1. **Class design for “Place order”**
   1. **Define relationships between classes**

Diagram

Description automatically generated

* 1. **Class design**

Text

Description automatically generated

**Operation**

|  |  |  |  |
| --- | --- | --- | --- |
| # | Name | Return type | Description (purpose) |
| 1 | PlaceOrder | void | Receive request to place order |
| 2 | processDeliveryInfo | void | Operate delivery info |
| 3 | calculateShippingFees | void | Calculate shipping fee |
| 4 | checkPlaceRushOrder | boolean | Check if user choose rush order |
| 5 | validateDeliveryInfo | void | Check validatation of info |
| 6 | confirmInvoice | void | User confirm invoice |

**Exception**:

* none
  1. **Class diagram**

Diagram

Description automatically generated

1. **Class design for “Place rush order”**
   1. **Define relationships between classes**

Diagram

Description automatically generated

* 1. **Class design**

Table

Description automatically generated

**Attribute**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| # | Name | Data value | Default value | Description |
| 1 | rushOrderInfo | RushOrder | null | Stores all the media info and shipping info of each media |

**Operation**

|  |  |  |  |
| --- | --- | --- | --- |
| # | Name | Return type | Description (purpose) |
| 1 | requestToPlaceRushOrder | void | Receive request to place rush order if user chooses to place rush order |
| 2 | notifyError | void | Return error to screen |
| 3 | updateShippingFeeFormula | RushOrder | Update shipping fee if rush order is supported |
| 4 | checkAddressSupportRushOrder | boolean | Check address for rush order |

**Parameter**:

* Cart: the cart of user
* newInfo: updated info from user

**Exception**:

* none

**2.3 Class diagram**

Diagram

Description automatically generated