Class Design for VNPay Subsystem

VNPayAdapter <<control>>

Attributes:

- apiEndpoint: string

- timeout: int

Methods:

+ sendPaymentRequest(orderId: int, amount: float): PaymentResponse

+ verifyTransaction(transactionId: string): boolean

Responsibilities:

- Xu ly gui yeu cau thanh toan va xac minh giao dich voi he thong VNPay.
- Giao tiep voi VNPayAPI de gui/nhan du lieu tu he thong ben ngoai.

VNPayAPI <<entity>>

Methods:

- + callVNPayAPI(orderId: int, amount: float): PaymentResponse
- + callVerifyAPI(transactionId: string): boolean

Responsibilities:

- Dai dien cho he thong VNPay thuc te.
- Xu ly viec goi API de thuc hien va kiem tra giao dich.

PaymentResponse <<entity>>

Attributes:

- transactionId: string

- status: string

- message: string

Methods:

+ isSuccessful(): boolean

Responsibilities:

- Dong goi ket qua tra ve tu he thong VNPay.

- Ho tro xac dinh giao dich thanh cong hay that bai.	