

CLASS DESIGN

A, DETAIL CLASS DESIGN

1. PaymentController

PaymentController	
- card : CreditCard - interbank : InterbankInterface	
+ payOrder(order : Order, creditCard : CreditCard) : Map<String,String> + getExpirationDate(date : String) : Date	

Attribute

#	Name	Data type	Default value	Description
1	interbank	InterbankInterface	NULL	Performing Interbank Subsystem
2	card	CreditCard	NULL	Performing Credit Card

Operation

#	Name	Return type	Description (purpose)
1	payOrder	Map<String,String>	Send payment information to Interbank

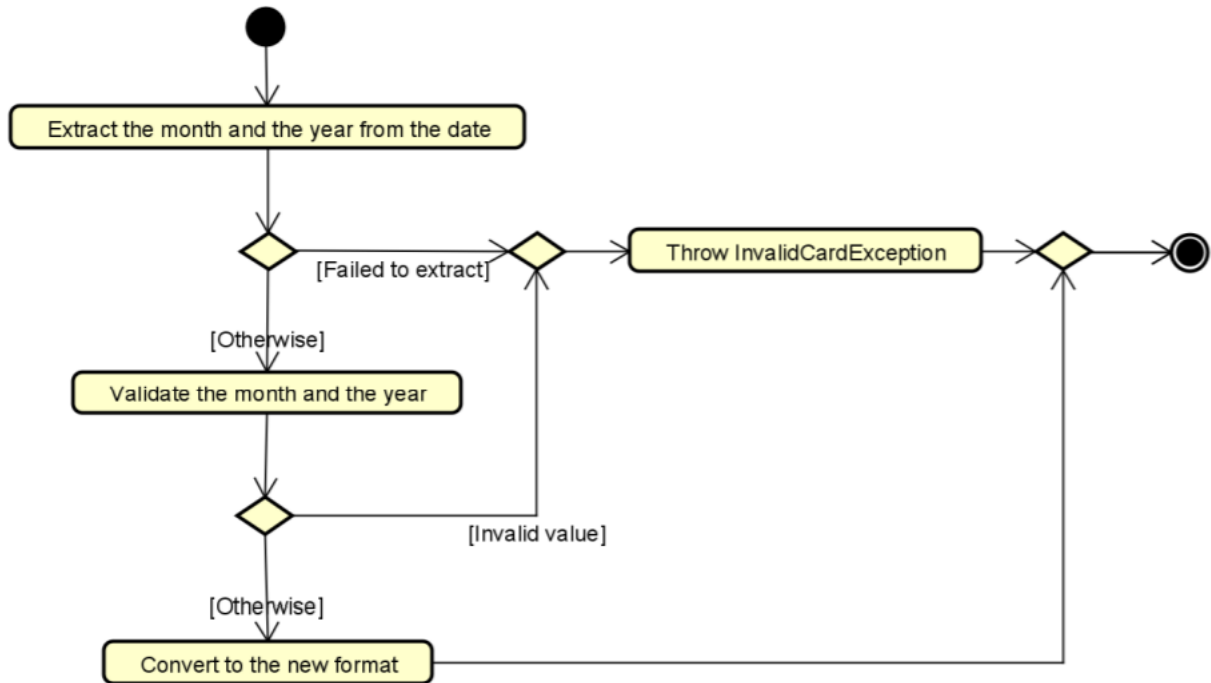
Parameter:

- order – Information Order
- creditCard – Information Credit Card

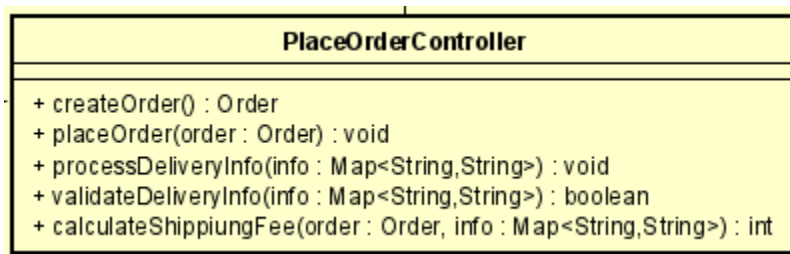
Exception: None

Method

getExpirationDate: With the string “date” representing the expiration date in the format "mm/yy", this method converts it to the required format "mm/yy".



2. Class “PlaceOrderController”



Attribute

- None

Operation

#	Name	Return type	Description (purpose)
1	placeOrder	void	Place Order
2	processDeliveryInfo	void	Display Delivery Form, Save information about users, utils, and ordered products and export orders.
3	validateDeliveryInfo	boolean	Check that the information entered by the user is filled in completely and in the correct format
4	calculateShippingFees	int	Calculate shipping fee, get distance information
5	createOrder	Order	Create Order

Parameter:

- info: information of the fields that the user enters in the Delivery form
- order: Information Order

Exception:

- InvalidDeliveryInfo: Input information is missing or not in the correct format.

Method

- None

3. Class “PlaceRushOrderController”

PlaceRushOrderController
+ placeRushOrder() : void + checkAddress(address : String) : boolean + checkMediaSupport(product : Media[]) : boolean + processRushDeliveryInfo(info : Map<String,String>) : void + validateSupportRushDelivery(info : Map<String,String>) : boolean

Attribute

- None

Operation

#	Name	Return type	Description (purpose)
1	placeRushOrder	void	Make fast delivery.
2	checkAddress	boolean	Check to see if the location supports express delivery.
3	checkMediaSupport	boolean	Check if the product supports fast delivery.
4	processRushDeliveryInfo	void	Process fast delivery information when customers press submit.
5	validateRushDeliveryForm	boolean	Check that the information entered by the user is complete and in the correct format

Parameter:

- info: information of the fields that the user enters in the Delivery form
- product: ordered product list

Exception:

- InvalidDeliveryInfo: Input information is missing or not in the correct format.
- NotSupportRushDelivery: Address or all products do not support express delivery

Method

- None