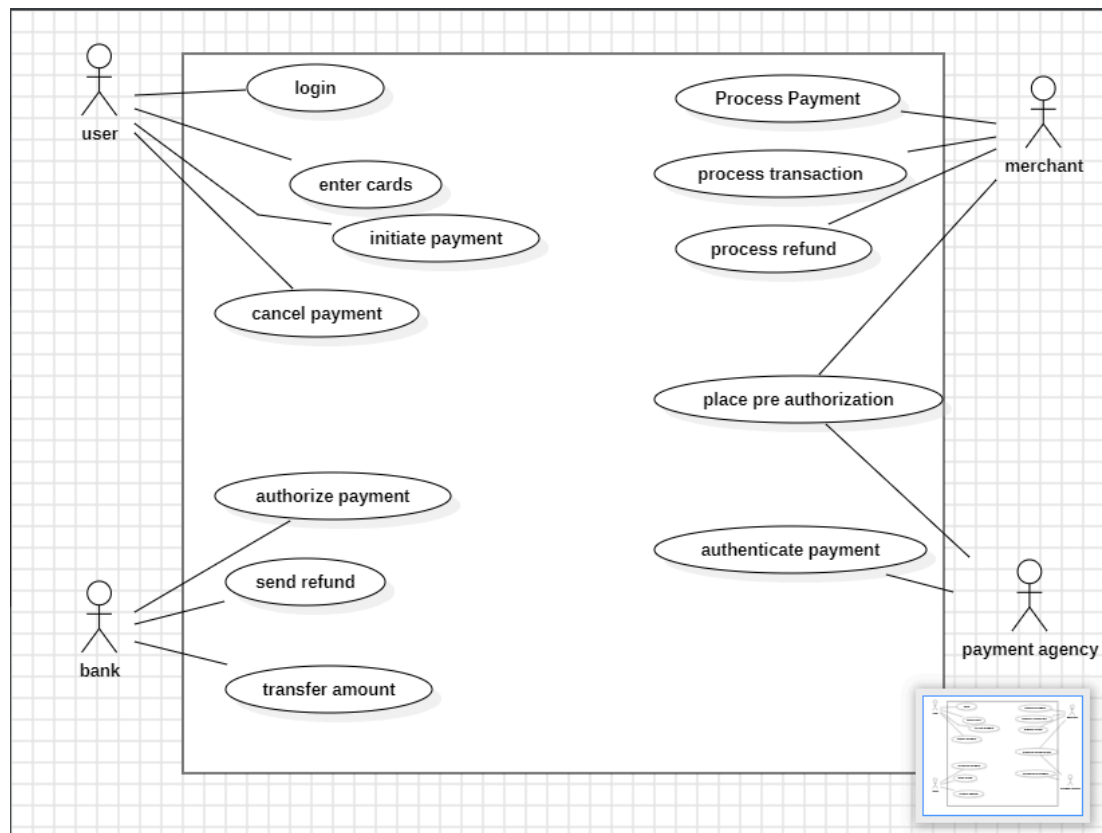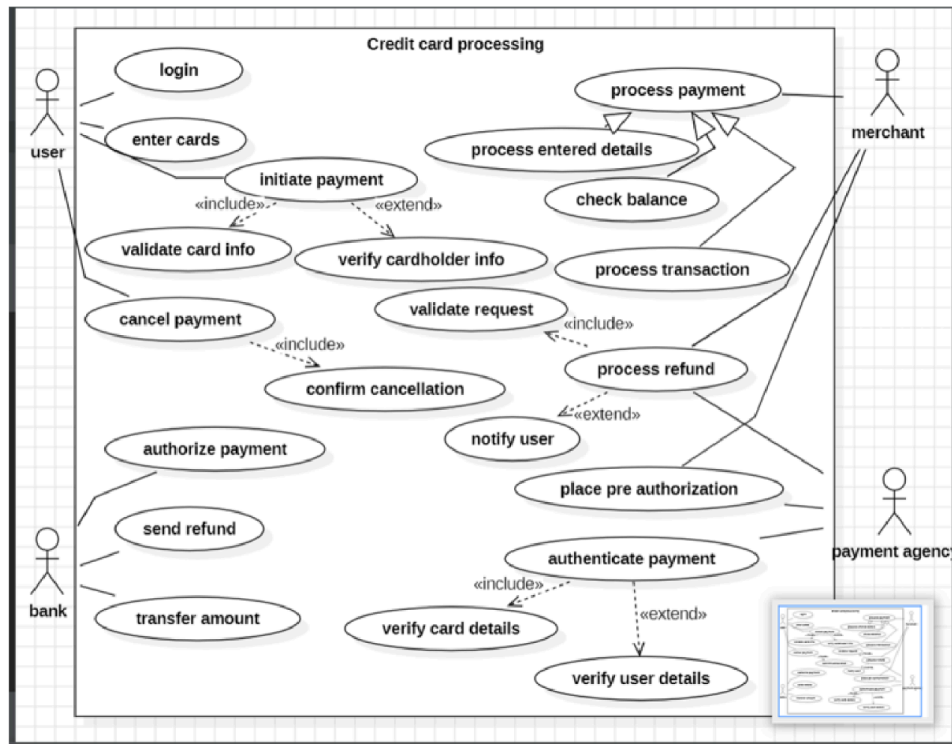## 2.5. Use Case Diagram:BOTH SIMPLE AND ADVANCED

SIMPLE

ADVANCED

Credit card processing

- login
- enter cards
- initiate payment
- process payment
- process entered details
- check balance
- «include»
- «extend»
- validate card info
- verify cardholder info
- process transaction
- cancel payment
- validate request
- «include»
- «include»
- process refund
- confirm cancellation
- «extend»
- authorize payment
- notify user
- place pre authorization
- send refund
- authenticate payment
- «include»
- transfer amount
- verify card details
- «extend»
- verify user details

Actors: user, merchant, bank, payment agency

Credit card

link — to

Enter — to

login

enter cards

cancel payment

validate card info

«includes»

verify cardholder info

validate payment

«includes»

confirm cancellation

send refund

authorize payment

transfer amount

notify user

validate request «includes»

process entered details

check balance

process refund

process transaction

process payment

«extends»

plan pre authorization

process pre authorization

verify card details

«includes»

notify user details

authenticate payment

«includes»

merchant

payment gateway