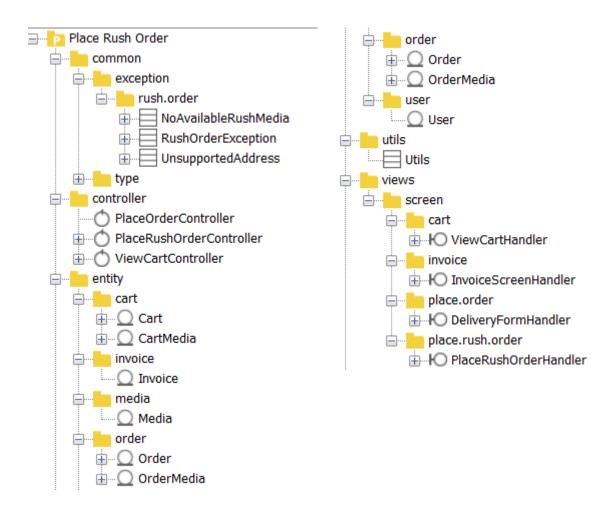
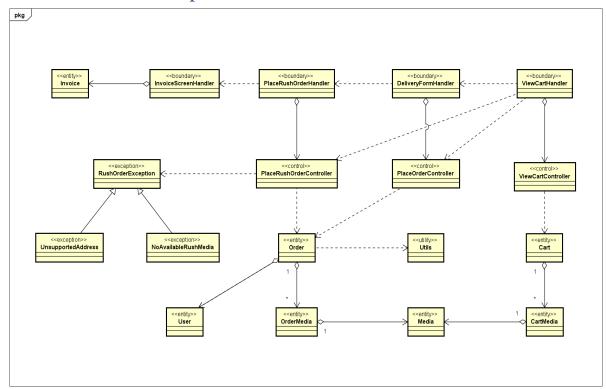
Class Design

1. Create Initial Design Classes



2. Define Relationships Between Classes



3. Class Design

3.1. Class "PlaceRushOrderHandler"

<<box>boundary>> PlaceRushOrderHandler

- controller : PlaceRushOrderController
- + submitRushOrderInfo(): void
- + displayRushOrderInfoForm(): void

Attribute

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

Operation

#	Name	Return type	Desciption
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	Desciption
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:

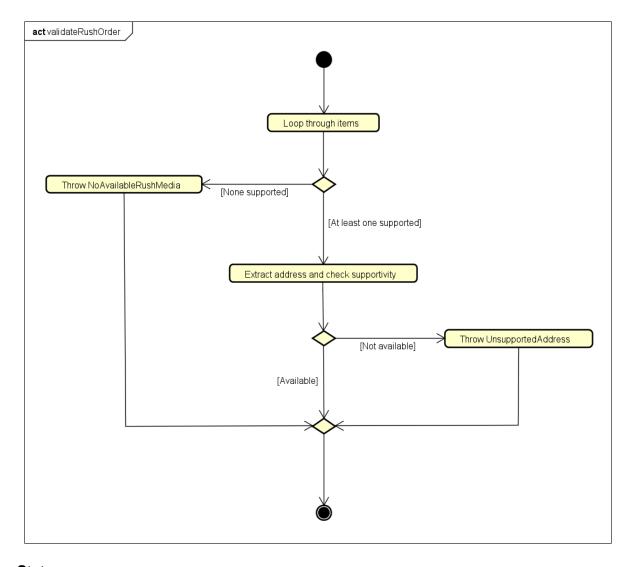
info – the info in the rush delivery form order – the order to change fee

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"

<<entity>> Order

- user : User

- address : String

- items : ArrayList<OrderMedia>

shippingFee : inttotalPrice : int

- isRushOrder : boolean

+ setShippingFee(fee : int) : void + setTotalPrice(price : int) : void

Attribute

#	Name	Data type	Default value	Description
1	user	User	NULL	order's owner
2	address	String	NULL	shipping address
3	items	ArrayList <ordermedia></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	Desciption
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

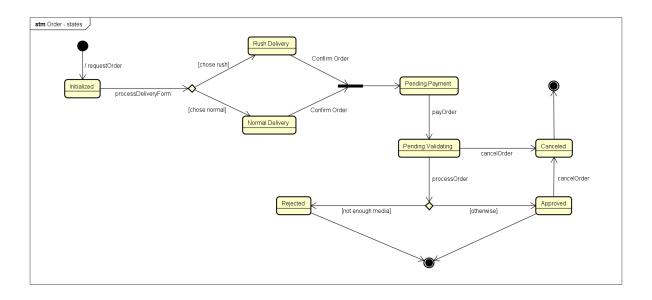
Exception:

None

Method

None

State



3.4. Class "RushOrderException"

<<exception>> RushOrderException

RushOrderException(message : String) : void

Attribute

None

Operation

#	#	Name	Return type	Desciption
1		RushOrderException	void	create a new exception message for
				rush order

Parameter:

None

Exception:

None

Method

None

State

None

4. Class Diagram

