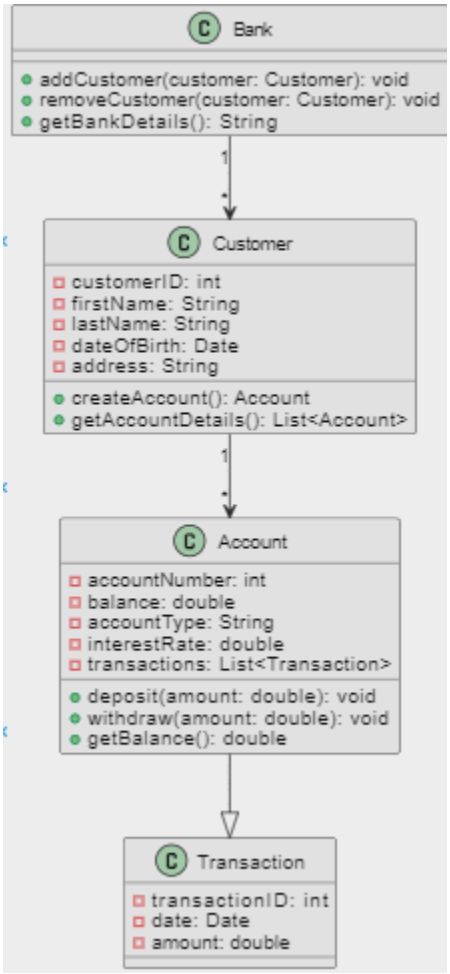
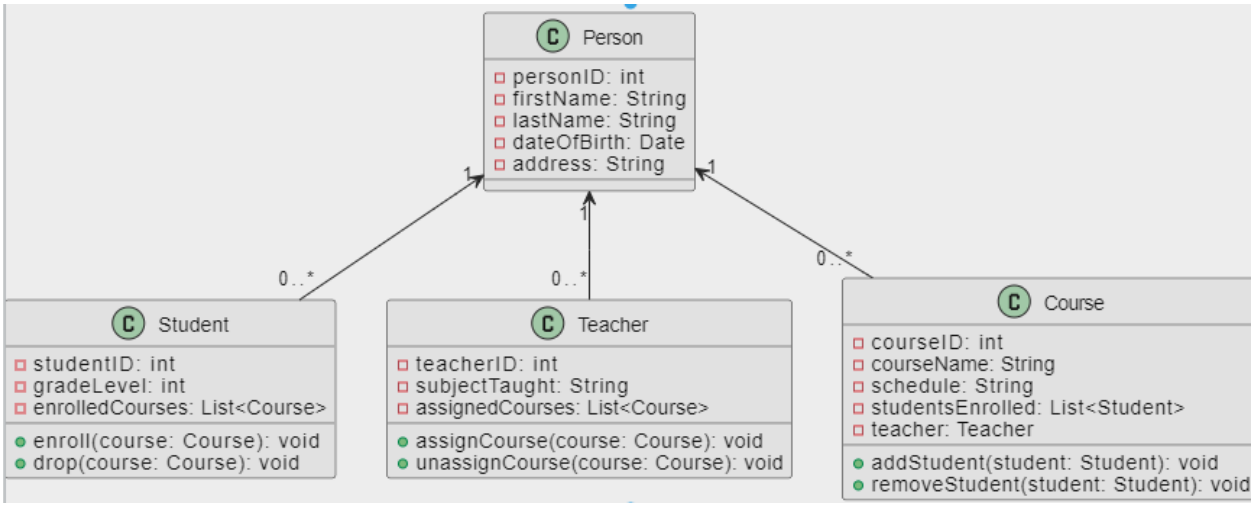
Abstraction

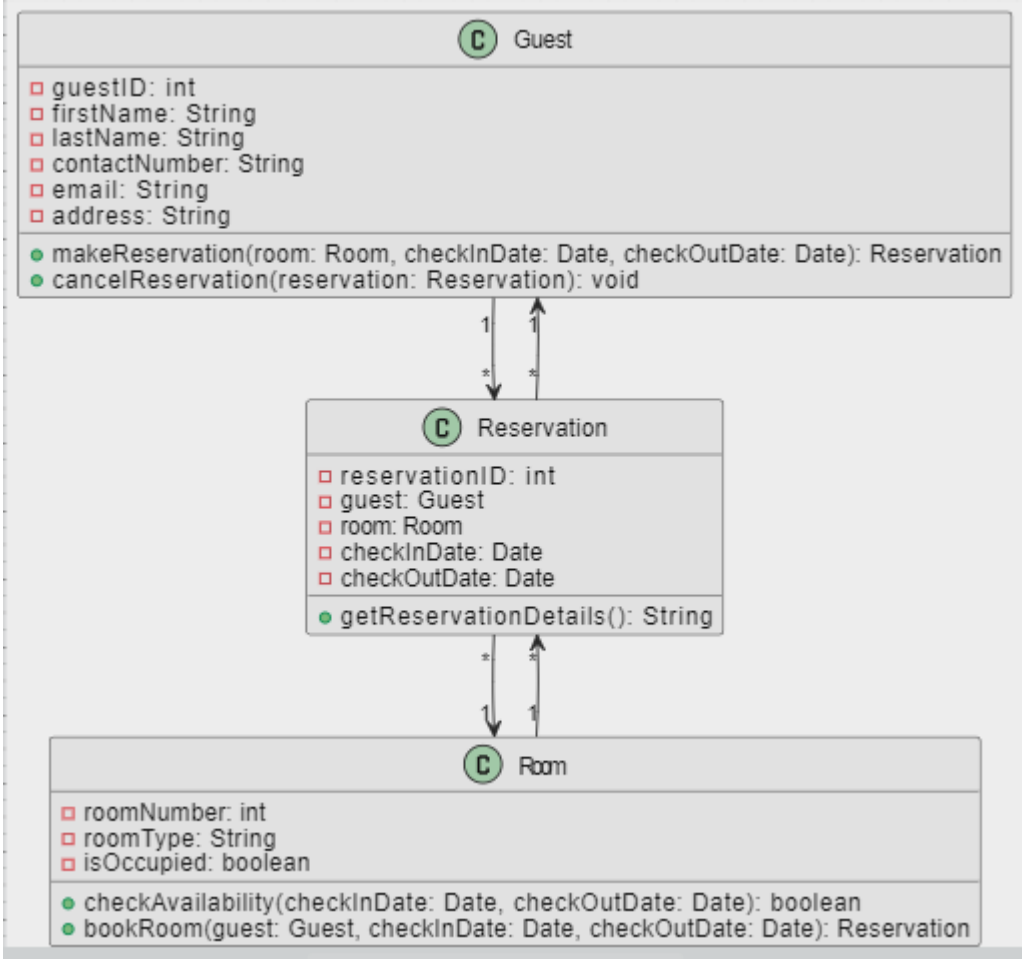
1. Design a class diagram for a banking system, including classes like Account, Customer, and Bank.



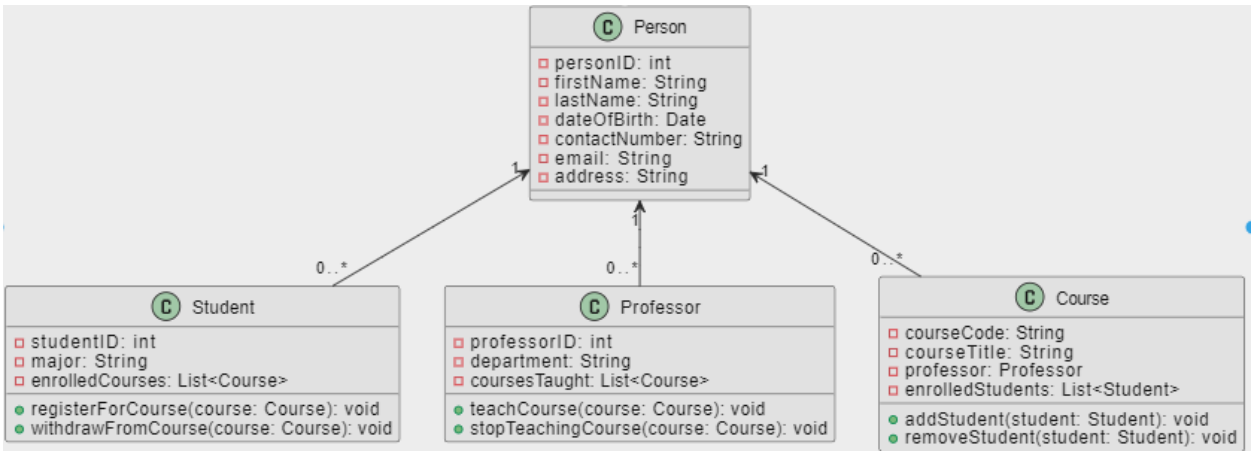
2. Create a class diagram for a school management system, including classes such as Student, Teacher, and Course.



3. Design a class diagram for a hotel reservation system, including classes like Reservation, Room, and Guest.

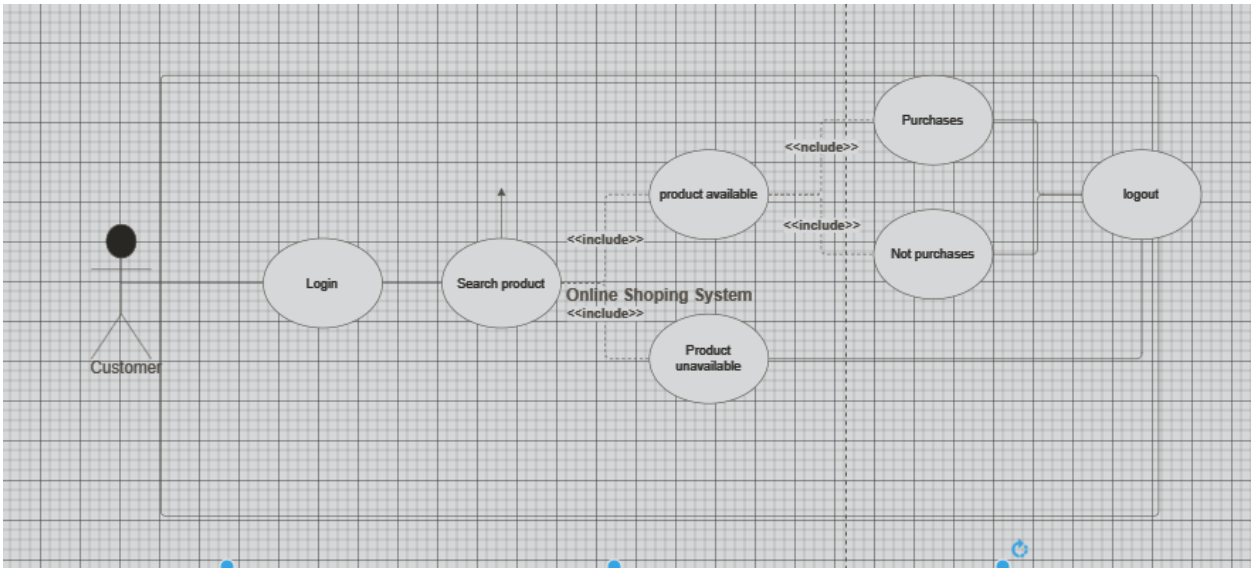


4. Design a class diagram for a university registration system, including classes like Student, Course, and Professor.

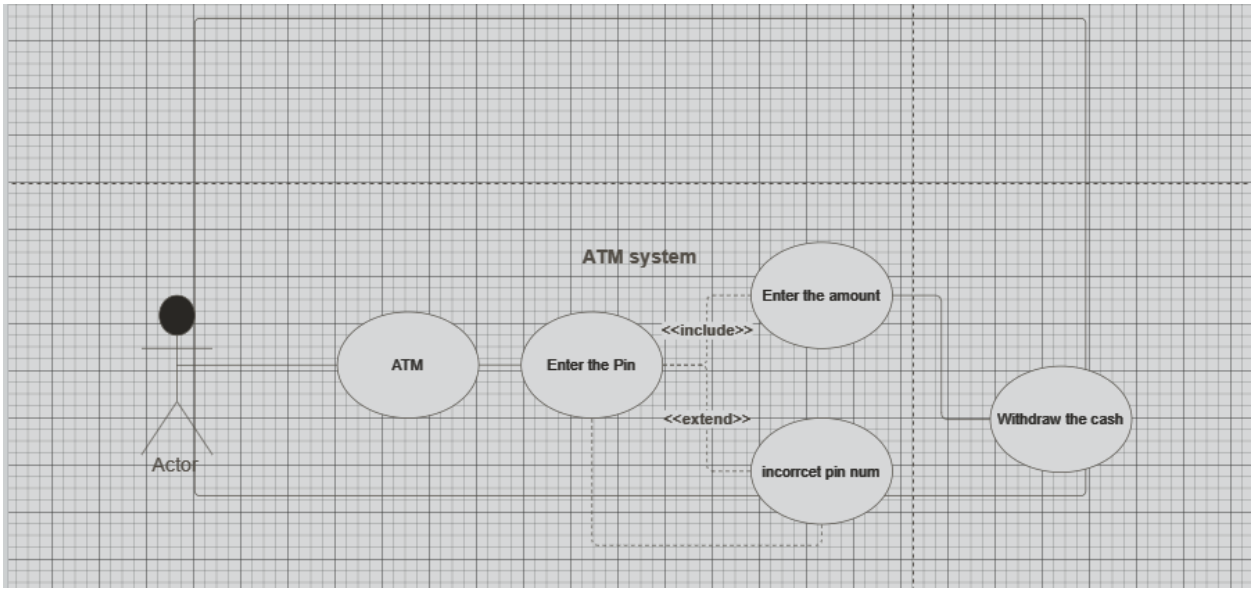


Use case diagram

5. Create a simple use case diagram for an online shopping system, including actors like Customer and use cases like Browse Products.

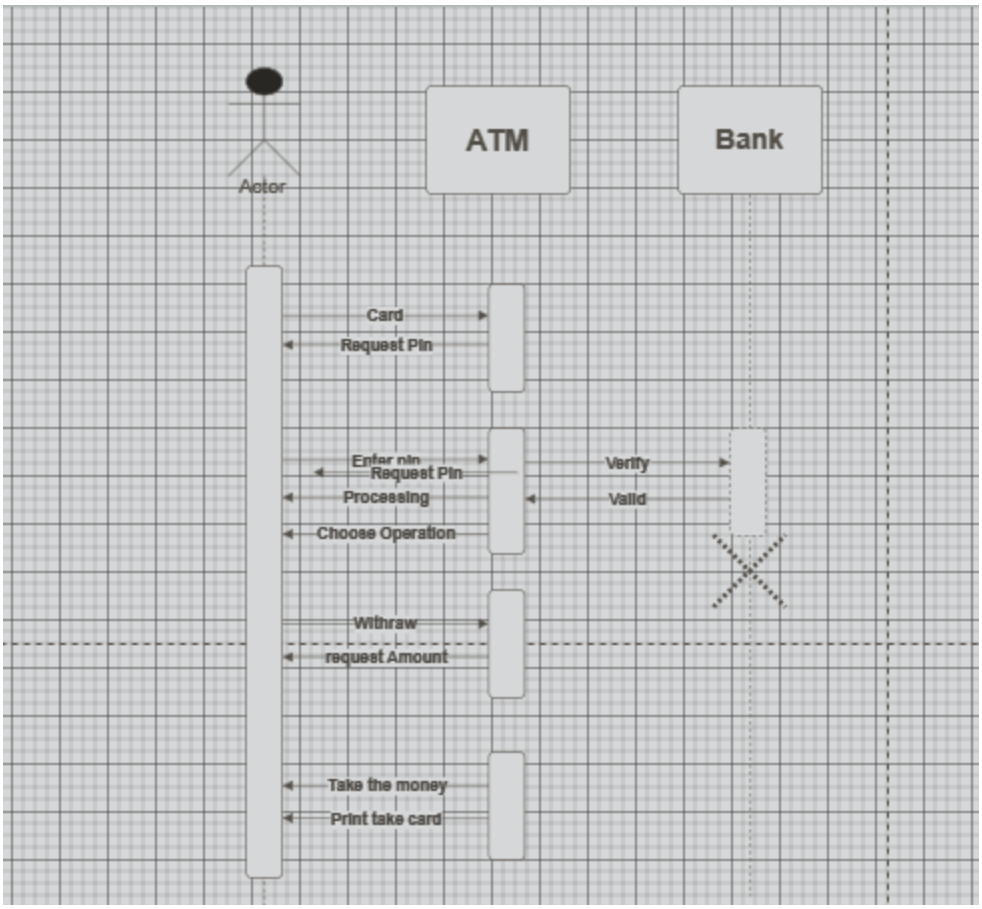


6. Design a use case diagram for an ATM system, including actors like Customer and use cases such as Withdraw Cash.

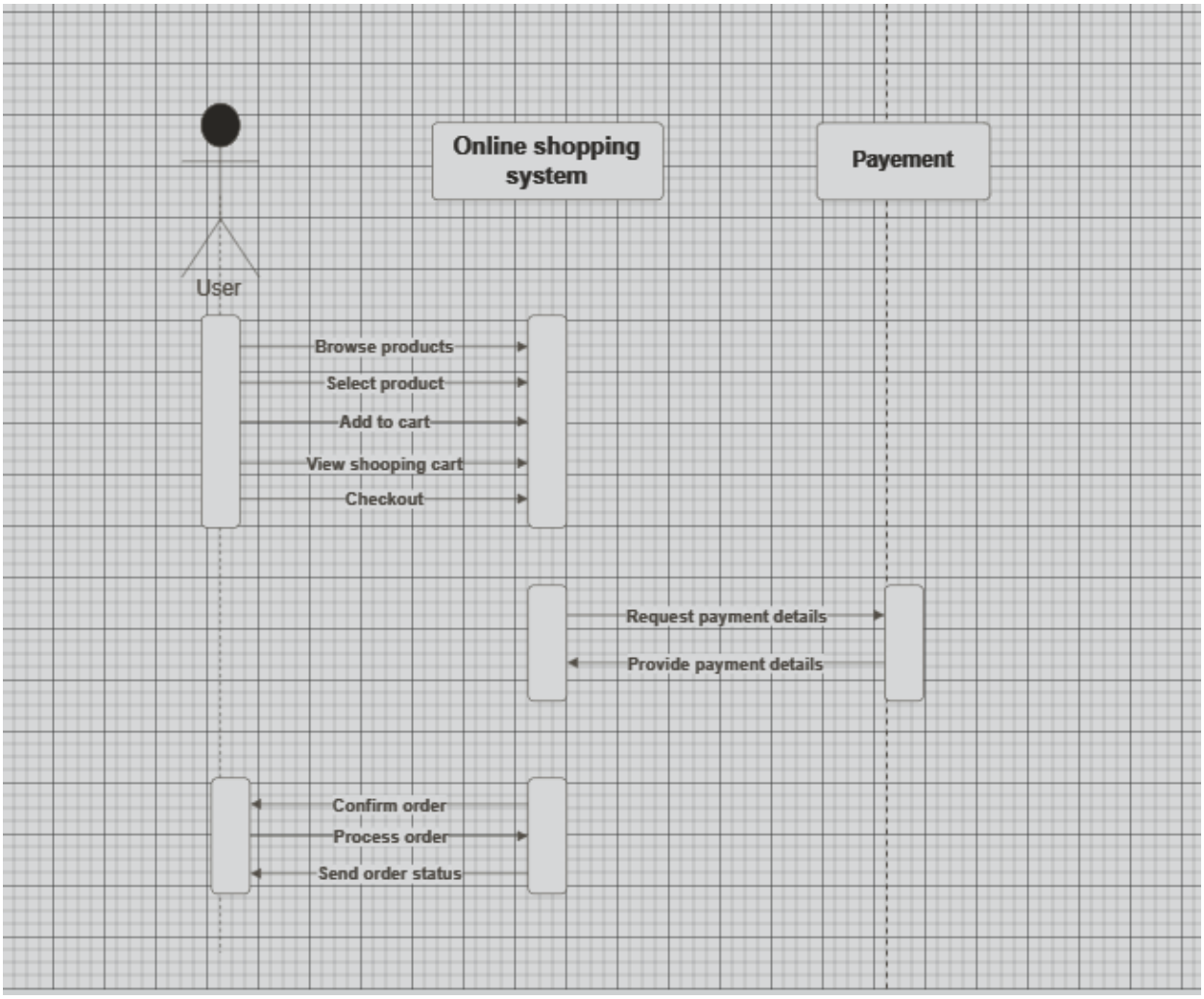


Sequence diagram

7. Create a sequence diagram for a simple scenario where a customer places an order online.



8. Design a sequence diagram for a scenario where a customer withdraws cash from an ATM, including actors like Customer and objects like ATM.


Online shopping system
Payement
User
Browse products
Select product
Add to cart
View shooping cart
Checkout
Request payment details
Provide payment details
Confirm order
Process order
Send order status