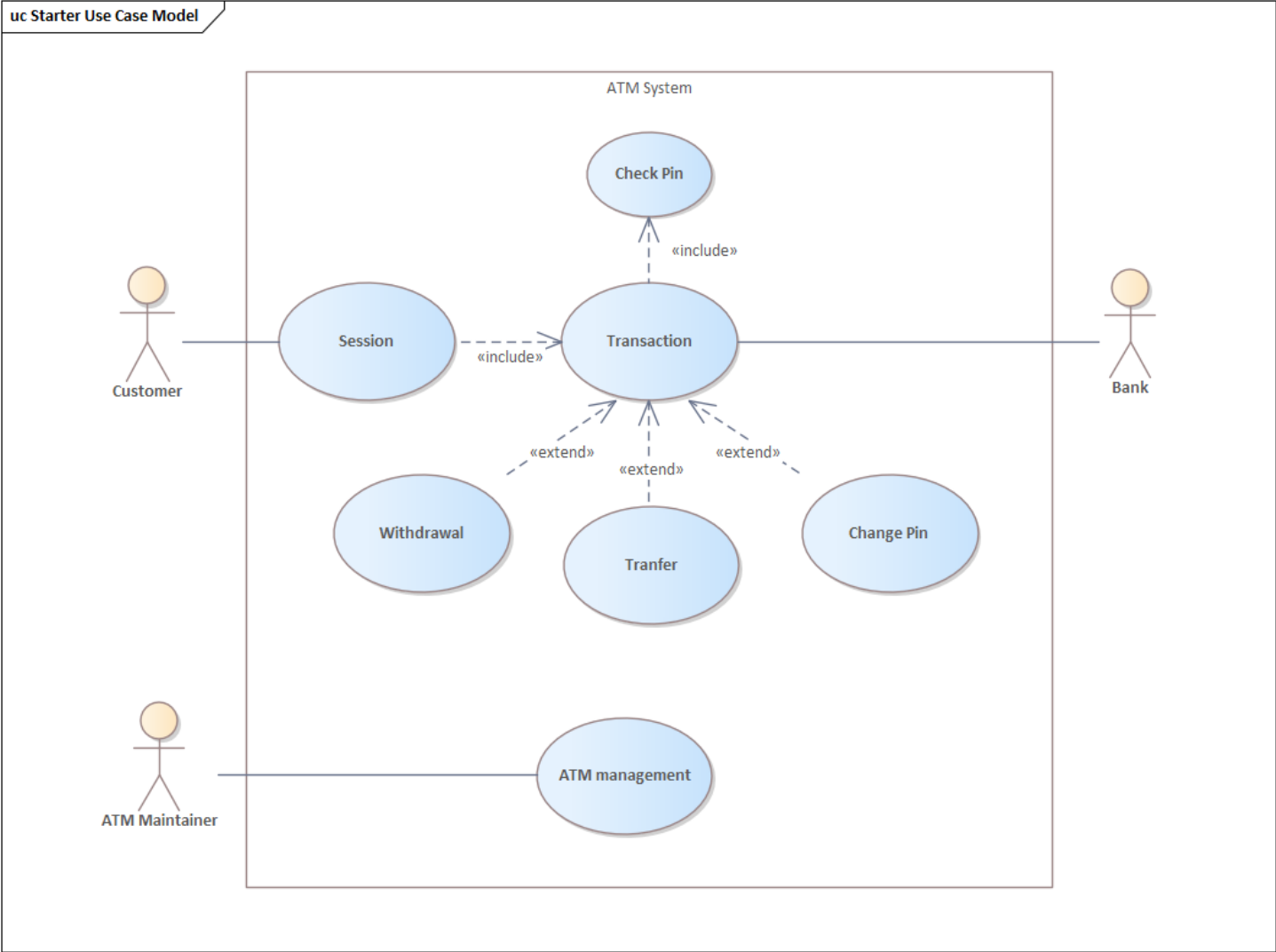

uc Starter Use Case Model

ATM System

Check Pin

«include»

Customer

Session — «include» → Transaction — Bank

«extend» «extend» «extend»

Withdrawal

Tranfer

Change Pin

ATM Maintainer

ATM management

class Starter Use Case Model

Customer
- address: char
- dob: date
- id: int {id}
- name: char

1..* ——— 1

Bank
- id: int {id}
- info: char
- name: char

1..*
1..*

1

Account
- account-number: int
- balance: int
- customer's-code: int {id}
- incorrect-password: int
- ower: int
- password: int
- status: int

1..*

ATM
- id: int {id}
- info: char

1 ——— * **Transaction** * ——— 1

Transaction
- id: int {id}
- time: date time
- type: int

Withdrawal
- amount: int
- + withdrawal(int): boolean

Tranfer
- account-number: int
- amount: int
- + tranfer(int, int): boolean

ChangePin
- new-pin: int
- + pinChange(int): boolean

act Activity

Process

Customer	ATM	Bank

account verified

Enter money number

> minimum cash, < maximum cash, check money in the ATM

yes

no

Bad notification

check balance, < maximum withdrawal per day

no

Bad notification

yes

Update balance

Release money

Success notification

Take money

section continue

sd Interaction

C : Customer | A : ATM | Acc : Account

account verified

enter money number() → (C to A)

check money number(amount) (A self)

process transaction (amount, account) → (A to Acc)

check balance, < maximum withdrawal per day() (Acc self)

transaction success() (Acc to A)

Release money() (A to C)

Success notification() (A to C)

section continue