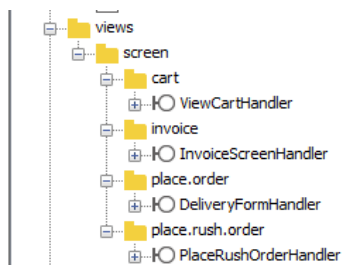
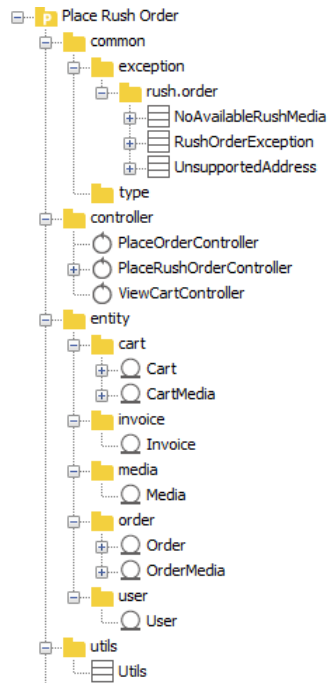
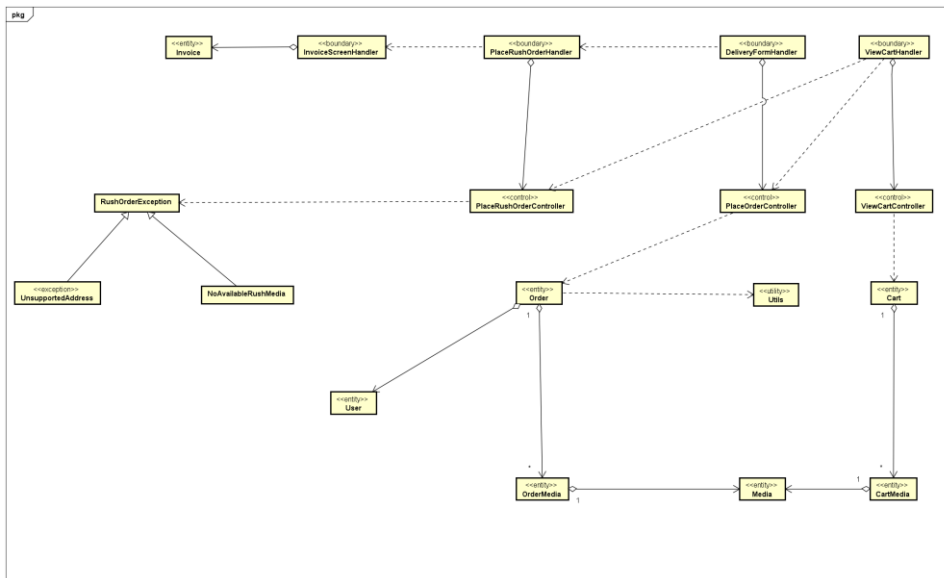


Class Design

1. Classes Structure

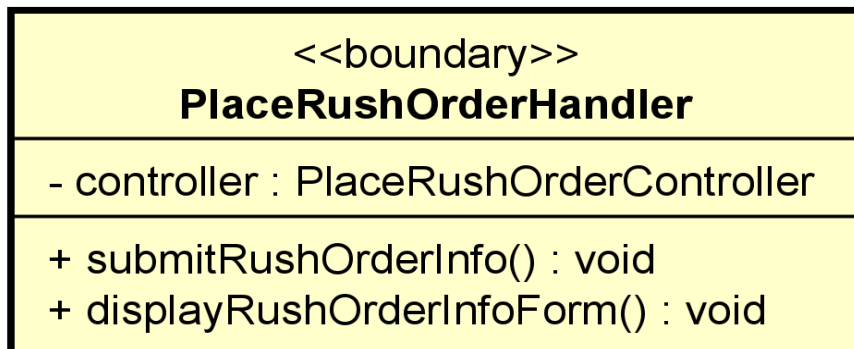


2.Classes relationship



3. Class Design

3.1. Class “PlaceRushOrderHandler”



Attribute

#	Name	Data type	Default value	Description
1	controller	PlaceRushOrderController	NULL	the screen controller

Operation

#	Name	Return type	Description
1	submitRushOrderInfo	void	handle user click form submit button
2	displayRushOrderInfoForm	void	rendering the rush delivery form for user to fill

Parameter:

None

Exception:

None

Method

None

State

None

3.2. Class “PlaceRushOrderController”

<<control>> PlaceRushOrderController	
 + requestRushOrder() : void + processRushOrder(info : HashTable) : void + <<exception>> validateRushOrder(info : HashTable<String, String>) : void + changeShippingFeeFormula(order : Order) : void	

Attribute

None

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

Parameter:

info – the info in the rush delivery form

order – the order to change fee

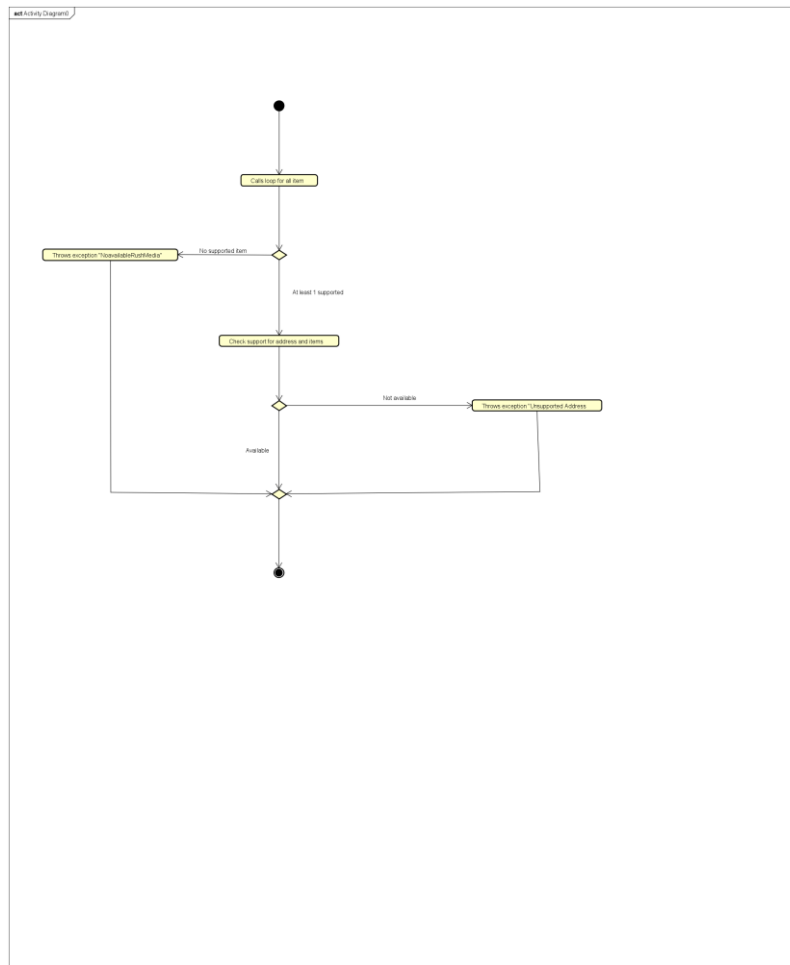
Exception:

NoAvailableRushMedia – throw when there is no supported media for rush delivery

UnsupportedAddress – throw if the address is not supported by rush delivery

Method

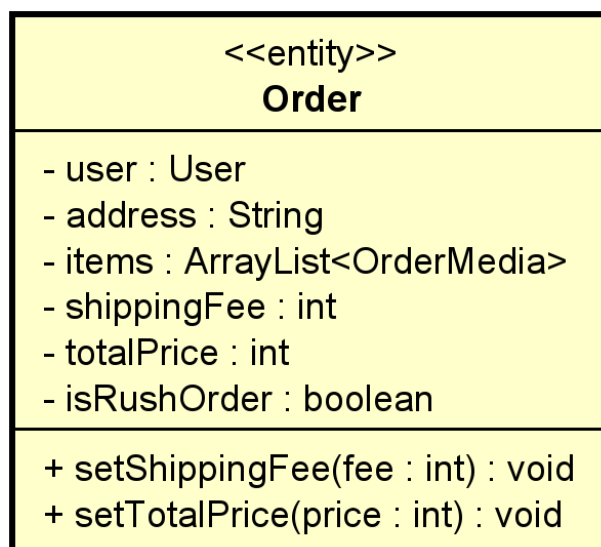
validateRushOrder:



State

None

3.3. Class “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

Exception:

None

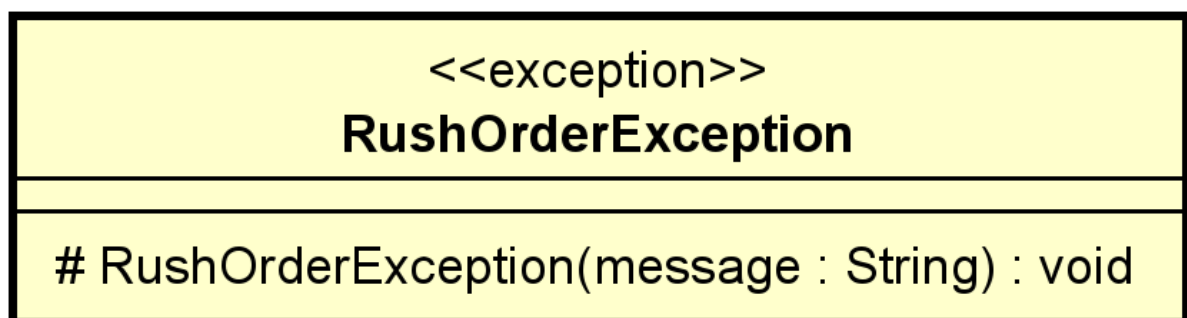
Method

None

State

None

3.4. Class “RushOrderException”



Attribute

None

Operation

#	Name	Return type	Description
---	------	-------------	-------------

1	RushOrderException	void	create a new exception message for rush order
---	--------------------	------	---

Parameter:

None

Exception:

None

Method

None

State

None

4. Class Diagram

