

HANOI UNIVERSITY OF SCIENCE AND TECHNOLOGY
School of Information and Communications Technology

Final Report
Version 1.1

AIMS: An Internet Media Store
Software Design and Construction

Group 02
Trần Xuân Bách 20204634
Nguyễn Ngọc Quỳnh Anh 20204631
Nguyễn Vũ Thục Anh 20204632
Vũ Đức Anh 20193985

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1. Team's members contribution

| Name | Role | Contribution |
|-----------------------|-------------|--|
| Trần Xuân Bách | Team Leader | View list invoice and refund function |
| Nguyễn Ngọc Quỳnh Anh | Member | Search, filter and pagination products |
| Nguyễn Vũ Thục Anh | Member | View detail product |
| Vũ Đức Anh | Member | View Invoice |

2. Use Case Diagrams

2.1. Use Case Diagram

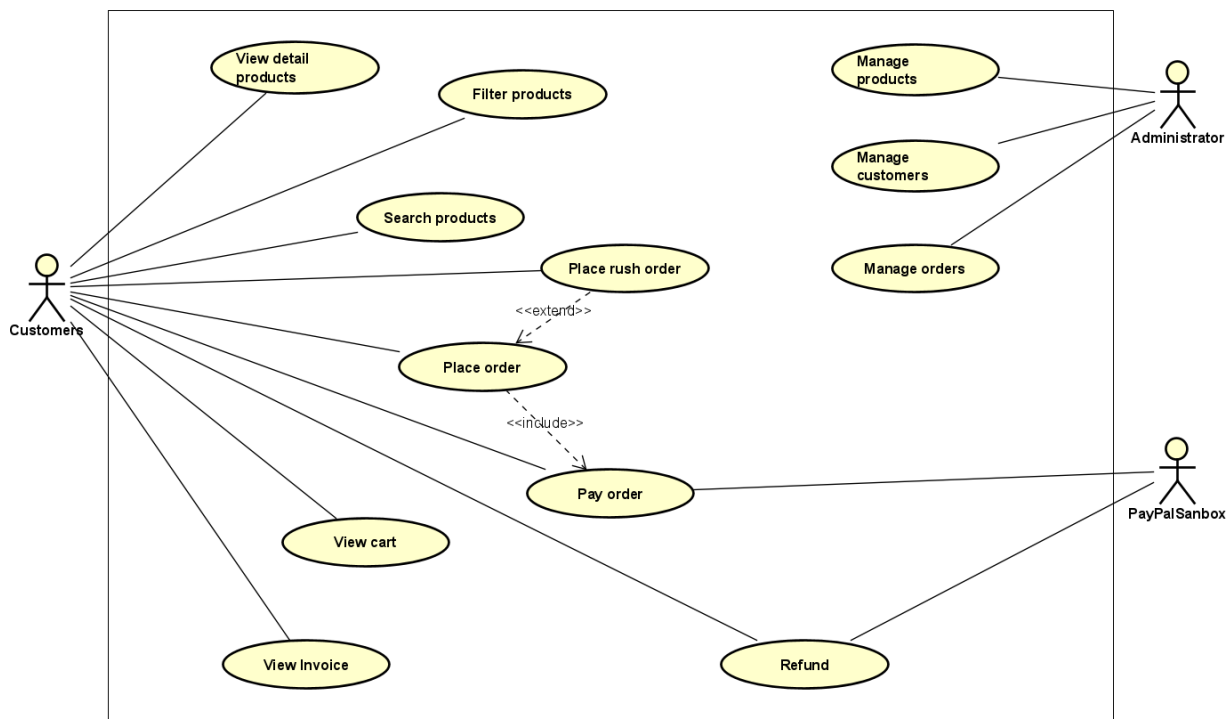


Figure 1: General Use Case Diagram

2.2. Business processes

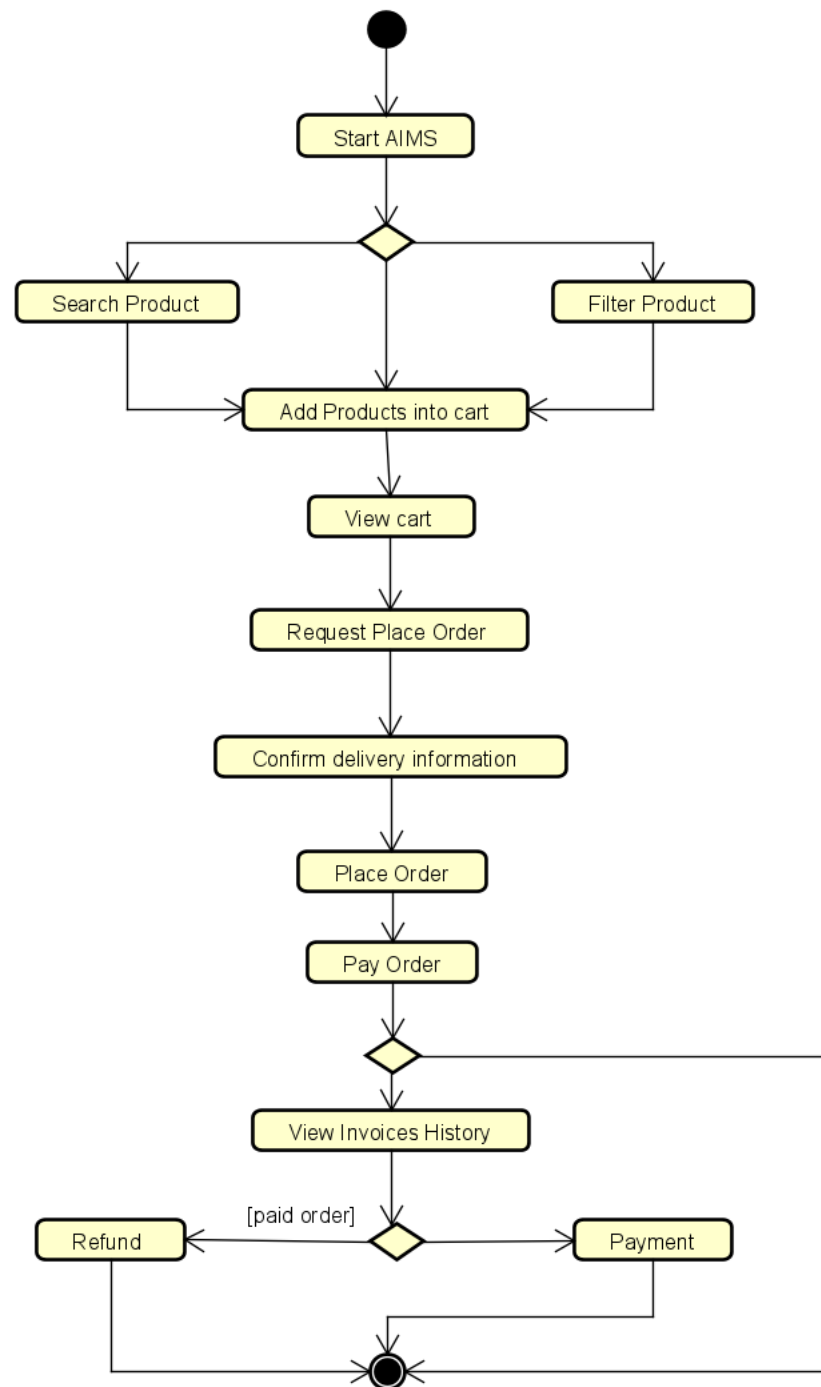


Figure 2: Activity Diagram of customer's usage process

2.3. Case Specification

2.3.1. UC001: View Invoice

2.3.2. UC002: Refund

Use Case “Refund”

1. Use Case code

UC002

2. Brief Description

This use case describes the interaction between Customer and AIMS system when Customer perform order refund.

3. Actors

Customer

4. Preconditions

The customer has viewed invoice

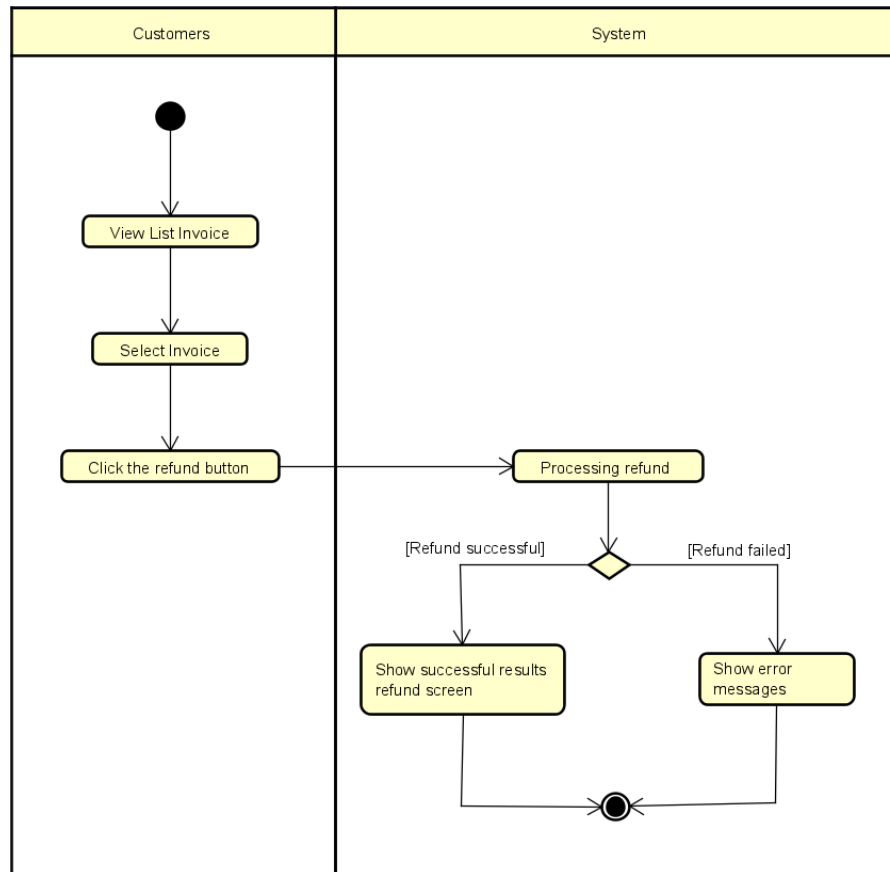
5. Basic Flow of Events

1. The system displays list invoice information (UC001)
2. The customer selects the invoice that needs a refund
3. The system processing the refund
4. The system displays successful refund results

6. Alternative Flows

| No | Location | Condition | Action | Resume Location |
|----|----------|---|--|-----------------|
| 1. | 4 | If the invoice has expired for a refund | <ul style="list-style-type: none">▪ The system displays an error message screen | |
| 2. | | If refund processing fails | <ul style="list-style-type: none">▪ The system displays the message: Refund failed | |

7. Activity Diagram



2.3.3. UC003: Search Products

Use Case “Search Products”

1. Use Case code

UC003

2. Brief Description

This use case describes the interaction between Customer and AIMS system when Customer wishes to search products

3. Actors

Customer

4. Preconditions

The customer has viewed the product list

5. Basic Flow of Events

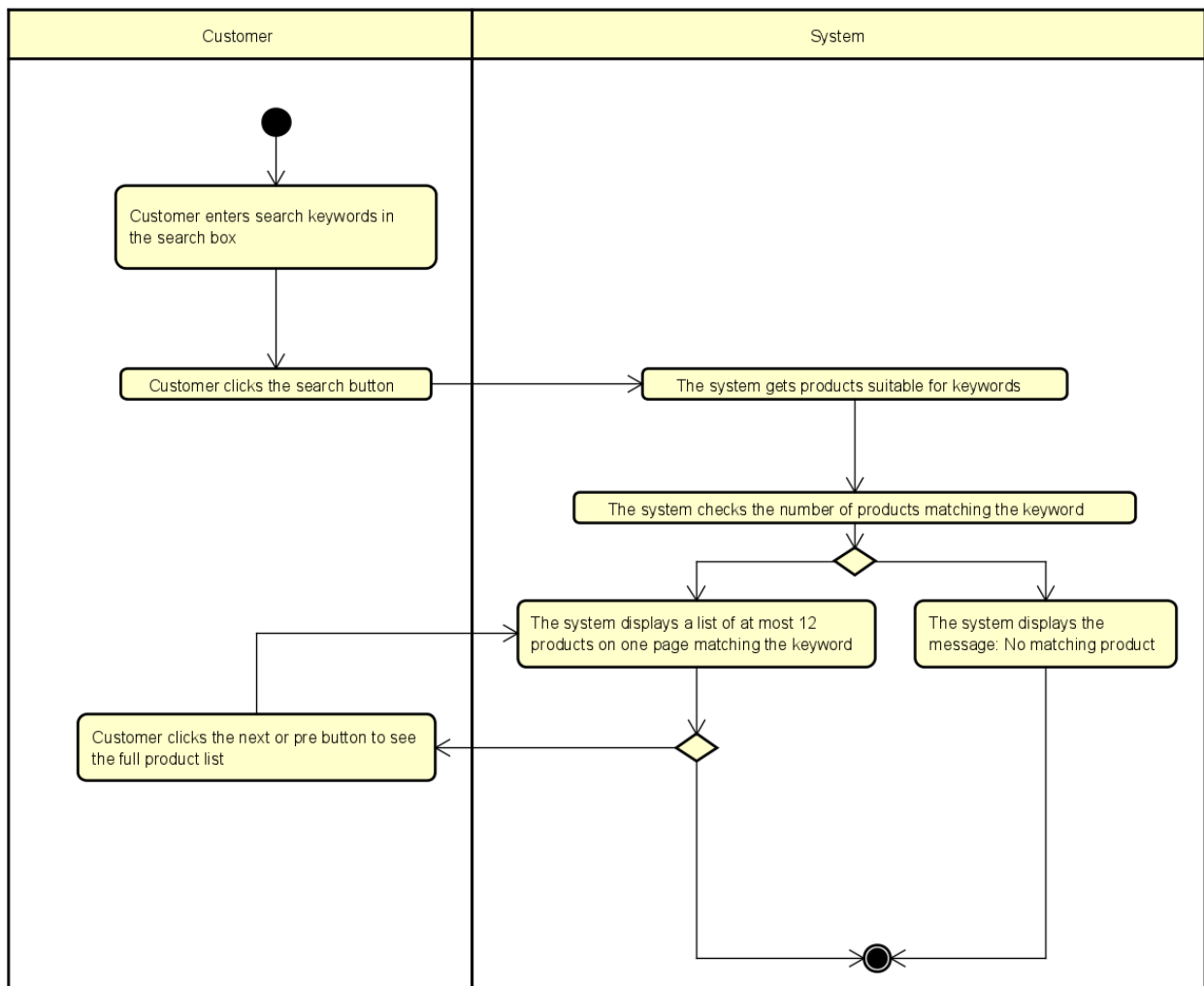
1. Customer enters search keywords in the search box
2. Customer clicks the search button
3. The system gets products suitable for keywords
4. The system checks the number of products matching the keyword
5. The system displays a list of at most 12 products on one page matching the keyword

6. Alternative Flows

Table 4 -Alternative Flow of Use case "Search Products"

| No | Location | Condition | Action | Resume Location |
|----|----------|---|---|-----------------|
| 1. | 5 | If there are no products matching the keyword | <ul style="list-style-type: none"> The system displays the message: There are no matching products | |
| 2. | | If there are more than 12 products matching the keyword | <ul style="list-style-type: none"> Customer clicks the next or pre button to see the full product list | 5 |

7. Activity Diagram



2.3.4. UC004 Filter Products

Use Case “Filter Products”

1. Use Case code

UC004

2. Brief Description

This use case describes the interaction between Customer and AIMS system when Customer wishes to filter products

3. Actors

Customer

4. Preconditions

The customer has viewed the product list

5. Basic Flow of Events

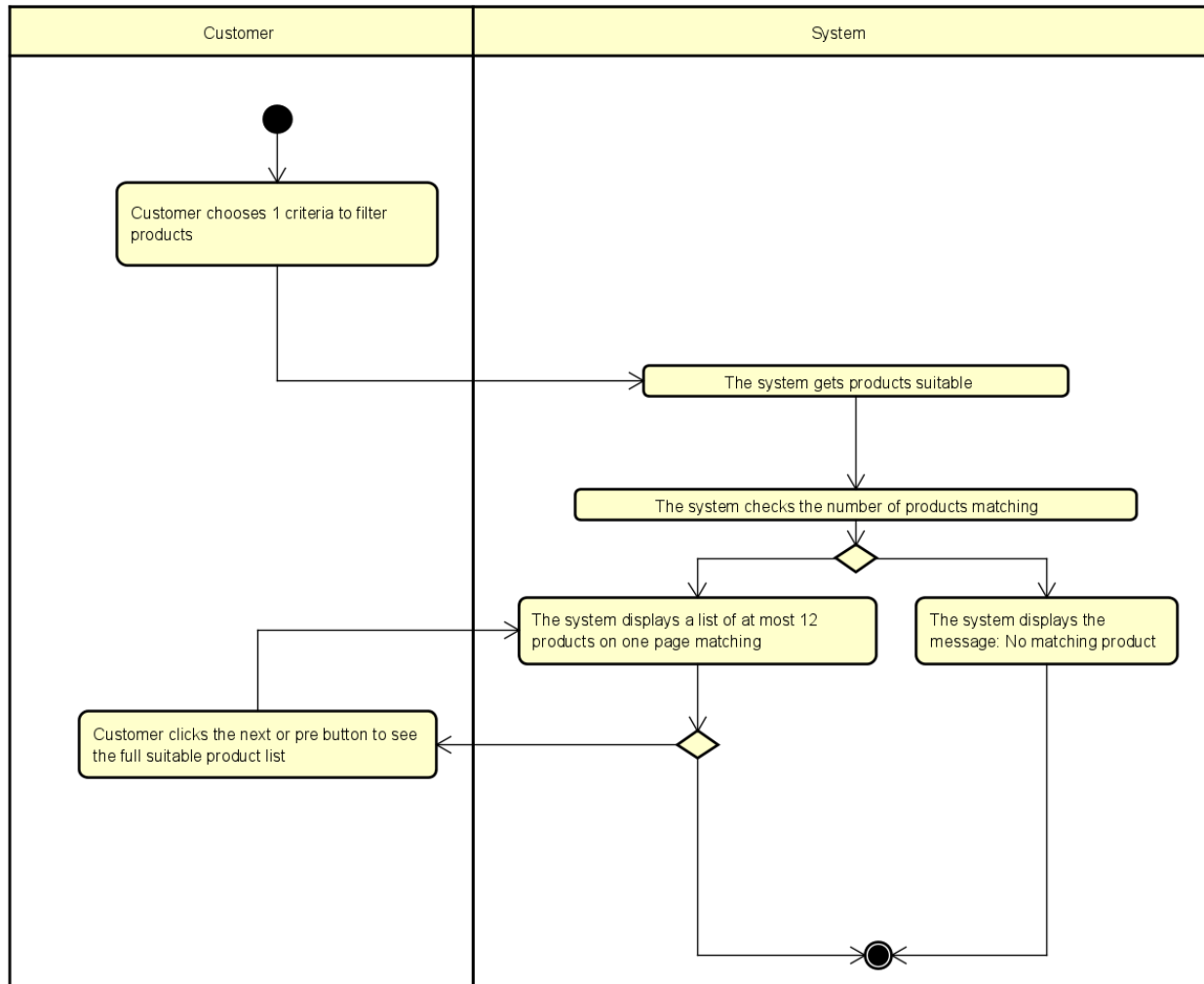
1. Customer chooses 1 criteria to filter products
2. The system gets products suitable
3. The system checks the number of products matching
4. The system displays a list of at most 12 products on one page matching

6. Alternative Flows

Table 4 -Alternative Flow of Use case "Filter Products"

| No | Location | Condition | Action | Resume Location |
|----|----------|---|---|-----------------|
| 1. | 5 | If there are no products matching | <ul style="list-style-type: none">▪ The system displays the message: There are no matching products | |
| 2. | | If there are more than 12 products matching | <ul style="list-style-type: none">▪ Customer clicks the next or pre button to see the full product list | 4 |

7. Activity Diagram



2.3.5. UC005 Detail Products

Use Case “Detail Products”

1. Use Case code

UC005

2. Brief Description

This use case describes viewing product details

3. Actors

Customer

4. Preconditions

The customer has viewed detail product

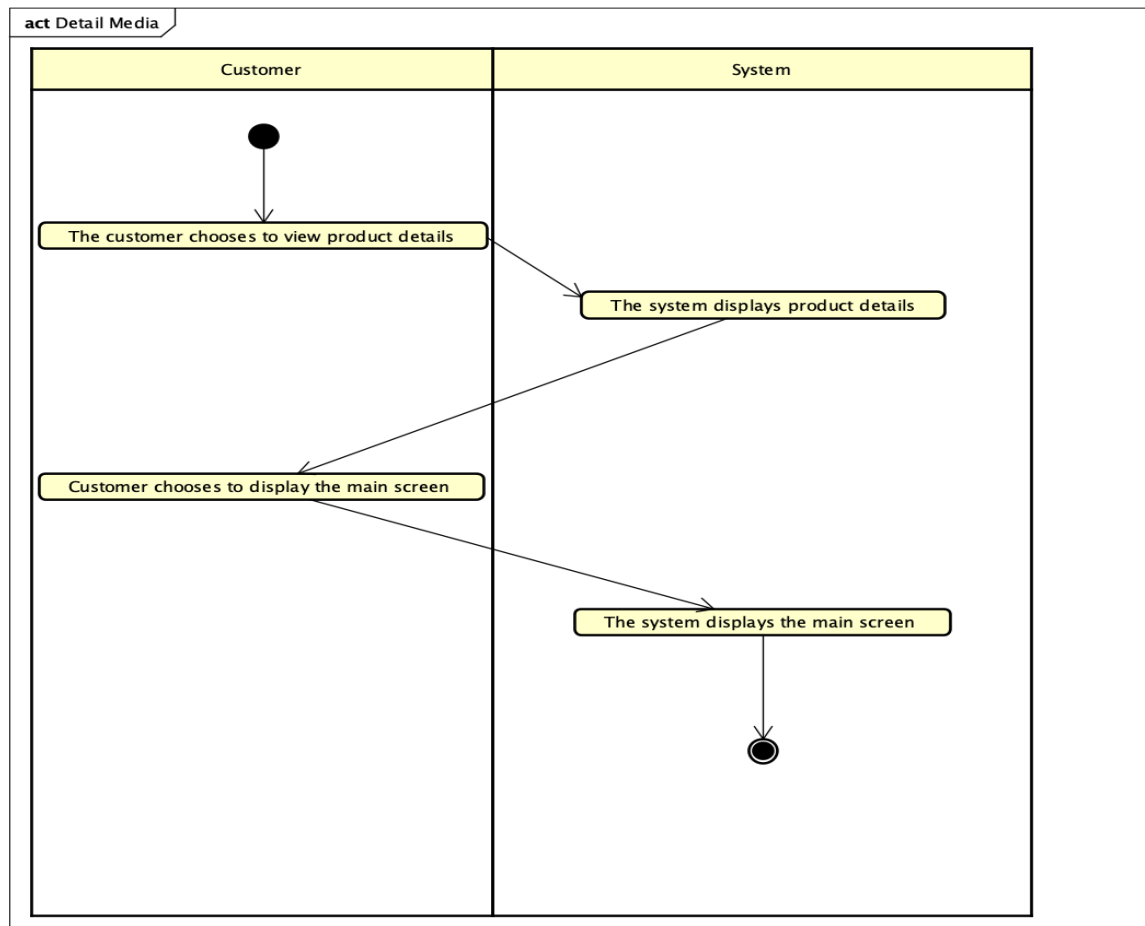
5. Basic Flow of Events

1. The customer chooses to view product details
2. The system displays product details

3. Customer chooses to display the main screen
4. The system displays the main screen

6. Alternative Flows

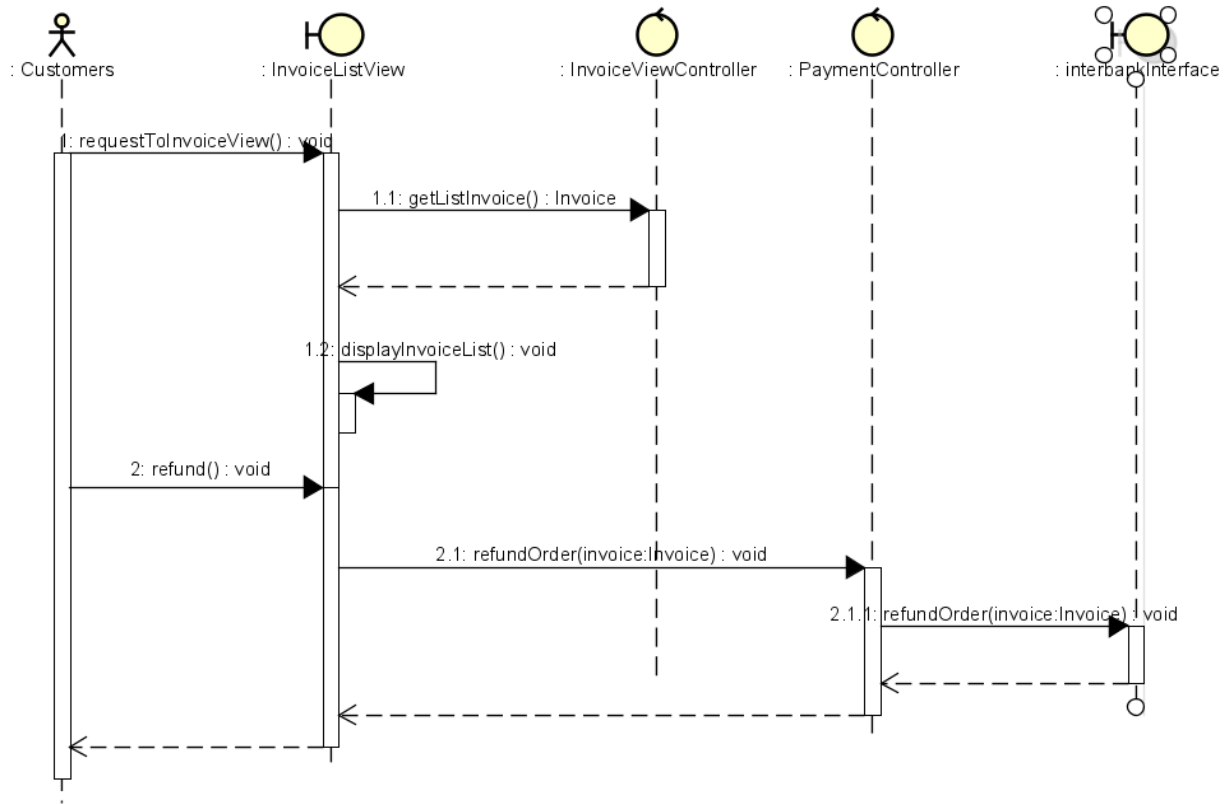
7. Activity Diagram



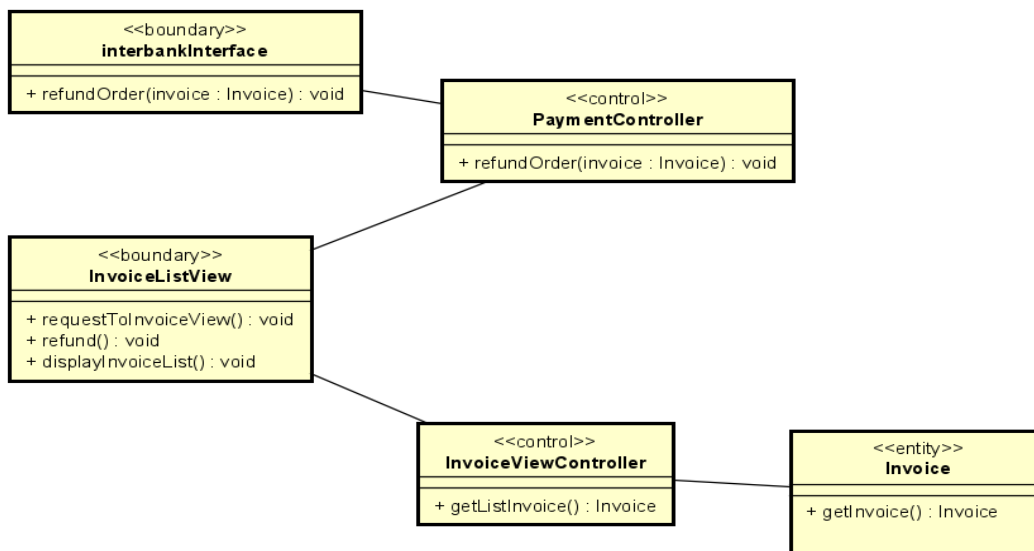
3. Use Case Analysis

3.1. Use Case “Refund”

3.1.1. Sequence Diagram for UC “Refund”

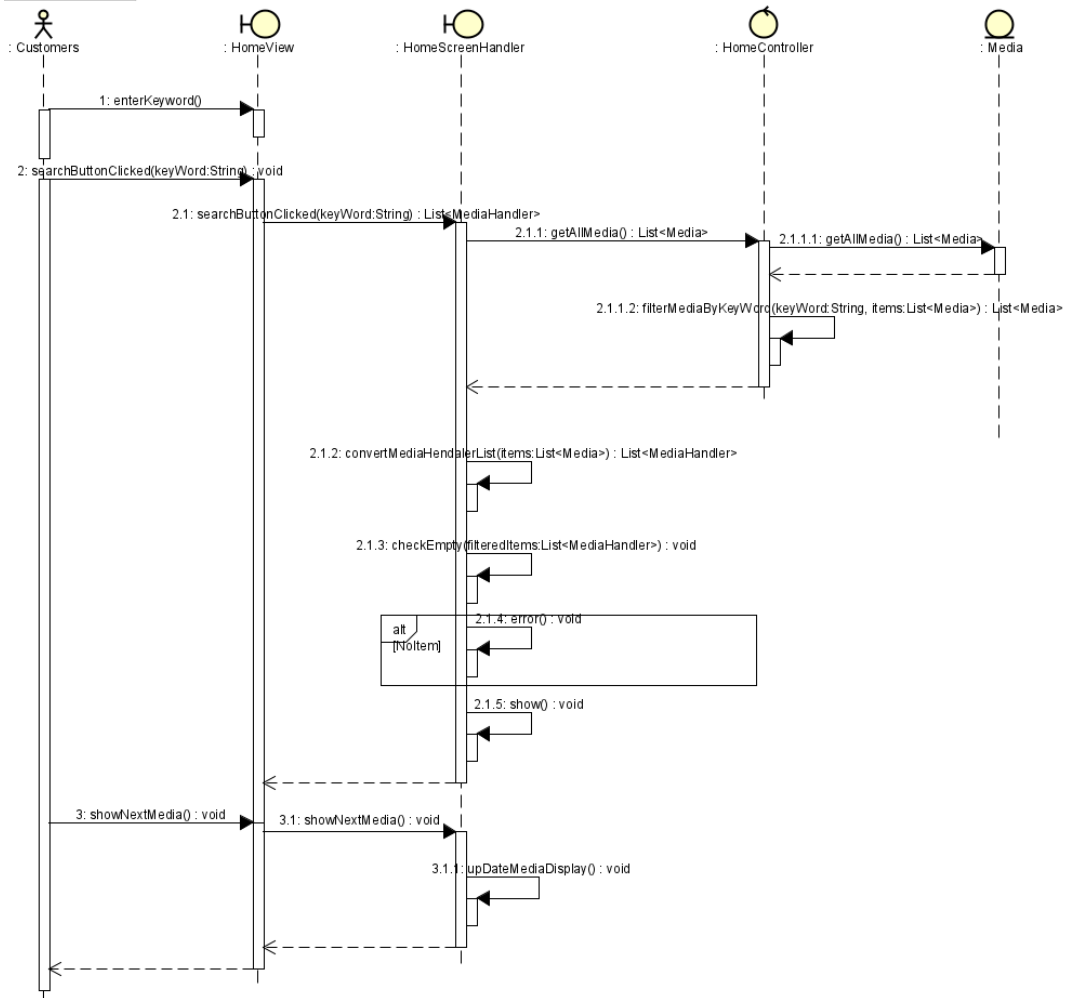


3.1.2. Analysis Class Diagram for UC “Refund”

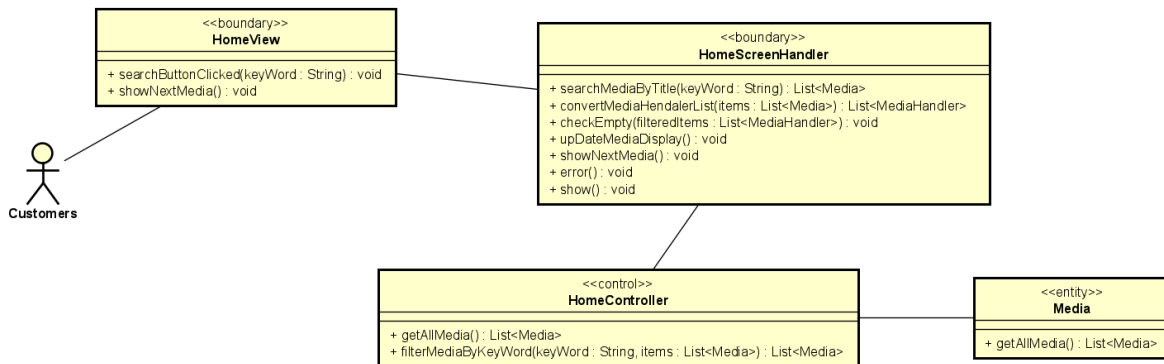


3.2. Use Case “Search Products”

3.2.1. Sequence Diagram for UC “Search Products”

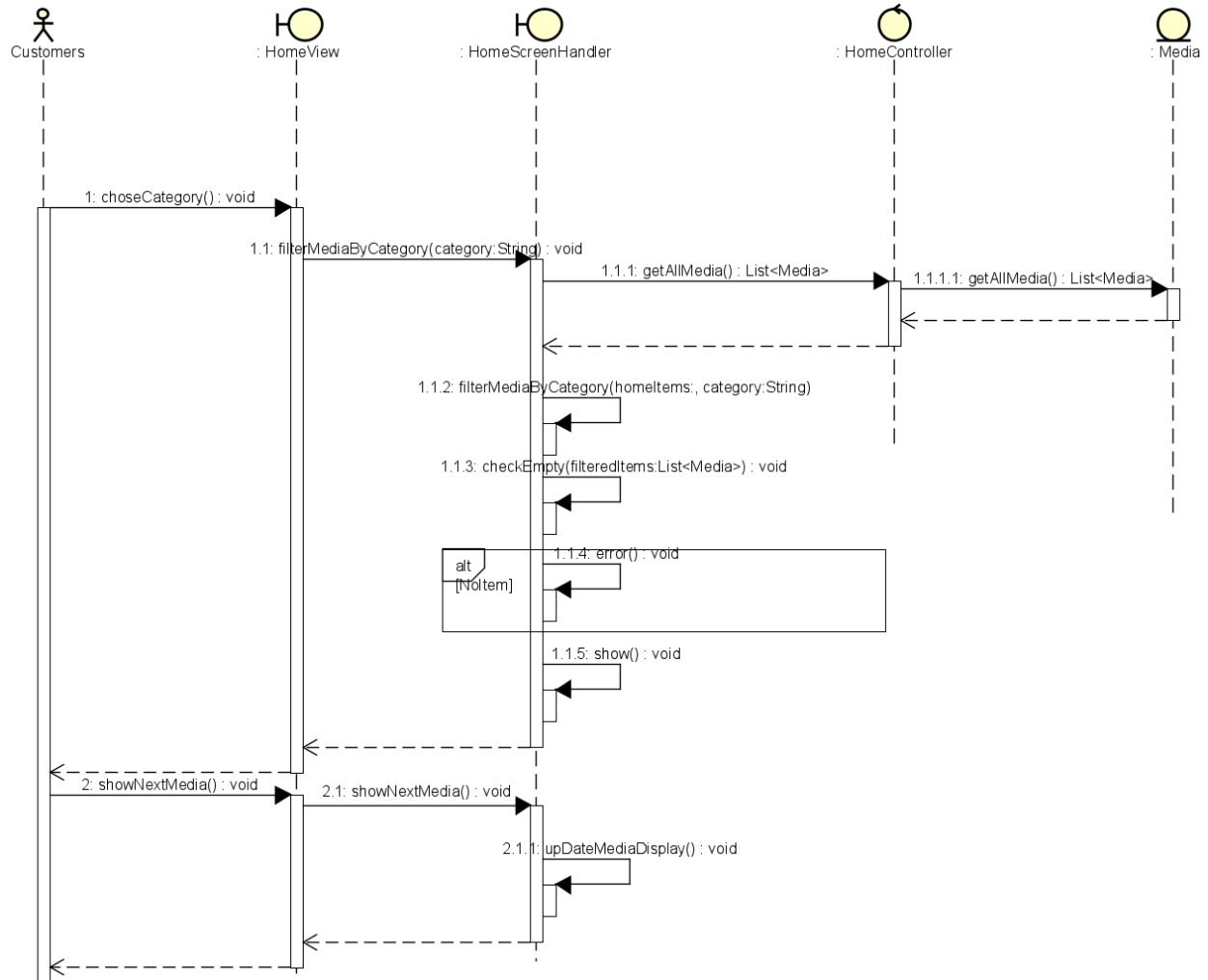


3.2.2. Analysis Class Diagram for UC "Search Products"

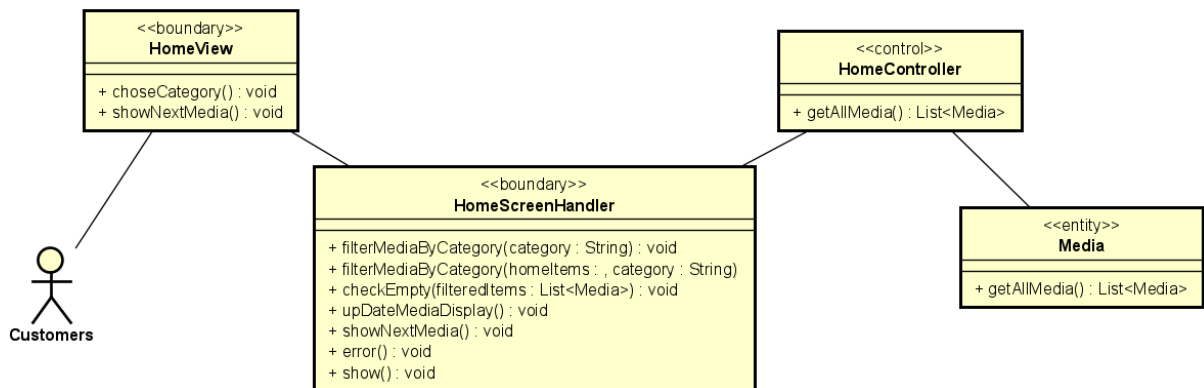


3.3. Use Case “Filter Products”

3.3.1. Sequence Diagram for UC “Filter Products”

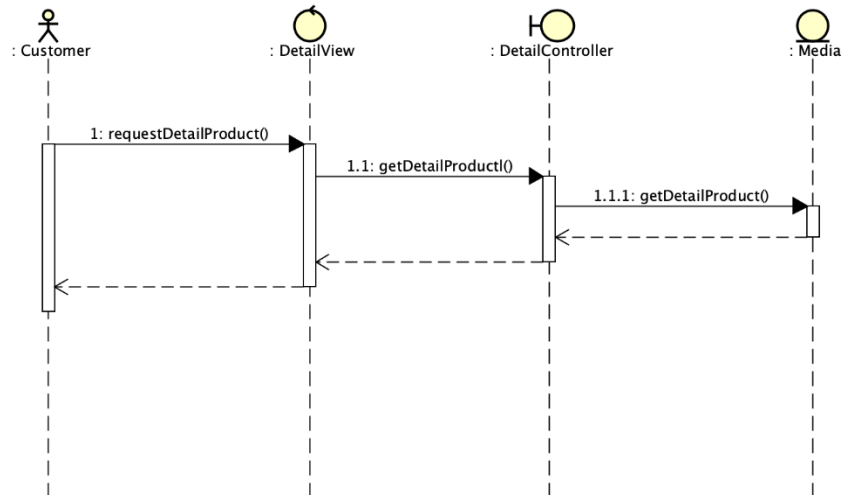


3.3.2. Analysis Class Diagram for UC "Filter Products"

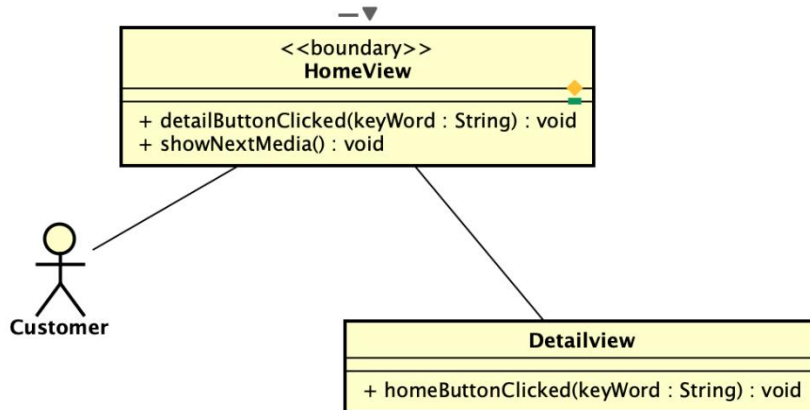


3.4. Use Case “Detail Products”

3.4.1. Sequence Diagram for UC “Detail Products”



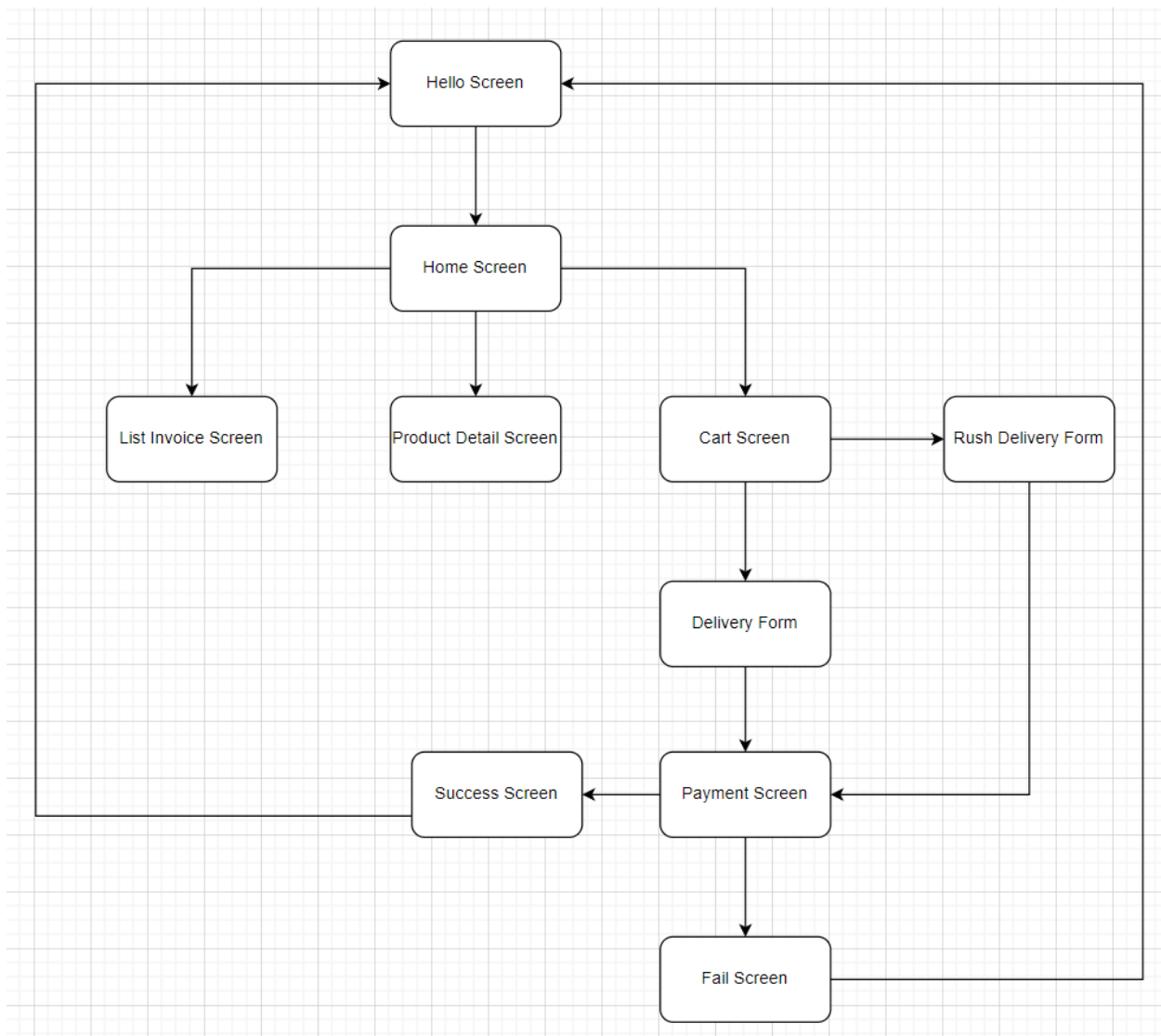
3.4.2. Analysis Class Diagram for UC "Detail Products"



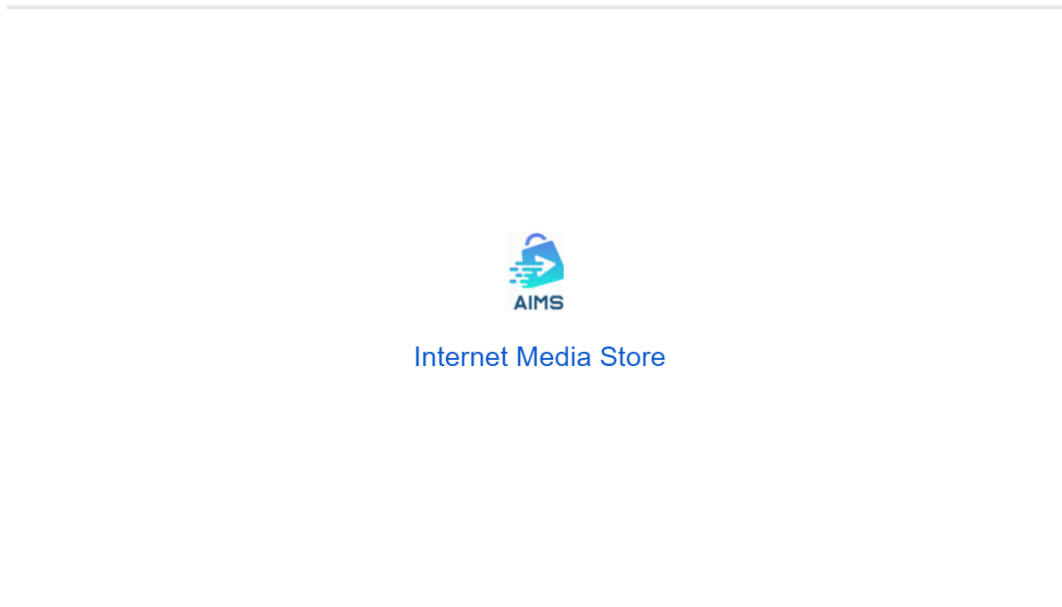
4. Interface Design

4.1. User Interface Design

Screen transition flow



Hello Page

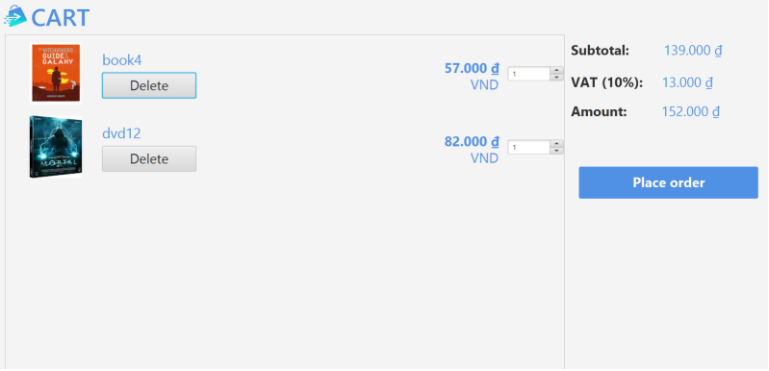


Home Page

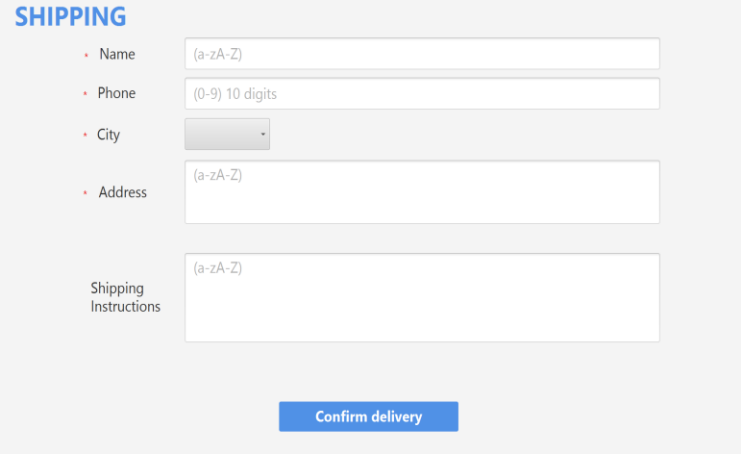
| | | | | |
|----------------------|--|----------------------------|-------------------------------------|--|
| AIMS Software | | Date of creation | Person in charge | |
| Screen specification | | Home page screen | 27/10/2023 Nguyễn Ngọc Quỳnh Anh | |
| | | Control | Operator | Function |
| | | Search Input Area | Type | Input Search Keyword |
| | | Search Button | Click | Search Media with input in search area |
| | | Cart Button | Click | Display Cart Page |
| | | Area for displaying Banner | Initial | Display Banner |
| | | Area for displaying Media | Initial | Display Media |
| | | Next Button | Click | Display next page |
| | | Pre Button | Click | Display previous page |

Cart Page

| | | |
|---------------|------------------|------------------|
| AIMS Software | Date of creation | Person in charge |
|---------------|------------------|------------------|

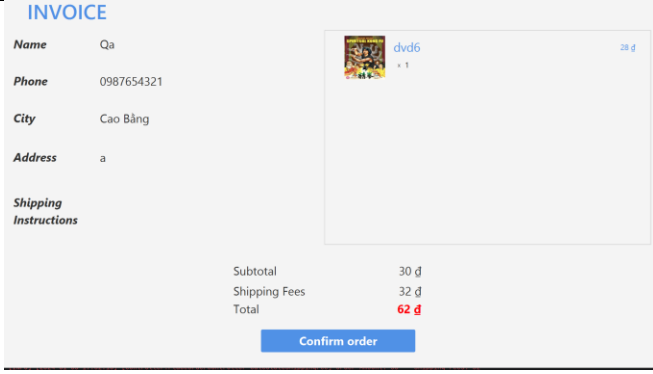
| | | | | |
|---|---------------------------|------------|--------------------------|--|
| Screen specification | Home page screen | 27/10/2023 | Nguyễn Ngọc Quỳnh Anh | |
|  | Control | Operator | Function | |
| | Area for displaying Price | Initial | Display price | |
| | Area for displaying Media | Initial | Display Media | |
| | Place order Button | Click | Display Delivery Form | |
| | Delete Button | Click | Remove product from cart | |

Delivery Information Form Page

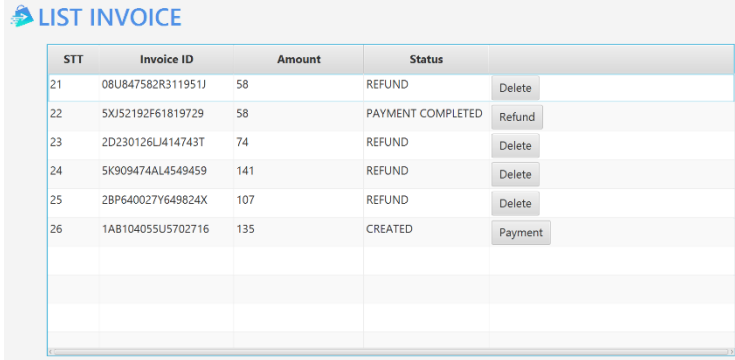
| | | | | |
|---|------------------------|------------------|--|--|
| AIMS Software | | Date of creation | Person in charge | |
| Screen specification | Home page screen | 27/10/2023 | Nguyễn Ngọc Quỳnh Anh | |
|  | Control | Operator | Function | |
| | Name Input area | Type | Set name reciever | |
| | Phone input area | Type | Set phone reciever | |
| | Province Input area | Choose | Set province reciever | |
| | Address Input area | Type | Set address reciever | |
| | Instruction Input area | Type | Set instruction reciever | |
| | Submit button | Click | Send form and display Rush Order Form Page or Invoice Page | |

Invoice Page

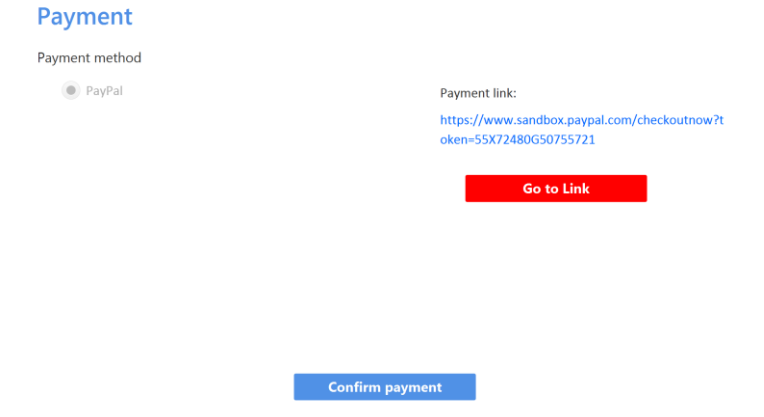
| | | |
|---------------|------------------|------------------|
| AIMS Software | Date of creation | Person in charge |
|---------------|------------------|------------------|

| | | | | |
|---|------------------|--|-----------------------|------------------------------|
| Screen specification | Home page screen | 27/10/2023 | Nguyễn Ngọc Quỳnh Anh | |
|  | | Control | Operator | Function |
| | | Area for displaying Price | Initial | Display price |
| | | Area for displaying Delivery Information | Initial | Display Delivery Information |
| | | Area for displaying Media | Initial | Display Media |
| | | Confirm order Button | Click | Display Payment Page |

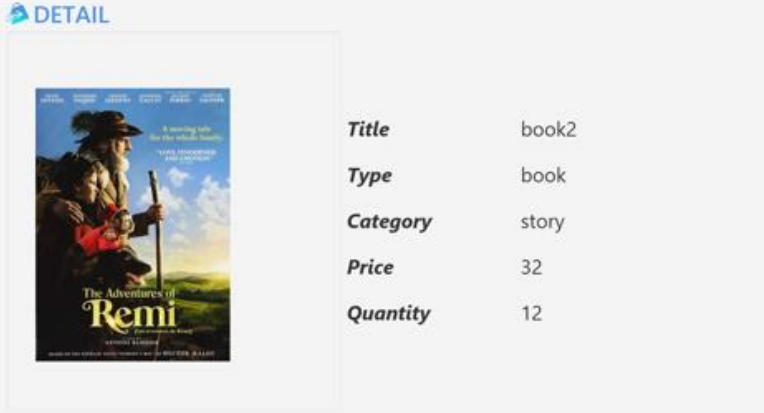
List Invoice Page

| | | | | |
|--|------------------|------------------|------------------|---------------|
| AIMS Software | | Date of creation | Person in charge | |
| Screen specification | Home page screen | 29/11/2023 | Trần Xuân Bách | |
|  | | Control | Operator | Function |
| | | Delete Button | Click | DeleteInvoice |
| | | Refund Button | Click | RefundOrder |
| | | Payment Buton | Click | PayOrder |
| | | | | |

Pay Order Page

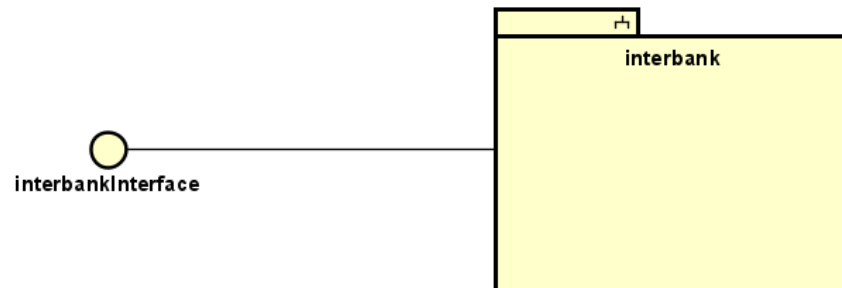
| | | | | |
|---|-----------------------|-----------------------|------------------|---|
| AIMS Software | | Date of creation | Person in charge | |
| Screen specification | Pay Order page screen | 29/11/2023 | Trần Xuân Bách | |
|  | | Control | Operator | Function |
| | | Payment Link | Initial | Display paypal sanbox link to pay order |
| | | Go to link button | Click | Go to link to pay order by Paypal |
| | | Confirm Payment Buton | Click | Confirm payment |

Detail Product Page

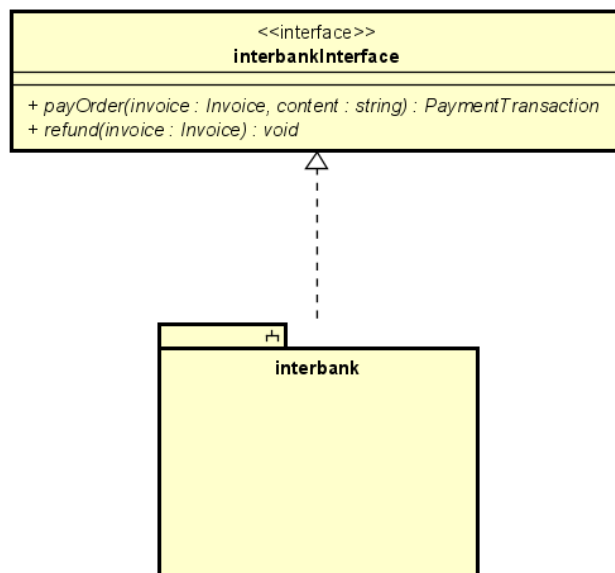
| | | | | |
|---|----------------------------|------------------|--------------------|----------|
| AIMS Software | | Date of creation | Person in charge | |
| Screen specification | Detail product page screen | 29/11/2023 | Nguyễn Vũ Thục Anh | |
|  | | Control | Operator | Function |
| | | | | |
| | | | | |

4.2. System Interface Design

3.2.1. Identify subsystems

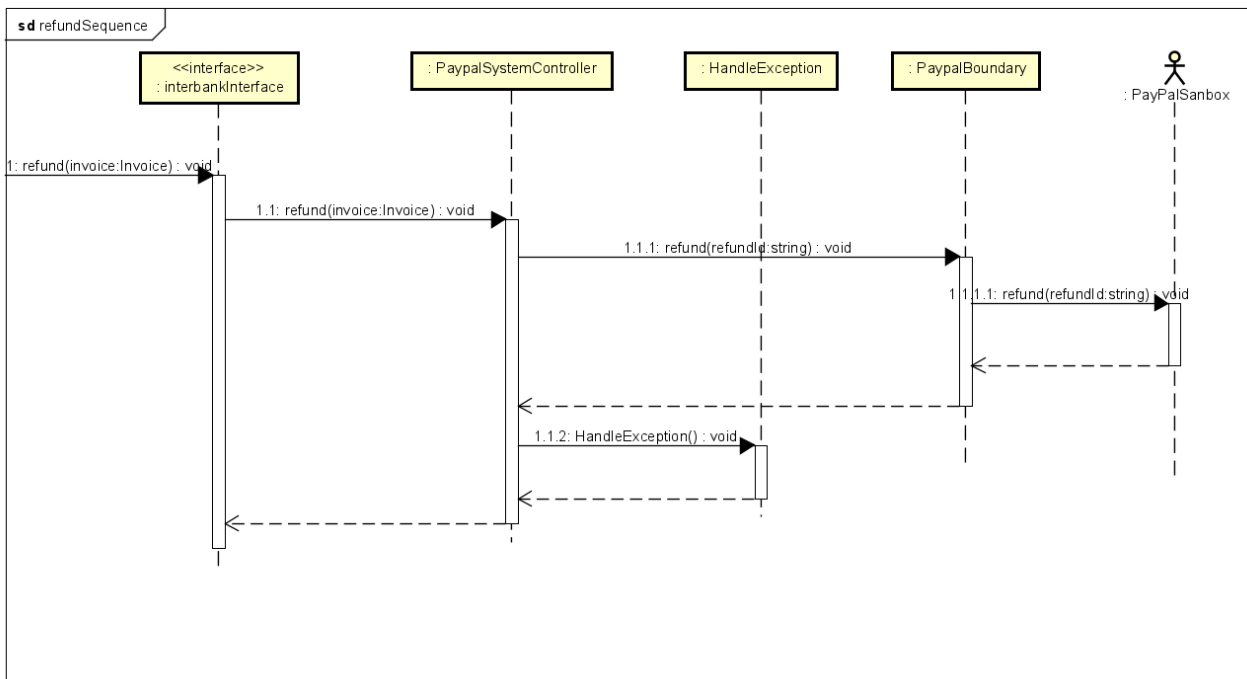
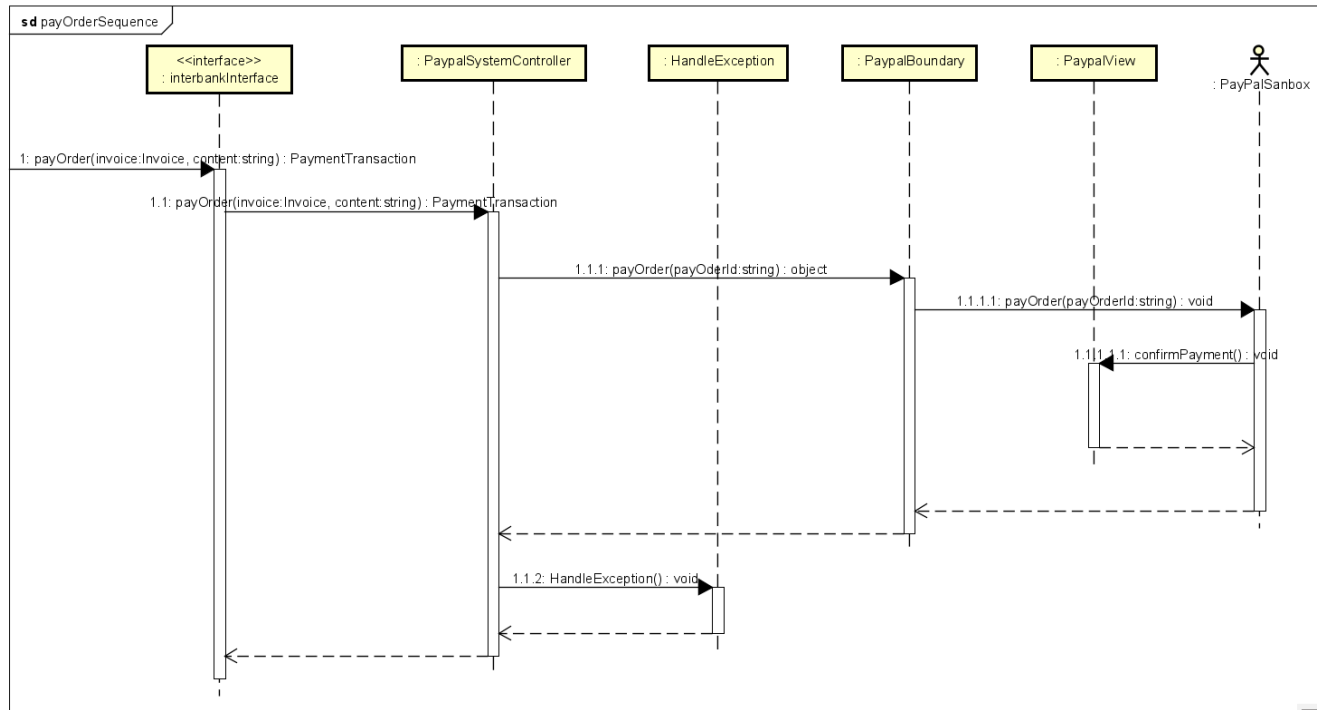


3.2.2. Identify subsystem interface

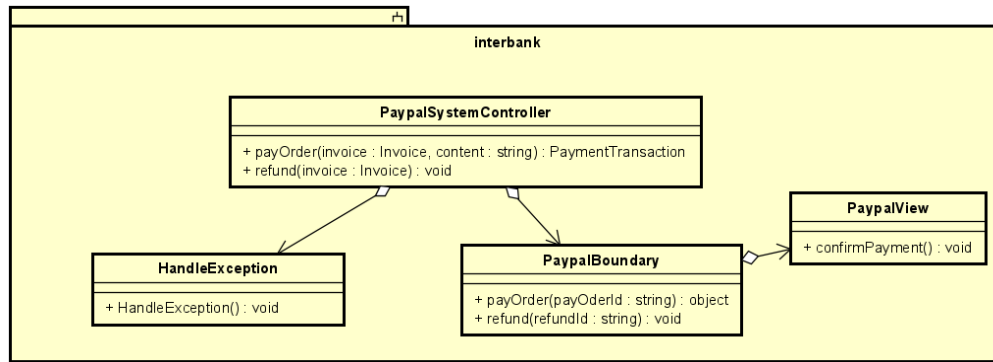


3.2.3. Subsystem design

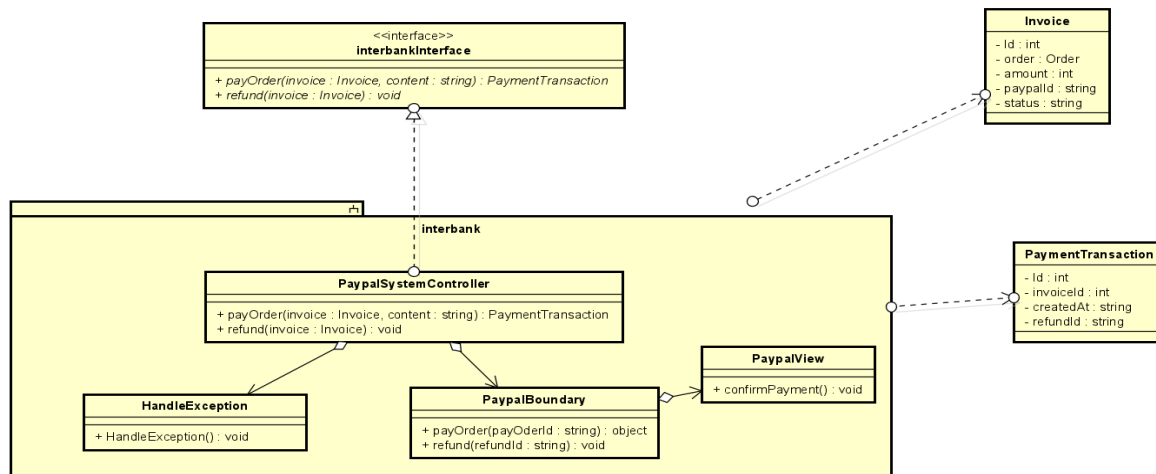
Distribute subsystem behavior to subsystem elements



Document subsystem elements

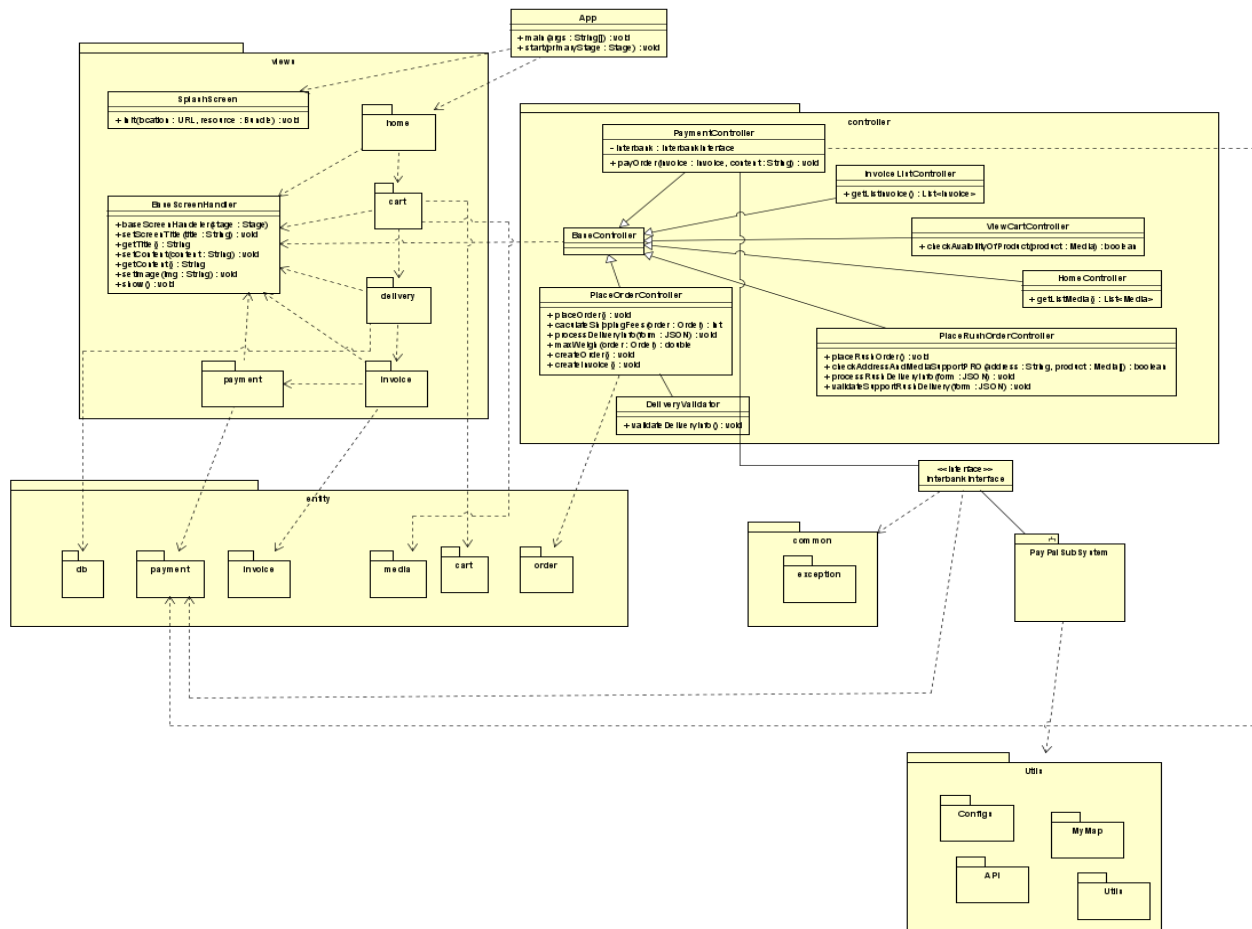


Checkpoints

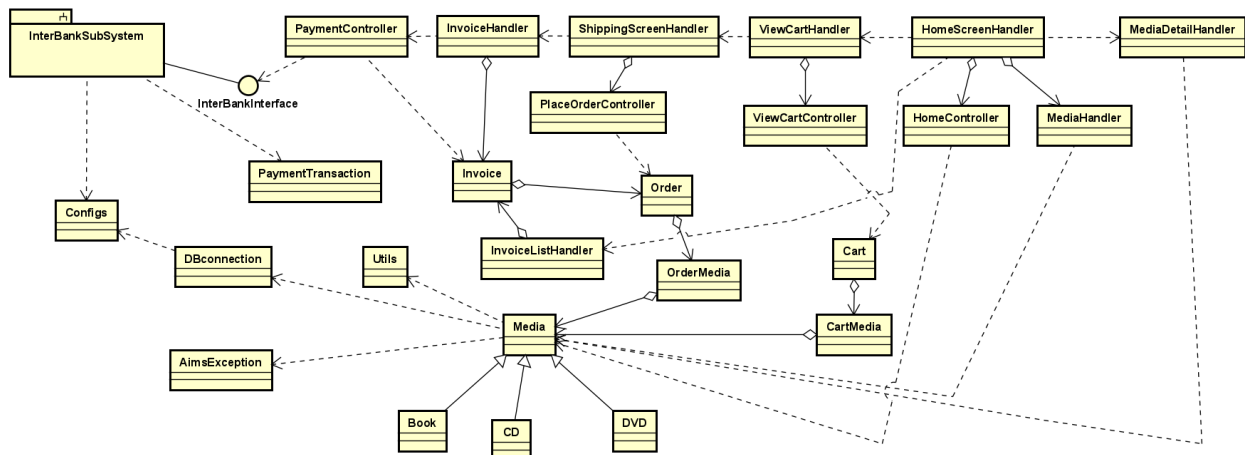


5. Class Design

5.1. General Class Diagram



5.2. Relationship Class Diagram



5.3. Class Design

5.3.1. HomeScreenHandler

| HomeScreenHandler |
|--|
| - homeItem : List - displayItems : List - curentPage : int - itemsPerPage : int |
| + checkEmpty(filteredItems : List<MediaHandler>) : void + upDateMediaDisplay() : void + showNextMedia() : void + show() : void + showPreviousMedia() : void + addMediaHome() : void + addMenuItem() : void + error() : void + searchButtonClicked(keyWord : String) : List<MediaHandler> + convertMediaHendalerList(items : List<Media>) : List<MediaHandler> |

Attribute

| # | Name | Data type | Default value | Description |
|---|----------------|-----------|---------------|--|
| 1 | homeItems | List | NULL | Holds the media items fetched from the controller. |
| 2 | displayedItems | List | NULL | Holds the currently displayed media items |
| 3 | curentPage | int | 0 | Tracks the current page number |
| 3 | itemsPerPage | int | 12 | Represents the number of items to display per page |

Operation

| # | Name | Return type | Description (purpose) |
|---|-------------------------|--------------------|---|
| 1 | convertMediaHandlerList | List<MediaHandler> | Convert List<Media> to List<MediaHanlder> |
| 2 | checkEmpty | Void | Checks if the filtered media items list is empty and handles displaying a message accordingly |
| 3 | updateMediaDisplay | Void | Update and manage the display of media items on the home screen based on the current page |

| | | | |
|---|-------------------|------|---|
| 4 | showNextMedia | Void | Displays the next set of media items on the screen based on pagination |
| 5 | showPreviousMedia | Void | Displays the previous set of media items on the screen based on pagination |
| 6 | addMediaHome | Void | Populates the home screen with media items passed as a list. |
| 7 | addMenuItems | Void | Adds menu items based on specified text and position to the given menu button |

5.3.2. MediaDetailHandler

| DetailScreenHandle |
|---|
| <ul style="list-style-type: none"> - title : String - type : String - category : String - price : int - quantity : int |
| + requestToDetail() : void |

Attribute

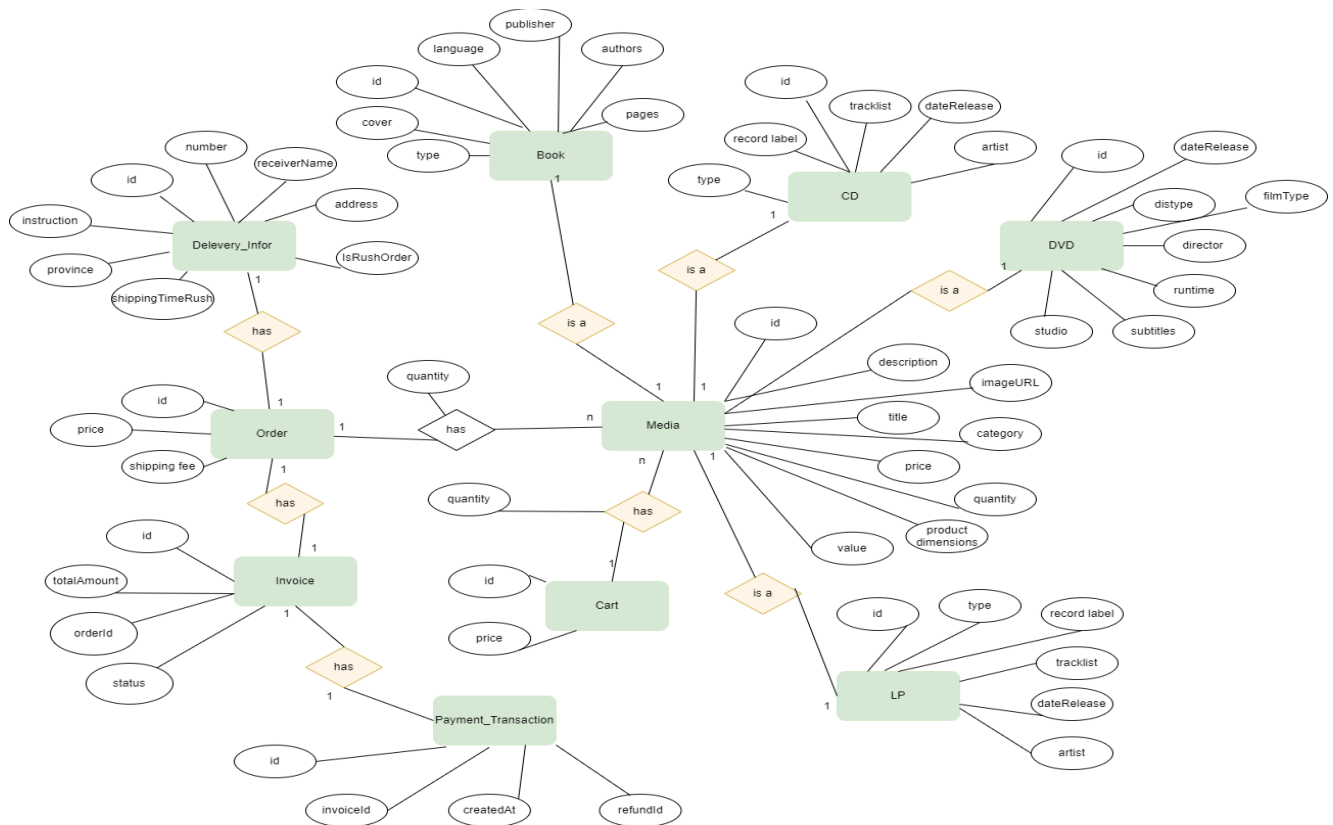
| # | Name | Data type | Default value | Description |
|---|----------|-----------|---------------|-----------------------------|
| 1 | title | String | NULL | Title of media |
| 2 | type | String | NULL | Type of media |
| 3 | category | String | NULL | Category of media |
| 4 | price | int | 0 | Price of media |
| 5 | quantity | int | 0 | Remaining quantity of media |

Operation

| # | Name | Return type | Description (purpose) |
|---|-----------------|-------------|-------------------------|
| 1 | requestToDetail | void | Request to detail media |

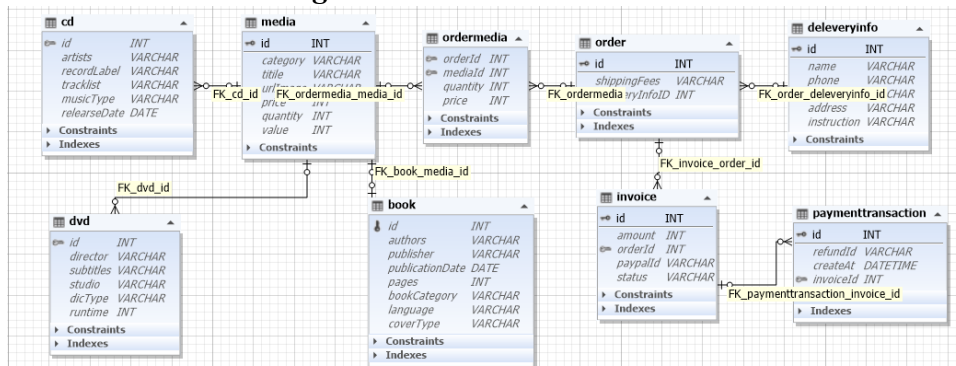
6. Data Modeling

6.1. Conceptual Data Model AIMS System ERD



6.2. Database Design

5.2.1. Logical Data Model



5.2.2. Physical Data Model

- Media

| # | PK | FK | Column Name | Data type | Mandatory | Description |
|-----|----|----|-------------------|-------------|-----------|---|
| 1. | x | | id | int | yes | ID, auto increment |
| 2. | | | title | Varchar(45) | yes | Product's name |
| 3. | | | category | Varchar(45) | yes | Media type, eg., cd, DVD |
| 4. | | | value | int | yes | Value of the product |
| 5. | | | price | int | yes | Current price |
| 6. | | | quantity | int | yes | Number of products |
| 7. | | | productDimensions | Varchar(45) | yes | horizontal, length, width dimensions |
| 8. | | | description | Varchar(45) | yes | Product description |
| 9. | | | imageUrl | Varchar(45) | yes | Product image path |
| 10. | | | createAt | timestamp | yes | The time the product is added to the system |
| 11. | | | updateAt | timestamp | no | The time the product is updated to the system |

- CD

| # | PK | FK | Column Name | Data type | Mandatory | Description |
|----|----|----|-------------|-------------|-----------|---|
| 1. | | x | id | int | yes | ID, same as ID of Media of twich type is CD |
| 2. | | | type | Varchar(45) | yes | Music genres |
| 3. | | | artist | Varchar(45) | yes | Artist's name |
| 4. | | | dateRelease | datetime | No | Release date |
| 5. | | | recordLabel | Varchar(45) | yes | Record label |

- LD

| # | PK | FK | Column Name | Data type | Mandatory | Description |
|----|----|----|-------------|-------------|-----------|---|
| 1. | | x | id | int | yes | ID, same as ID of Media of twich type is CD |
| 2. | | | type | Varchar(45) | yes | Music genres |
| 3. | | | artist | Varchar(45) | yes | Artist's name |
| 4. | | | dateRelease | datetime | No | Release date |
| 5. | | | recordLabel | Varchar(45) | yes | Record label |

- **Book**

| # | PK | FK | Column Name | Data type | Mandatory | Description |
|----|----|----|-------------|-------------|-----------|---|
| 1. | | x | id | int | yes | ID, same as ID of Media of which type is Book |
| 2. | | | authors | Varchar(45) | yes | Authors of the book |
| 3. | | | publisher | Varchar(45) | yes | Publishing house |
| 4. | | | language | Varchar(45) | yes | Language |
| 5. | | | type | Varchar(45) | yes | Cover type |
| 6. | | | cover | Varchar(45) | yes | Book cover |
| 7. | | | page | int | yes | Page number |
| 8. | | | publishDate | datetime | yes | Date of publishing |

- **dvd**

| # | PK | FK | Column Name | Data type | Mandatory | Description |
|----|----|----|-------------|-------------|-----------|--|
| 1. | | x | id | int | yes | ID, same as ID of Media of which type is DVD |
| 2. | | | discType | VARCHAR(45) | yes | Disc type |
| 3. | | | director | VARCHAR(45) | Yes | Director |
| 4. | | | runtime | int | Yes | Duration |
| 5. | | | subtitles | VARCHAR(45) | Yes | Subtitles |
| 6. | | | studio | VARCHAR(45) | yes | Manufacturer |
| 7. | | | releaseDate | Datetime | Yes | Release date |
| 8. | | | filmType | VARCHAR(45) | yes | Genres |

- **deliveryinfo**

| # | PK | FK | Column Name | Data type | Mandatory | Description |
|----|----|----|--------------|--------------|-----------|-----------------------|
| 1. | x | | id | int | yes | ID, auto increment |
| 2. | | | receiverName | Varchar(45) | yes | Receiver name |
| 3. | | | number | Varchar(10) | yes | Receiver phone number |
| 4. | | | province | Varchar(45) | yes | Provinces |
| 5. | | | address | Varchar(45) | yes | Delivery address |
| 6. | | | instruction | Varchar(100) | yes | Delivery instructions |
| 7. | | | isRushOrder | tinyint(1) | yes | Is Place Rush Order |

| | | | | | | |
|-----|--|--|------------------|-----------|-----|----------------------|
| 8. | | | shippingTimeRush | datetime | no | Delivery Time for RO |
| 9. | | | createAt | timestamp | yes | |
| 10. | | | updateAt | timestamp | yes | |

- **order**

| # | PK | FK | Column Name | Data type | Mandatory | Description |
|----|----|----|-------------|-----------|-----------|---------------------|
| 1. | x | | id | int | yes | Id, auto increment |
| 2. | | | shippingFee | int | yes | Shipping Fee |
| 3. | | | price | int | yes | Selling price |
| 4. | | | totalPrice | int | yes | Selling price + VAT |
| 5. | | x | deliveryId | int | yes | Delivery Info ID |
| 6. | | | createAt | timestamp | | |
| 7. | | | updateAt | timestamp | | |

- **order_media**

| # | PK | FK | Column Name | Data type | Mandatory | Description |
|----|----|----|-------------|-----------|-----------|---------------|
| 1. | | x | orderId | int | yes | Order ID |
| 2. | | x | mediaId | int | yes | Media ID |
| 3. | | | quantity | int | yes | Number |
| 4. | | | price | int | yes | Selling price |

- **invoice**

| # | PK | FK | Column Name | Data type | Mandatory | Description |
|----|----|----|-------------|-------------|-----------|--------------|
| 1. | x | | id | int | yes | ID |
| 2. | | | amount | int | yes | Total |
| 3. | | x | orderId | int | yes | Order ID |
| 4. | | | staus | Varchar(45) | yes | Order status |

- **paymenttransaction**

| # | PK | FK | Column Name | Data type | Mandatory | Description |
|----|----|----|-------------|-----------|-----------|------------------|
| 5. | x | | id | int | yes | ID |
| 6. | | | createAt | timestamp | yes | Date of creation |

| | | | | | | |
|----|--|---|-----------|-------------|-----|----------------------|
| 7. | | | refundId | Varchar(45) | yes | Transaction contents |
| 8. | | x | invoiceId | int | yes | Invoice ID |

SQL:

```

BEGIN TRANSACTION;
CREATE TABLE IF NOT EXISTS "Media" (
  "id"    INTEGER NOT NULL,
  "type"  VARCHAR(45) NOT NULL,
  "category"    VARCHAR(45) NOT NULL,
  "price"  INTEGER NOT NULL,
  "quantity"    INTEGER NOT NULL,
  "title"   VARCHAR(45) NOT NULL,
  "value"  INTEGER NOT NULL,
  "imageUrl"   VARCHAR(45) NOT NULL,
  PRIMARY KEY("id" AUTOINCREMENT)
);
CREATE TABLE IF NOT EXISTS "CD" (
  "id"    INTEGER NOT NULL,
  "artist" VARCHAR(45) NOT NULL,
  "recordLabel"  VARCHAR(45) NOT NULL,
  "musicType"   VARCHAR(45) NOT NULL,
  "releasedDate" DATE,
  CONSTRAINT "fk_cd_media" FOREIGN KEY("id") REFERENCES "Media"("id"),
  PRIMARY KEY("id")
);
CREATE TABLE IF NOT EXISTS "Book" (
  "id"    INTEGER NOT NULL,
  "author"    VARCHAR(45) NOT NULL,
  "coverType" VARCHAR(45) NOT NULL,
  "publisher" VARCHAR(45) NOT NULL,
  "publishDate" DATETIME NOT NULL,
  "numOfPages" INTEGER NOT NULL,
  "language"   VARCHAR(45) NOT NULL,
  "bookCategory" VARCHAR(45) NOT NULL,
  CONSTRAINT "fk_book_media" FOREIGN KEY("id") REFERENCES "Media"("id"),
  PRIMARY KEY("id" AUTOINCREMENT)
);
CREATE TABLE IF NOT EXISTS "DVD" (
  "id"    INTEGER NOT NULL,
  "discType"    VARCHAR(45) NOT NULL,
  "director"    VARCHAR(45) NOT NULL,
  "runtime"     INTEGER NOT NULL,
  "studio"      VARCHAR(45) NOT NULL,
  "subtitle"    VARCHAR(45) NOT NULL,
  "releasedDate" DATETIME,
  "filmType"    VARCHAR(45) NOT NULL,
  CONSTRAINT "fk_dvd_media" FOREIGN KEY("id") REFERENCES "Media"("id"),

```

```

PRIMARY KEY("id")
);
CREATE TABLE IF NOT EXISTS "OrderMedia" (
"mediaID"      INTEGER NOT NULL,
"orderId"      INTEGER NOT NULL,
"price"        INTEGER NOT NULL,
"quantity"     INTEGER NOT NULL,
CONSTRAINT "fk_ordermedia_media" FOREIGN KEY("mediaID") REFERENCES "Media"("id"),
CONSTRAINT "fk_ordermedia_order" FOREIGN KEY("orderId") REFERENCES "Order"("id"),
PRIMARY KEY("mediaID", "orderId")
);
CREATE TABLE IF NOT EXISTS "Order" (
"id"          INTEGER NOT NULL,
"name"        VARCHAR(45) NOT NULL,
"address"     VARCHAR(45) NOT NULL,
"phone"       VARCHAR(45) NOT NULL,
"shipping_fee" INTEGER NOT NULL,
PRIMARY KEY("id" AUTOINCREMENT)
);
CREATE TABLE IF NOT EXISTS "Transaction" (
"id"          INTEGER NOT NULL,
"invoiceId"   INTEGER NOT NULL,
"createAt"    DATETIME NOT NULL,
"refundId"    VARCHAR(45) NOT NULL,
CONSTRAINT "fk_transaction_invoice" FOREIGN KEY("orderId") REFERENCES "Invoice"("id"),
PRIMARY KEY("id" AUTOINCREMENT)
);
CREATE TABLE IF NOT EXISTS "Invoice" (
"id"          INTEGER NOT NULL,
"orderId"     INTEGER,
"amount"      INTEGER,
"paypalId"    VARCHAR(50),
"status"      VARCHAR(50),
CONSTRAINT "fk_invoice_order" FOREIGN KEY("orderId") REFERENCES "Order"("id"),
PRIMARY KEY("id" AUTOINCREMENT)
);
COMMIT;

```