@startuml

actor Customer

actor Paymentunit

actor Deliveryunit

boundary ProductScreen

boundary ProductDetailScreen

boundary CheckOutScreen

boundary AddToCartScreen

boundary ExternalSystemScreen

control OrderControl

control ExternalSystem

entity ORDER

entity CARTITEM

entity VOUCHER

entity DELIVERYUNIT

entity PRODUCT

entity PARAMETER

entity PAYMENTUNIT

Customer-> ProductScreen++: Click item product on "List Product

deactivate ProductScreen

ProductScreen-> OrderControl ++: Process load "Product Detail" Screen

deactivate OrderControl

OrderControl -> PRODUCT++: Get product detail information

deactivate PRODUCT

OrderControl -> PARAMETER++: Get product detail information

deactivate PARAMETER

PRODUCT--> OrderControl ++: Send product detail information

deactivate OrderControl

PARAMETER--> OrderControl ++: Send product detail information

deactivate OrderControl

OrderControl --> ProductDetailScreen++: Send product detail information

deactivate ProductDetailScreen

ProductDetailScreen-> ProductDetailScreen++: Load "Product Detail" Screen

deactivate ProductDetailScreen

Customer-> ProductDetailScreen++ : Click "Mua ngay"

deactivate ProductDetailScreen

ProductDetailScreen-> OrderControl ++: Process load "Adding in Cart"

deactivate OrderControl

OrderControl -> CARTITEM++: Process store cart item

deactivate CARTITEM

CARTITEM--> CARTITEM++: Store cart item

deactivate CARTITEM

CARTITEM--> OrderControl ++: Send cart item

deactivate OrderControl

OrderControl --> AddToCartScreen++: Send cart item

deactivate AddToCartScreen

AddToCartScreen-> AddToCartScreen++: Load "Adding in Cart"

deactivate AddToCartScreen

Customer-> AddToCartScreen++: Giving input

deactivate AddToCartScreen

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

deactivate AddToCartScreen

AddToCartScreen-> 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