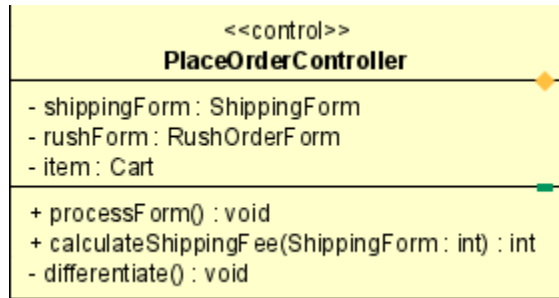


CLASS DESIGN

1. Class design:

1.1. Class "PlaceOrderController":



Attribute:

#	Name	Data type	Default Value	Description
1	shippingForm	ShippingForm	Null	Information in the shipping form that customer has given
2	rushForm	RushOrderForm	Null	Information in the rushForm that customer has given
3	item	Cart	Null	All the items that customer has offered

Operation:

#	Name	Return type	Description (purpose)
1	processForm	null	Checking information in the form (address for rush order)
2	calculateShippingFee	int	Calculate the new fee (because rush order has more fee than normal order)

Parameter:

- Name: name of customer
- Phone: phone number of customer

- Province: province of customer
- Address: address of customer
- Instruction: instruction of customer
- timeToShip: the time that customer want to receive items

Exception:

- FormException – if responded with a pre-defined error code

Method:

- Differentiate: differentiate which items support Rush Order & which items don't support, hence calculate the fee based on these items.

State:

- None

1.2. Class “ShippingForm”:

<<boundary>> ShippingForm	
- name : String	
- phone : String	
- province : String	
- address : String	
- instruction : String	
+ checkForm() : void	
+ getName() : String	
+ getPhone() : String	
+ getProvince() : String	
+ getAddress() : String	
+ getInstruction() : String	

Attribute:

#	Name	Data type	Default Value	Description
1	name	String	Null	Name of customer
2	phone	String	Null	Phone number of customer
3	province	String	Null	Province of customer

4	address	String	Null	Address of customer
5	instruction	String	Null	Instruction of customer

Operation:

#	Name	Return type	Description (purpose)
1	checkForm	null	Checking information in the form (information is identified or not)
2	getName	String	Get name of customer
3	getAddress	String	Get address of customer
4	getPhone	String	Get phone of customer
5	getProvince	String	Get name of customer
6	getName	String	Get name of customer

Exception:

- ShippingFormException – if responded with a pre-defined error code

Method:

- none

State:

- none

1.3. Class “RushOrderForm”:

<<boundary>> RushOrderForm
- timeToShip : Time
+ checkRushOrderForm() : void + getTimeToShip() : Time

Attribute:

#	Name	Data type	Default Value	Description
1	timeToShip	Time	Null	The time that customer want to receive items

Operation:

#	Name	Return type	Description (purpose)
1	checkRushOrderForm	null	Checking information in the form (information is identified or not)
2	getTimeToShip	Time	Get the time that customer has given

Exception:

- ShippingFormException – if responded with a pre-defined error code

Method:

- none

State:

- none

1.4. Class “UserScreen”:

<<boundary>> UserScreen
- shippingForm : ShippingForm - rushOrderForm : RushOrderForm
+ setName(name : String) : void + setPhone(phone : String) : void + setProvince(province : String) : void + setAddress(address : String) : void + setInstruction(instruction : String) : void + setTimeToShip(time : int) : void

Attribute:

#	Name	Data type	Default Value	Description
1	shippingForm	ShippingForm	Null	A form that has all information of customer
2	rushOrderForm	RushOrderForm	Null	A form for rush order

Operation:

#	Name	Return type	Description (purpose)
1	setName	null	Process the name of customer to shipping form
2	setPhone	null	Process the phone of customer to shipping form
3	setProvince	null	Process the province of customer to shipping form
4	setAddress	null	Process the address of customer to shipping form
5	setInstruction	null	Process the instruction of customer to shipping form
6	setTimeToShip	null	Process the input time to rush order form

Exception:

- ShippingFormException – if responded with a pre-defined error code

Method:

- none

State:

- none

1.5. Class “Cart”:

<<entity>> Cart
- item : Media
+ checkQuantity() : void + getMedia() : Media

Attribute:

#	Name	Data type	Default Value	Description
1	item	Media	Null	The item that customer has offered

Operation:

#	Name	Return type	Description (purpose)
1	checkQuantity	null	Checking the quantity is enough or not
2	getMedia	Media	Get all item that customer has offered

Exception:

- quantityException – if responded with a pre-defined error code

Method:

- none

State:

- none

1.6. Class “Media”:

<<entity>> Media
- quantity : int
+ getItem() : void

Attribute:

#	Name	Data type	Default Value	Description
1	quantity	int	Null	The quantity of item that shop contains

Operation:

#	Name	Return type	Description (purpose)
1	getItem	null	Get information of item

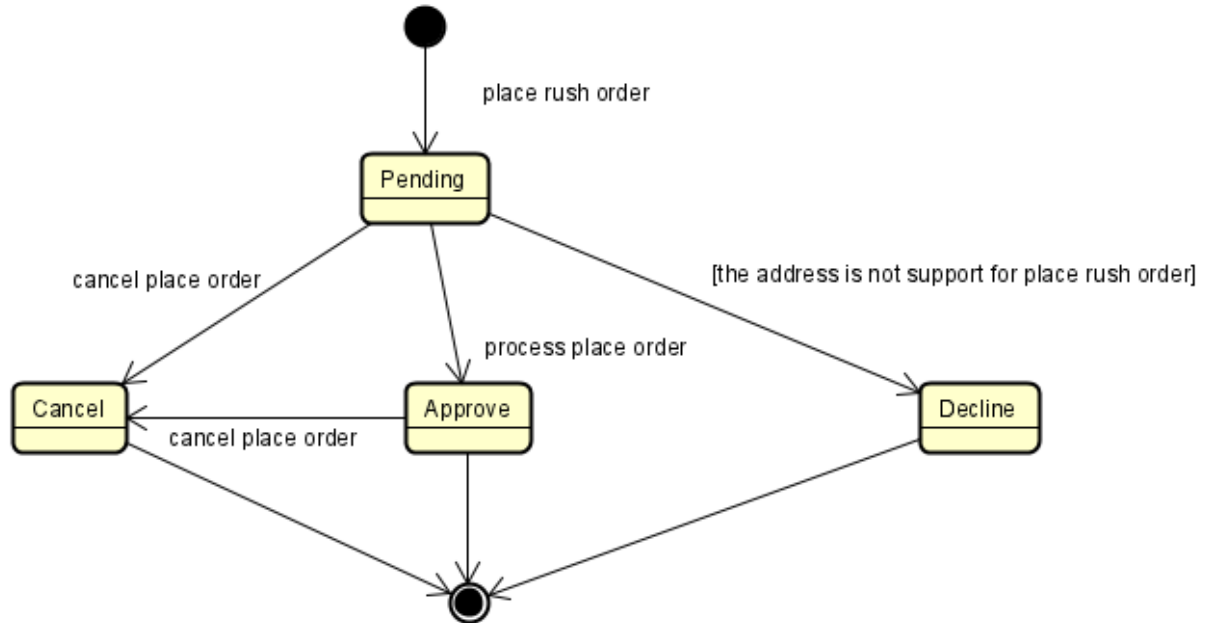
Method:

- none

State:

- none

2. State Machine Diagram:



3. Class diagram:

