

2.1. CREATE INITIAL DESIGN CLASSES

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Project Explorer

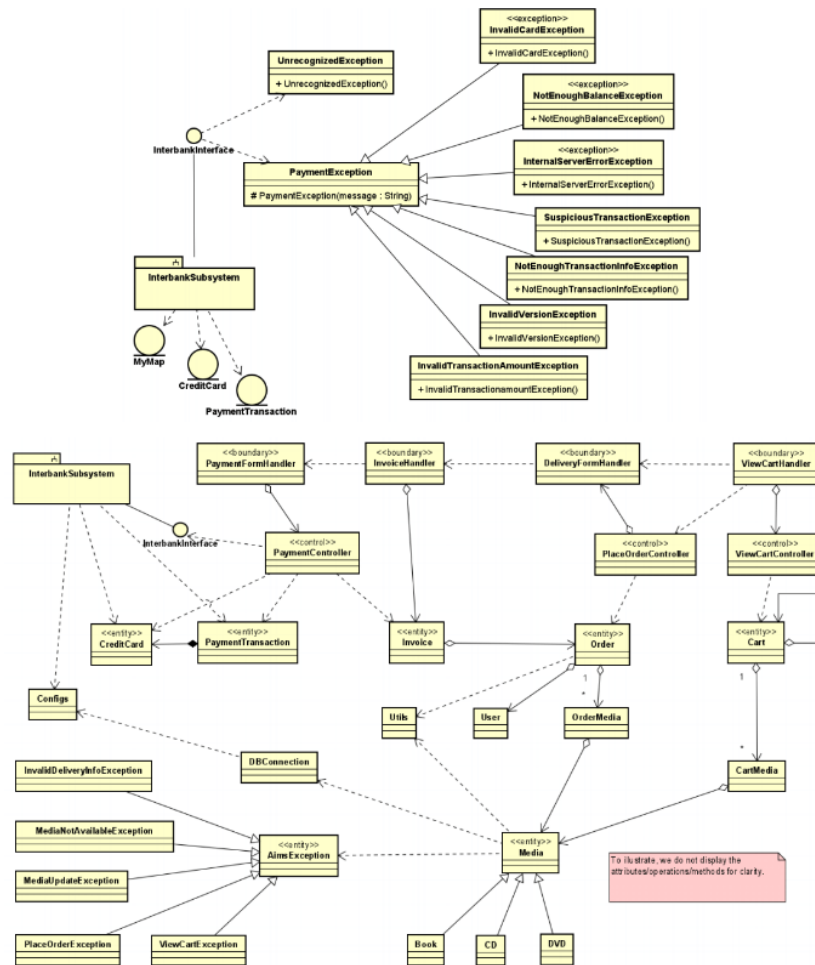
- ▼ Aims
 - > JRE System Library [JavaSE-16]
 - ▼ src
 - ▼ (default package)
 - > App.java
 - ▼ common.exception
 - > InternalServerErrorException.java
 - > InvalidCardException.java
 - > InvalidDeliveryInfoException.java
 - > InvalidTransactionAmountStransection.java
 - > MediaUpdateException.java
 - > NotEnoughBalanceException.java
 - > NotEnoughDeliveryInfoException.java
 - > NotEnoughProductException.java
 - > NotEnoughTransactionInfoException.java
 - > ViewCartException.java
 - ▼ controller
 - > BaseContrller.java
 - > PaymentController.java
 - > PlaceOrderController.java
 - > ViewCartController.java
 - ▼ entity.card
 - > Card.java
 - ▼ entity.cart
 - > Cart.java
 - > CartMedia.java
 - ▼ entity.db
 - > AIMSDB.java
 - ▼ entity.invoices
 - > Invoice.java
 - ▼ entity.media
 - > Book.java
 - > CD.java
 - > DVD.java
 - > Media.java
 - ▼ entity.order
 - > Order.java
 - > RushOrder.java
 - ▼ entity.transaction

CD.java
1
2
3
4
5
6

Cons
No cons

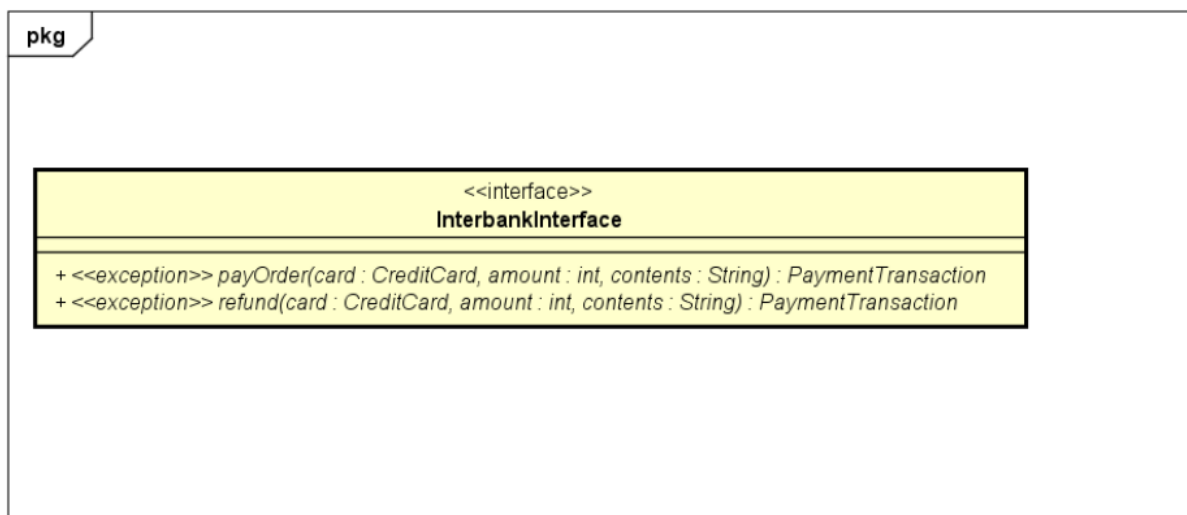
- ▼  > views.fxml
 -  cart.fxml
 -  home.fxml
 -  invoice_rush_order_included.fxml
 -  invoice_rush_order_only.fxml
 -  invoice.fxml
 -  media_cart.fxml
 -  media_home.fxml
 -  media_invoice.fxml
 -  payment.fxml
 -  result.fxml
 -  rush_order.fxml
 -  shipping.fxml
 -  > splash.fxml
- ▼  > views.screen
 - >  > BaseScreenHandler.java
 - >  > FXMLScreenHandler.java
 - >  > SplashScreenHandler.java
- ▼  > views.screen.cart
 - >  > CartScreenHandler.java
 - >  > MediaHandler.java
- ▼  > views.screen.home
 - >  > HomeScreenHandler.java
 - >  > MediaHandler.java
- ▼  > views.screen.invoice
 - >  > InvoiceScreenHandler.java
- ▼  > views.screen.payment
 - >  > PaymentScreenHandler.java
 - >  > ResultScreenHandler.java
- ▼  > views.screen.shipping
 - >  > ShippingScreenHandler.java

2.2. DEFINE RELATIONSHIPS BETWEEN CLASSES



2.3. CLASS DESIGN

2.3.1



Attribute

None

Operation

#	Name	Return type	Description (purpose)
1	payOrder	PaymentTransaction	Pay order, and then return the payment transaction
2	refund	PaymentTransaction	Refund, and then return the payment transaction

Parameter:

- card – the credit card used for payment/refund
- amount – the amount to pay/refund
- contents – the transaction contents

Exception:

- PaymentException – if responded with a pre-defined error code
- UnrecognizedException – if responded with an unknown error code of something goes wrong

Method

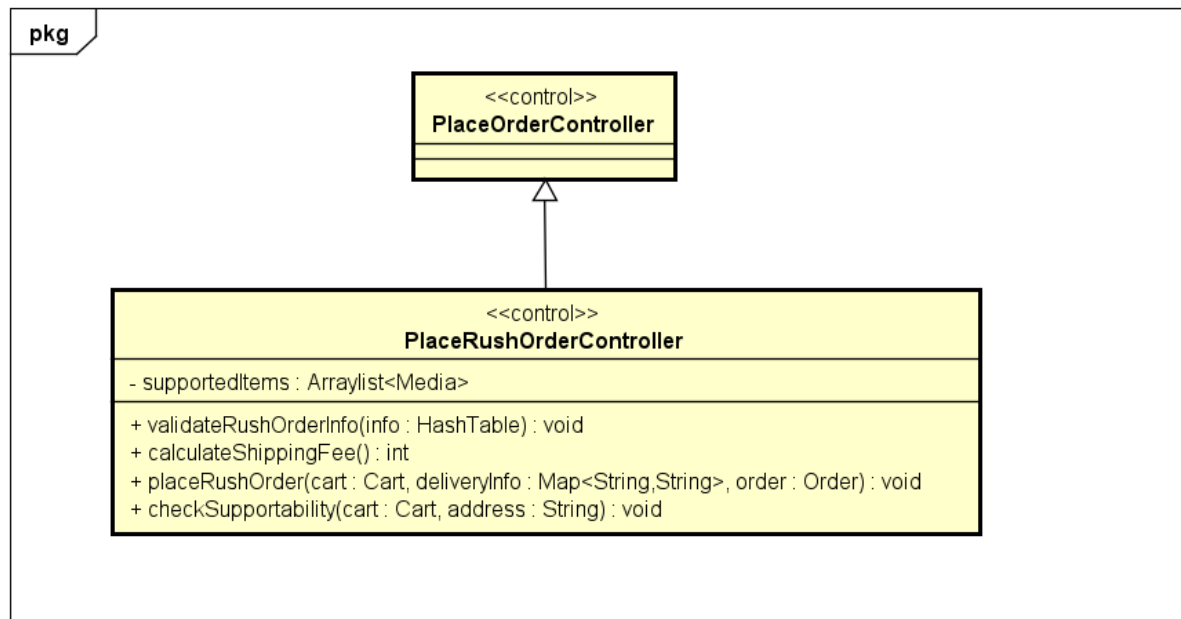
None

State

None

2.4. CLASS DIAGRAM

2.5.1. Class Diagram



2.5.2. Attribute

No	Name	Type	Default value	Description
1	supportedItems	ArrayList<Media>	NULL	A list of Media which support rush order shipping

2.5.3. Operation

No	Name	Return type	Purpose
1	placeRushOrder	void	Place rush order

Parameters:

- cart: represent user's shopping cart with products to place order
- deliveryInfo: information about delivery
- order: the order to be made

No	Name	Return type	Purpose
2	validateRushOrderInfo	void	Validate user input for placing rush order

Parameters:

- info: user input

No	Name	Return type	Purpose
3	calculateShippingFee	int	Calculate shipping fee for rush order

Parameters: None

No	Name	Return type	Purpose
4	checkSupportability	void	Check if there is any item supported by rush order or the address is supported, then make a list of items supported by rush order

Parameters:

- cart: represent user's shopping cart with products to place order
- address: user's delivery address

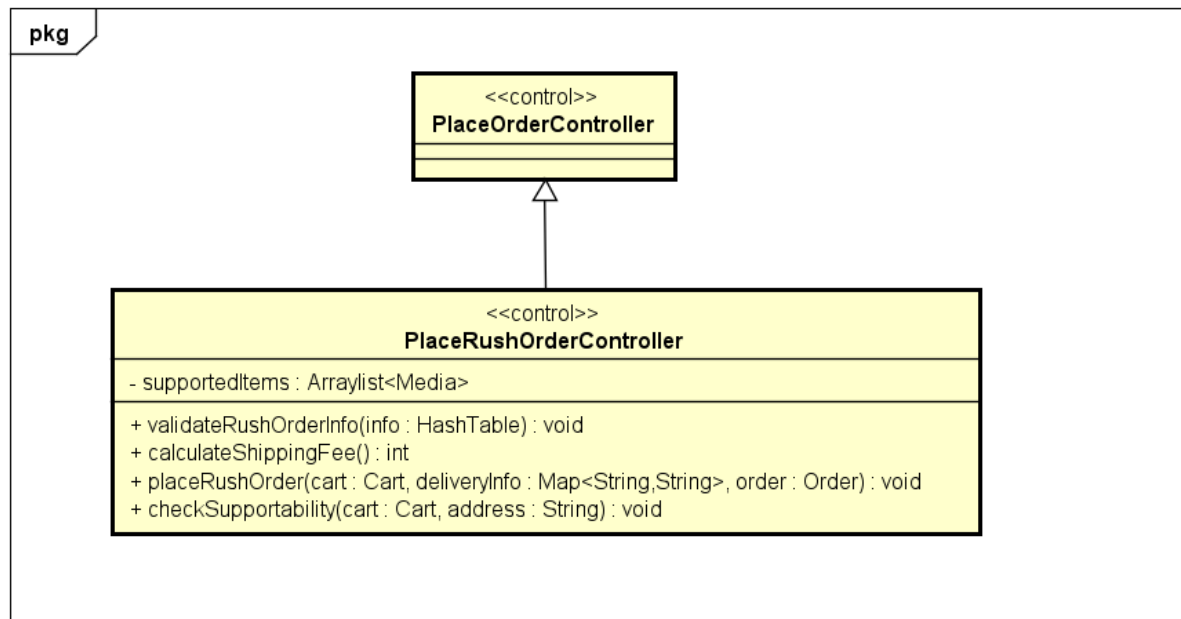
2.5.4. Method

None

2.5.5. State

None

2.4. CLASS DIAGRAM



2.5.2. Attribute

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2.5.4. Method

None

2.5.5. State

None