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**VNPAY SUBSYSTEM DOCUMENT**

Ảnh có chứa văn bản, ảnh chụp màn hình, biểu đồ, Phông chữ

Mô tả được tạo tự động

1. payOrderManager
2. Description: Manage payment order of customer, send and receive requests, responses to client.
3. Operation definition:

* sendPayOrder(queryURL: String): void
* processResponse(queryString: string): void

1. Operation description

* sendPayOrder: Send queryURL of payment to VNPay Display to display it on screen.
* processResponse: process response from VNPay Display after checking URL.

1. VNPayDisplay
2. Description: Handle display and interaction related to VNPay
3. Operation definition:

* displayURL(URL: String): void
* displayURL(returnURL: String): void
* checkURLChange(): void

1. Operation description

* displayURL(URL: string): display payment’s URL received from payOrderManager
* displayURL(returnURL: String): display payment’s URL with response from VNPay
* checkURLChange(): check the change of URL

1. request
2. Description: represent payment request object
3. Operation definition:

* request(amount: double, orderInfo: String): void
* buildQueryURL(vnp\_Version: string, vnp\_Command: string, vnp\_TmnCode: String, vnp\_Amount: float, vnp\_Date: long)

1. Operation description:

* request: Initialize request object with amount and orderInfo
* buildQueryURL: process and build queryURL to send back to payOrderManagement

1. response
2. Description: represent payment response object
3. Operation definition:

* response(query: String): void
* handleErrorCode(): void
* parseQueryString(): void

1. Operation description:

* response: initialize response object with query string
* handleErrorCode: process error code and return corresponding error
* void parseQueryURL: parse query URL from response