

Class design

1.PaymentController

PaymentController	
- card : CreditCard	
- interbank : InterbankInterface	
- getExpirationDate(date : String) : String	
+ payOrder(amount : int, content : String, cardNumber : String, expirationDate : String, securityCode : String) : Map	

attribute

	Name	Data type	Default value	Description
1	card	CreditCard	NULL	Represent the card used for payment
2	interbank	InterbankInterface	NULL	Represent the Interbank subsystem

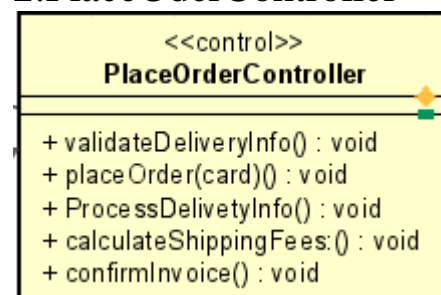
Operation

	Name	Return type	Description
1	payOrder	Map<String,String>	Pay order, and then return the result with a message

Parameter:

- amount - the amount to pay
- contents - the transaction contents
- cardNumber - the card number
- cardHolderName - the card holder name
- expirationDate - the expiration date in the format "mm/yy"
- securityCode - the cvv/cvc code of the credit card

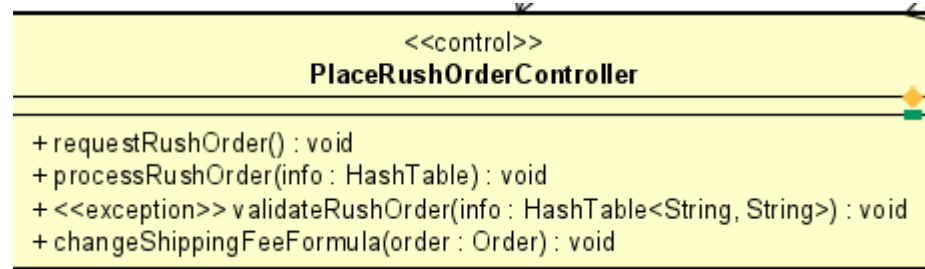
2.PlaceOrderController



Operation

	Name	Return type	Description
1	validateDeliveryInfo	void	Check info
2	placeOrder	void	
3	ProcessDeliveryInfo	void	
4	calculateShippingFees	void	
5	confirmInvoice	void	

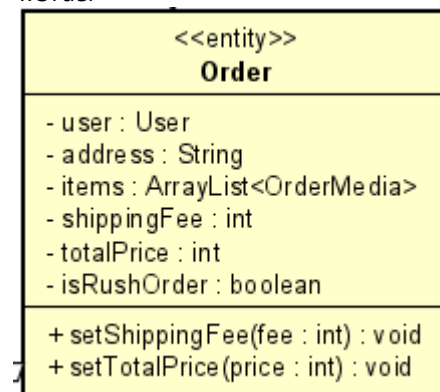
3. PlaceRushOrderController



Operation

#	Name	Return type	Description
1	requestRushOrder	void	display form
2	processRushOrder	void	receive rush order info
3	validateRushOrder	void	check address and media supportivity and throws exception
4	changeShippingFeeFormula	void	re-calculate shipping fee with new formula

4. Order



Attribute

#	Name	Data type	Default value	Description
1	user	User	NULL	order's owner
2	address	String	NULL	shipping address
3	items	ArrayList<OrderMedia>	empty ArrayList	medias in the order
4	shippingFee	int	0	
5	totalPrice	int	0	total price include shipping
6	isRushOrder	Boolean	false	Whether user want rush delivery

Operation

#	Name	Return type	Description
1	setShippingFee	void	update shipping fee
2	setTotalPrice	void	update total price

Parameter:

- fee – the new shipping fee
- price – the new total price of the order