@startuml

actor Customer

actor Paymentunit

actor Deliveryunit

boundary ProductScreen

boundary CheckOutScreen

boundary CartScreen

boundary ExternalSystemScreen

control OrderControl

control ExternalSystem

entity ORDER

entity CARTITEM

entity VOUCHER

entity DELIVERYUNIT

entity PAYMENTUNIT

Customer-> ProductScreen++: Click "Đi đến giỏ hàng"

deactivate ProductScreen

ProductScreen-> OrderControl ++: Process load "Cart" screen

deactivate OrderControl

OrderControl -> CARTITEM++: Process load cart item

deactivate CARTITEM

CARTITEM--> OrderControl ++: Send cart item information

deactivate OrderControl

OrderControl --> CartScreen++: Send cart item information

deactivate CartScreen

CartScreen-> CartScreen++: Load "Cart" screen

deactivate CartScreen

Customer-> CartScreen++: Chosing cart items

deactivate CartScreen

Customer-> CartScreen++: Click "Tạo đơn hàng"

deactivate CartScreen

CartScreen-> OrderControl ++: Process create đơn hàng information

deactivate OrderControl

OrderControl -> CARTITEM++: Process take cart item information

deactivate CARTITEM

CARTITEM--> OrderControl ++: Process take cart item information

deactivate OrderControl

OrderControl -> ORDER++: Process create order information

deactivate ORDER

ORDER-> ORDER++: Create order information

deactivate ORDER

ORDER--> OrderControl ++: Process create checkout

deactivate OrderControl

OrderControl --> CheckOutScreen++: Process create checkout

deactivate CheckOutScreen

CheckOutScreen-> CheckOutScreen++: Load "Checkout"

deactivate CheckOutScreen

Customer-> CheckOutScreen++: Chosing voucher, payment, delivery unit

deactivate CheckOutScreen

CheckOutScreen-> OrderControl ++: Process get voucher, payment, delivery unit information

deactivate OrderControl

OrderControl -> VOUCHER++: Get voucher information

deactivate VOUCHER

OrderControl -> DELIVERYUNIT++: Get delivery unit information

deactivate DELIVERYUNIT

OrderControl -> PAYMENTUNIT++: Get payment unit information

deactivate PAYMENTUNIT

VOUCHER--> OrderControl ++: Send voucher information

deactivate OrderControl

DELIVERYUNIT--> OrderControl ++: Send delivery unit information

deactivate OrderControl

PAYMENTUNIT--> OrderControl ++: Send payment unit information

deactivate OrderControl

OrderControl --> CheckOutScreen++: Update voucher, payment, delivery unit information

deactivate CheckOutScreen

CheckOutScreen-> OrderControl ++: Process return price

deactivate OrderControl

OrderControl --> Paymentunit++ : Return price

deactivate Paymentunit

Paymentunit-> ExternalSystemScreen++: Return price

deactivate ExternalSystemScreen

ExternalSystemScreen -> ExternalSystem++: Return price

deactivate ExternalSystem

ExternalSystem--> ExternalSystemScreen++: Return price

deactivate ExternalSystemScreen

ExternalSystemScreen --> Deliveryunit++: Return price

deactivate Deliveryunit

Deliveryunit -> ExternalSystemScreen++: Process calculate price, update UI

deactivate ExternalSystemScreen

ExternalSystemScreen-> OrderControl ++: Process calculate price, update UI

deactivate OrderControl

OrderControl --> CheckOutScreen++: Calculate price, update UI

deactivate CheckOutScreen

Customer-> CheckOutScreen++: Click "Đặt hàng"

deactivate CheckOutScreen

CheckOutScreen-> CheckOutScreen++: Validate

deactivate CheckOutScreen

alt Fail

CheckOutScreen-> CheckOutScreen++: Show error notification

deactivate CheckOutScreen

end

alt Achieve

CheckOutScreen-> OrderControl ++: Process create new order

deactivate OrderControl

OrderControl -> ORDER++:Process create new order

deactivate ORDER

ORDER-> ORDER++: Store data

deactivate ORDER

ORDER--> OrderControl ++: Successful notification

deactivate OrderControl

OrderControl --> CheckOutScreen++: Thông báo đặt hàng thành công và reload UI

deactivate CheckOutScreen

end

@enduml