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system as black box

the name could be "NextGenPOS" but "System" keeps it simple

the ":" and underline imply an instance, and are explained in a later chapter on sequence diagram notation in UML

external Actor to system

Cashier

:System

makeNewSale

loop

enterItem(itemID, quantity)

description, total

a UML loop interaction frame, with a boolean guard expression

endSale

total with taxes
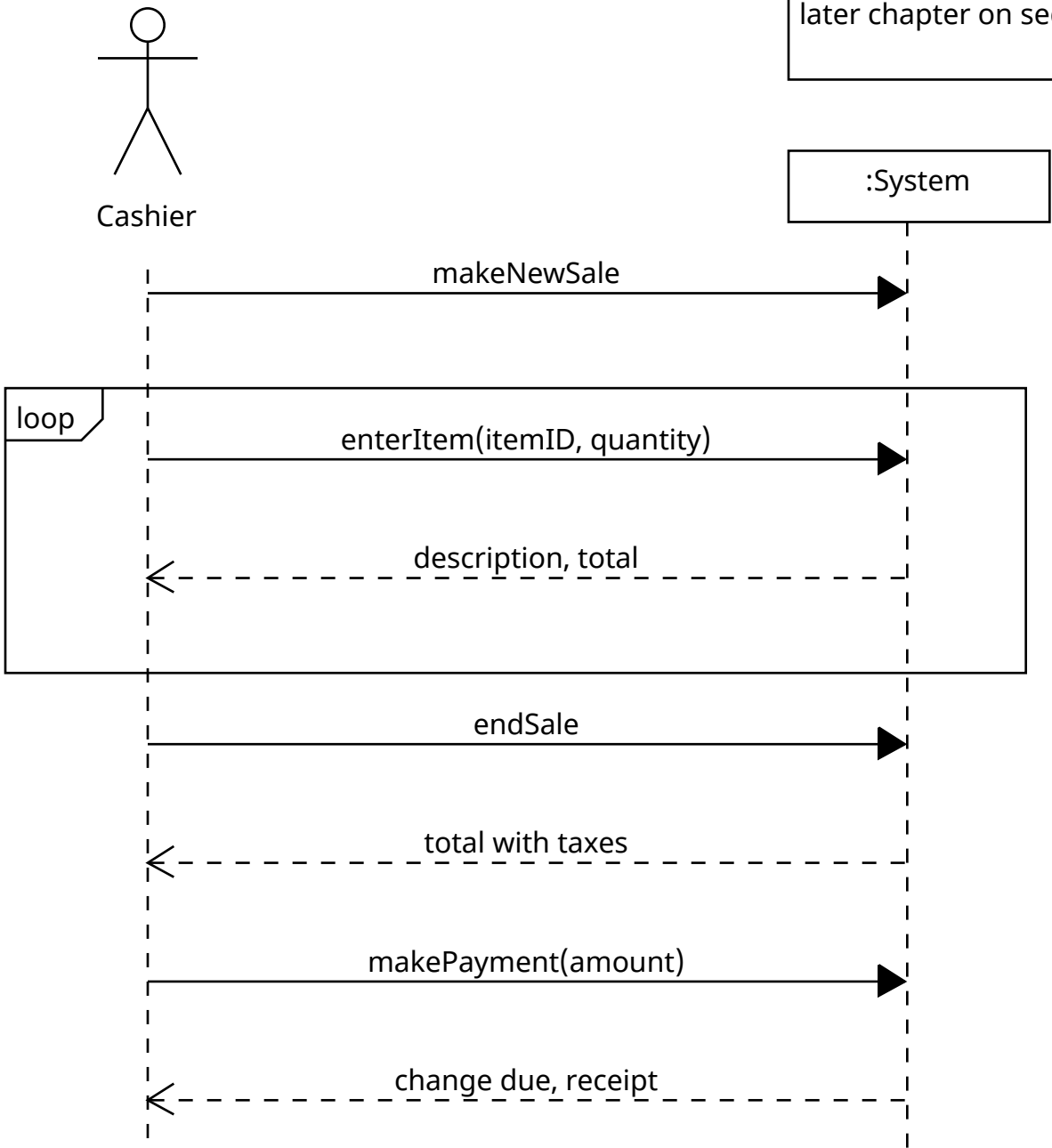
a message with parameters

it is an abstraction representing the system event of entering the payment data by some mechanism

return value(s) associated with the previous message

an abstraction that ignores presentation and medium

the return line is optional if nothing is returned

makePayment(amount)

change due, receipt