HANOI UNIVERSITY OF SCIENCE AND TECHNOLOGY

School of Information and Communications Technology

Software Design Document

Version 1.1

AIMS: An Internet Media Store

Software Design and Construction

Group 02

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*Hanoi,* *1/2024*

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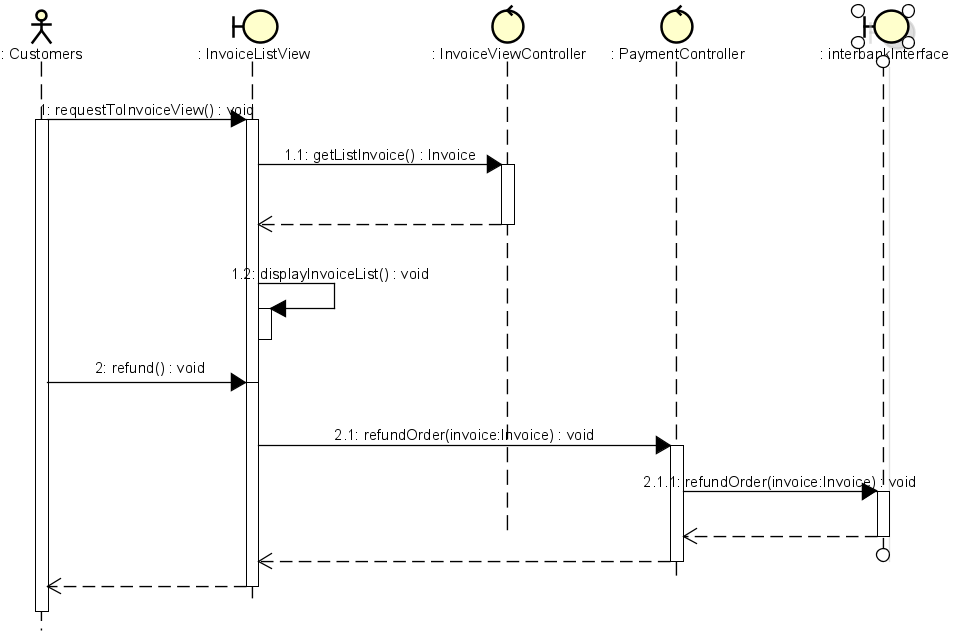
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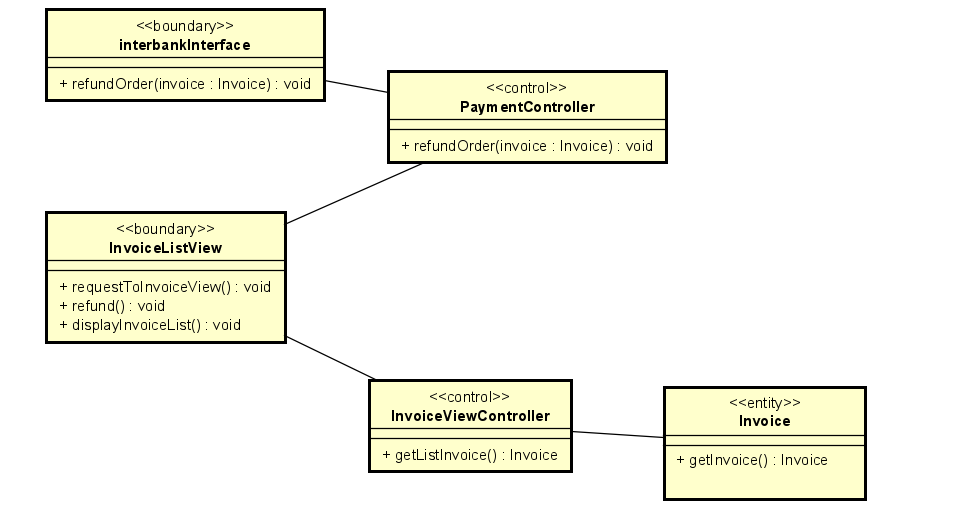
# Use Case Analysis

## Use Case “Refund”

### ***Sequence Diagram for UC “Refund”***



### ***Analysis Class Diagram for UC “Refund”***



## Use Case “Search Products”

### ***Sequence Diagram for UC “Search Products”***

A diagram of a project

Description automatically generated

### ***Analysis Class Diagram for UC "Search Products”***

A diagram of a computer

Description automatically generated

## Use Case “Filter Products”

### ***Sequence Diagram for UC “Filter Products”***

A diagram of a project

Description automatically generated

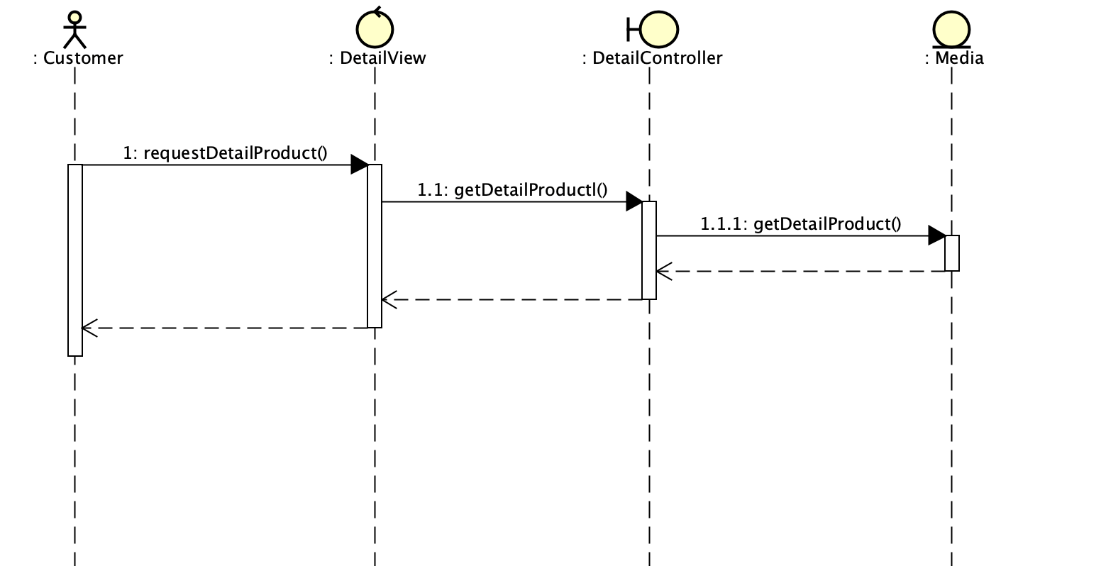
### ***Analysis Class Diagram for UC "Filter Products”***

A yellow box with black text

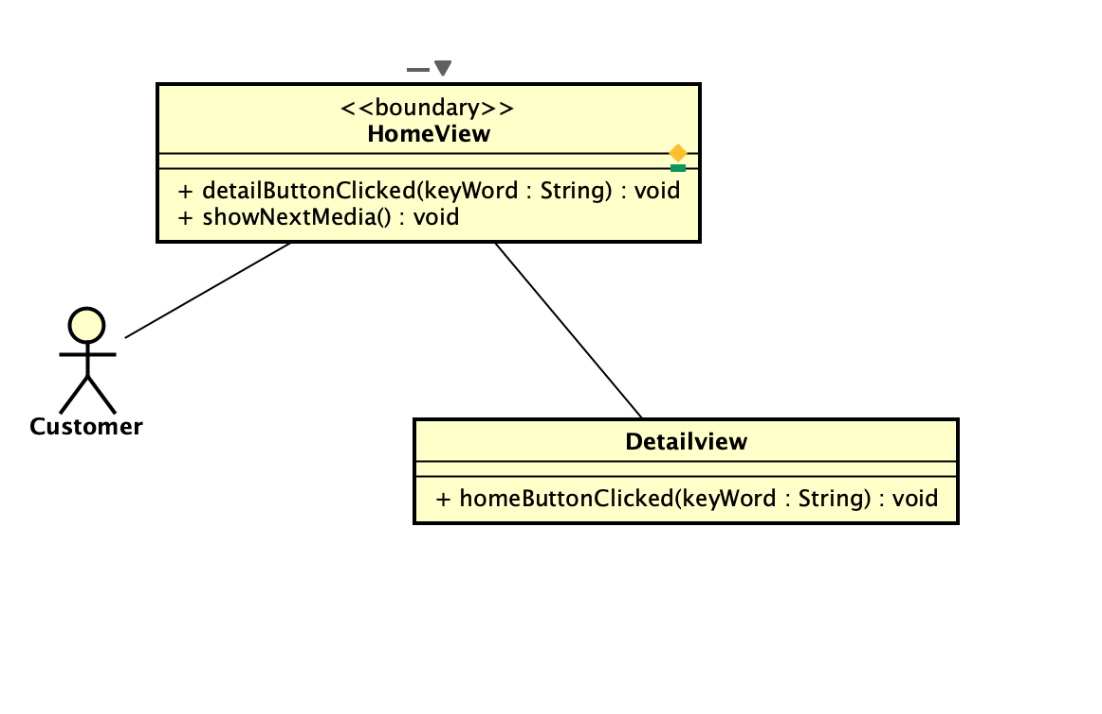
Description automatically generated

## Use Case “Detail Products”

### ***Sequence Diagram for UC “Detail Products”***



### ***Analysis Class Diagram for UC "Detail Products”***



# Class Design

## General Class Diagram

A diagram of a computer program

Description automatically generated with medium confidence

## Relationship Class Diagram

A diagram of a network

Description automatically generated

## Class Design

### HomeScreenHandler

A screenshot of a computer program

Description automatically generated

**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 |
|  | curentPage | int | 0 | Tracks the current page number |
|  | itemsPerPage | int | 12 | Represents the number of items to display per page |

**Operation**

|  |  |  |  |
| --- | --- | --- | --- |
| # | Name | Return type | Description (purpose) |
| 1 | filterMediaByKeyWord | List<MediaHandler> | Filters media items based on a given keyword. |
| 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 |