

**ĐẠI HỌC BÁCH KHOA HÀ NỘI**

**TRƯỜNG CÔNG NGHỆ THÔNG TIN VÀ TRUYỀN THÔNG**

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BÁO CÁO THỰC HÀNH

IT3103-744527-2024.1

**BÀI THỰC HÀNH – LAB05**

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BÁO CÁO THỰC HÀNH LAB 5 LẬP TRÌNH HƯỚNG ĐỐI TƯỢNG

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# Swing components

## AWTAccumulator

## A screen shot of a computer program Description automatically generated

Figure 1.1: Source code of AWTAccumulator

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

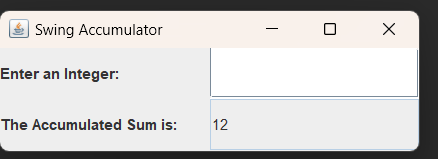
## Swing Accumulator

Figure 1.2: Demo of AWTAccumulator

A screen shot of a computer program

Description automatically generated

Figure 1.3: Source code of SwingAccumulator



A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

Figure 1.4: Demo of SwingAccumulator

# Organizing Swing components with Layout Managers

## Code

## A screenshot of a computer program Description automatically generated

Figure 2.1: Source code of NumberGrid 1

A screenshot of a computer program

Description automatically generated

Figure 2.2: Source code of NumberGrid 2

## Demo

A screenshot of a computer

Description automatically generated

A screenshot of a number grid

Description automatically generatedFigure 2.3: Demo buttons 0-9

Figure 2.4: Demo DEL button

*A screenshot of a number grid

Description automatically generated*

Figure 2.5: Demo C button

# Create a graphical user interface for AIMS with Swing

## Create class StoreScreen

Figure 3.1: Class StoreScreen 1

A screenshot of a computer program

Description automatically generated

Figure 3.2: Class StoreScreen 2

A screen shot of a computer program

Description automatically generated

Figure 3.3: Class StoreScreen 3

A screenshot of a computer screen

Description automatically generated

Figure 3.4: Class StoreScreen 4

A screenshot of a computer program

Description automatically generated

Figure 3.5: Class StoreScreen 5

A screenshot of a computer program

Description automatically generated

Figure 3.6: Class StoreScreen 6

A screenshot of a computer program

Description automatically generatedA screenshot of a computer program

Description automatically generated

Figure 3.7: Class StoreScreen 7 và 8

## A screen shot of a computer program Description automatically generatedCreate class MediaStore

Figure 3.7: Class MediaStore 1

*A screen shot of a computer program

Description automatically generated*

Figure 3.8: Class MediaStore 2

## Demo

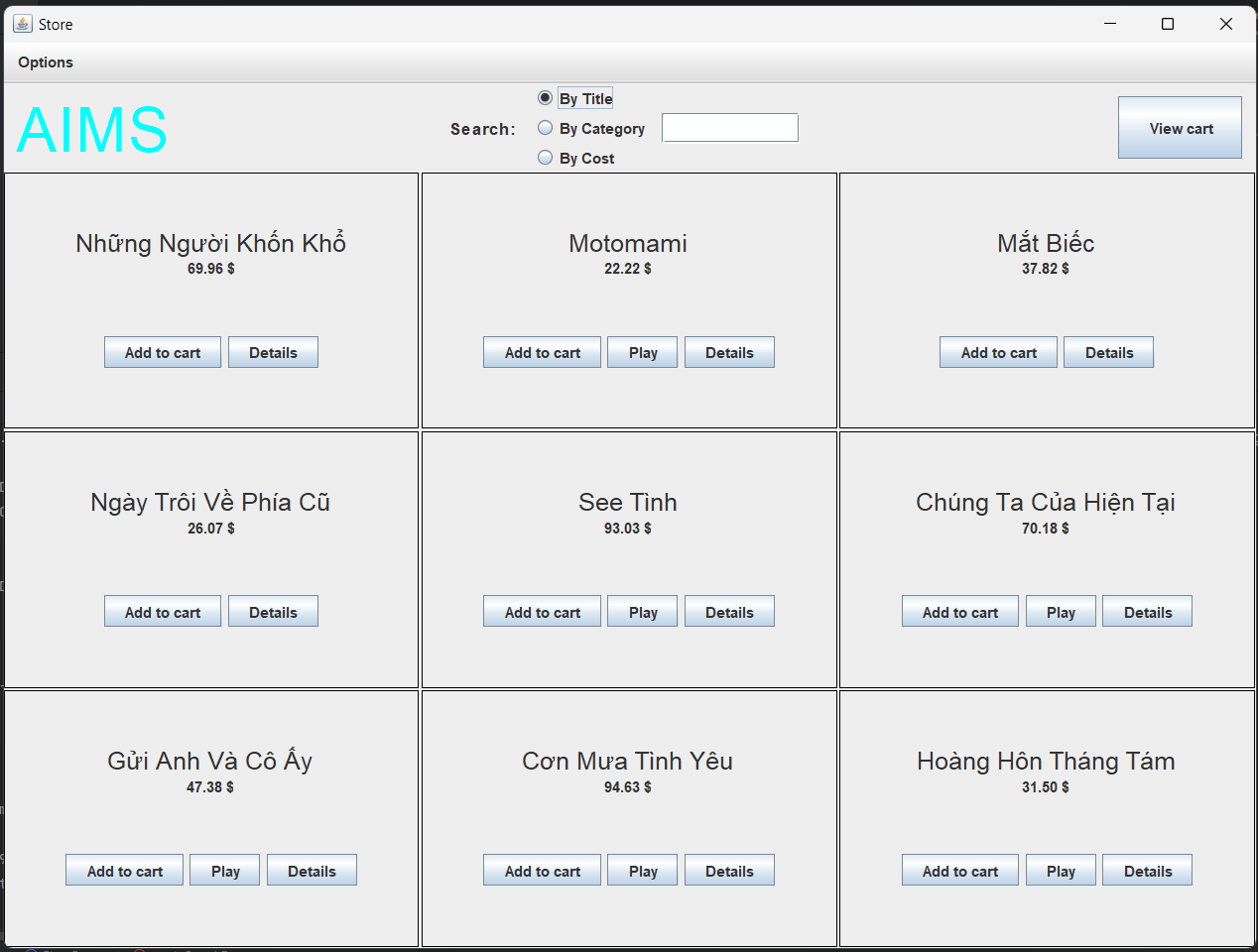


Figure 3.10: StoreScreen

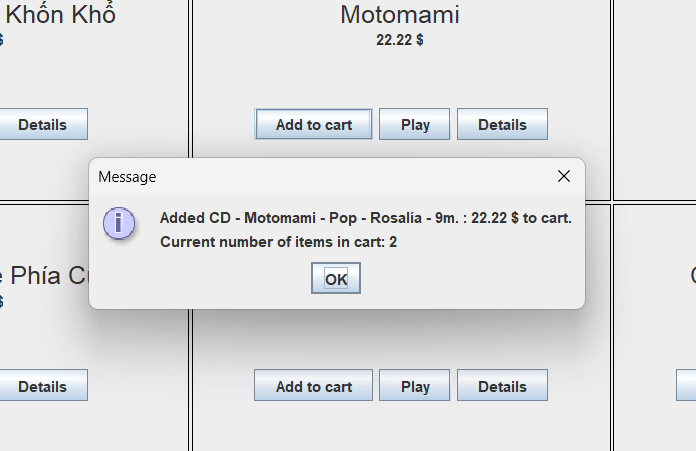


Figure 3.11 Demo Add to cart button

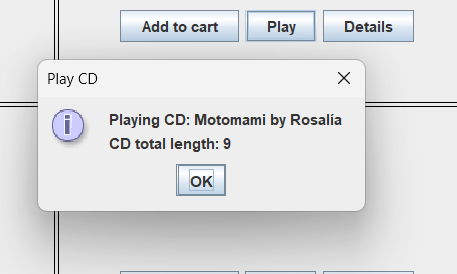


Figure 3.12 Demo Play button

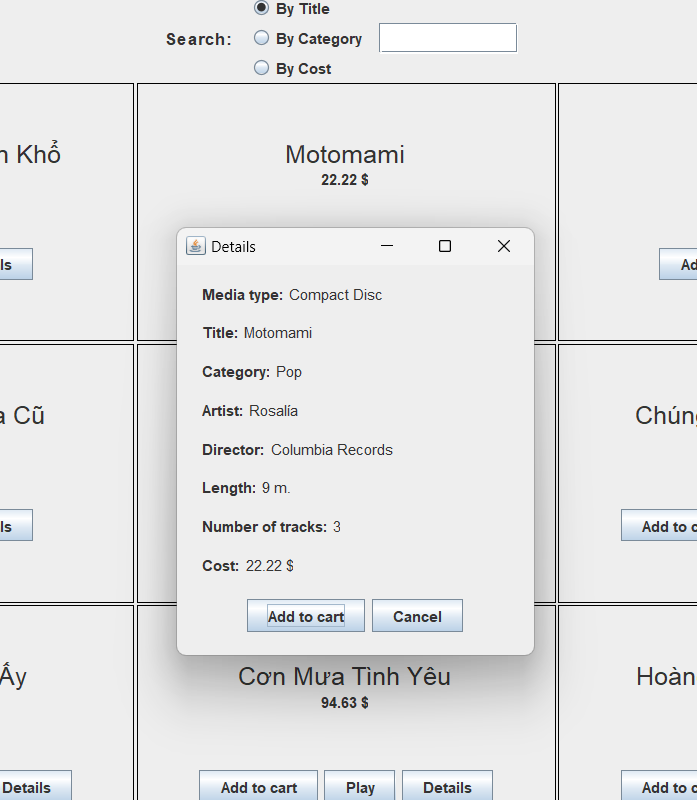


Figure 3.13 Demo View cart button

# JavaFX API

## Create class Painter

## A screen shot of a computer Description automatically generated

## Create Painter.fxml

A screenshot of a computer program

Description automatically generatedFigure 4.1: Class Painter

Figure 4.2: Painter.fxml 1

A screen shot of a computer program

Description automatically generated

## 

## Create class PainterController

Figure 4.3: Painter.fxml 2

A screenshot of a computer program

Description automatically generated

Figure 4.4: PainterController

*A screenshot of a computer

Description automatically generated*

Figure 4.5: Use Pen

*A screenshot of a computer

Description automatically generated*

Figure 4.6: Use Eraser

*A screenshot of a computer

Description automatically generated*

Figure 4.7: Clear button

# View Cart Screen

## A screen shot of a computer Description automatically generatedCreate cart.fxml

Figure 5.1: Cart.fxml 1

*A screen shot of a computer program

Description automatically generated*

Figure 5.2: Cart.fxml 2

A screenshot of a computer program

Description automatically generated

A screen shot of a computer

Description automatically generated

A screenshot of a computer program

Description automatically generated

## Create class CartScreen

Figure 5.3: Cart.fxml 3

Figure 5.4: CartScreen class

## A screenshot of a computer program Description automatically generatedCreate class CartScreenController

Figure 5.5: CartScreenController 1

*A screenshot of a computer program

Description automatically generated*

Figure 5.6: CartScreenController 2

A screen shot of a computer program

Description automatically generated A screenshot of a computer program

Description automatically generated

## Demo

## A screenshot of a computer Description automatically generated

## A screenshot of a computer Description automatically generated

Figure 5.7: Demo CartScreen

1. Updating buttons based on selected item in TableView –

ChangeListener

## Edit class CartScreenController

## 

Figure 6.1: CartScreenController 1

A computer screen shot of a program code

Description automatically generated

## Demo

Figure 6.2: CartScreenController 2

A screenshot of a computer

Description automatically generated

Figure 6.3: Demo media playable

*A screenshot of a computer

Description automatically generated*

Figure 6.4: Demo media unplayable

# Deleting a media

## Code

## A screen shot of a computer program Description automatically generated

Figure 7.1: btnRemovePressed Method

## Demo

## A screenshot of a computer Description automatically generated

A screenshot of a computer

Description automatically generatedFigure 7.2: button Remove

Figure 7.3: button Remove

# Complete the Aims GUI application

# A screenshot of a computer Description automatically generated

Figure 8.1: Store before add book

*A screenshot of a computer

Description automatically generated*

Figure 8.2: Add book

A screenshot of a computer

Description automatically generated

Figure 8.3: Store after add book

A screenshot of a computer

Description automatically generated

Figure 8.4: Add CD

A screenshot of a computer

Description automatically generated

Figure 8.5: Store after add CD

*A screenshot of a computer

Description automatically generated*

Figure 8.6 Add DVD

*A screenshot of a computer

Description automatically generated*

Figure 8.7: Store after add DVD

*A computer screen shot of a program

Description automatically generated*

Figure 8.8: Cart

A screen shot of a computer program

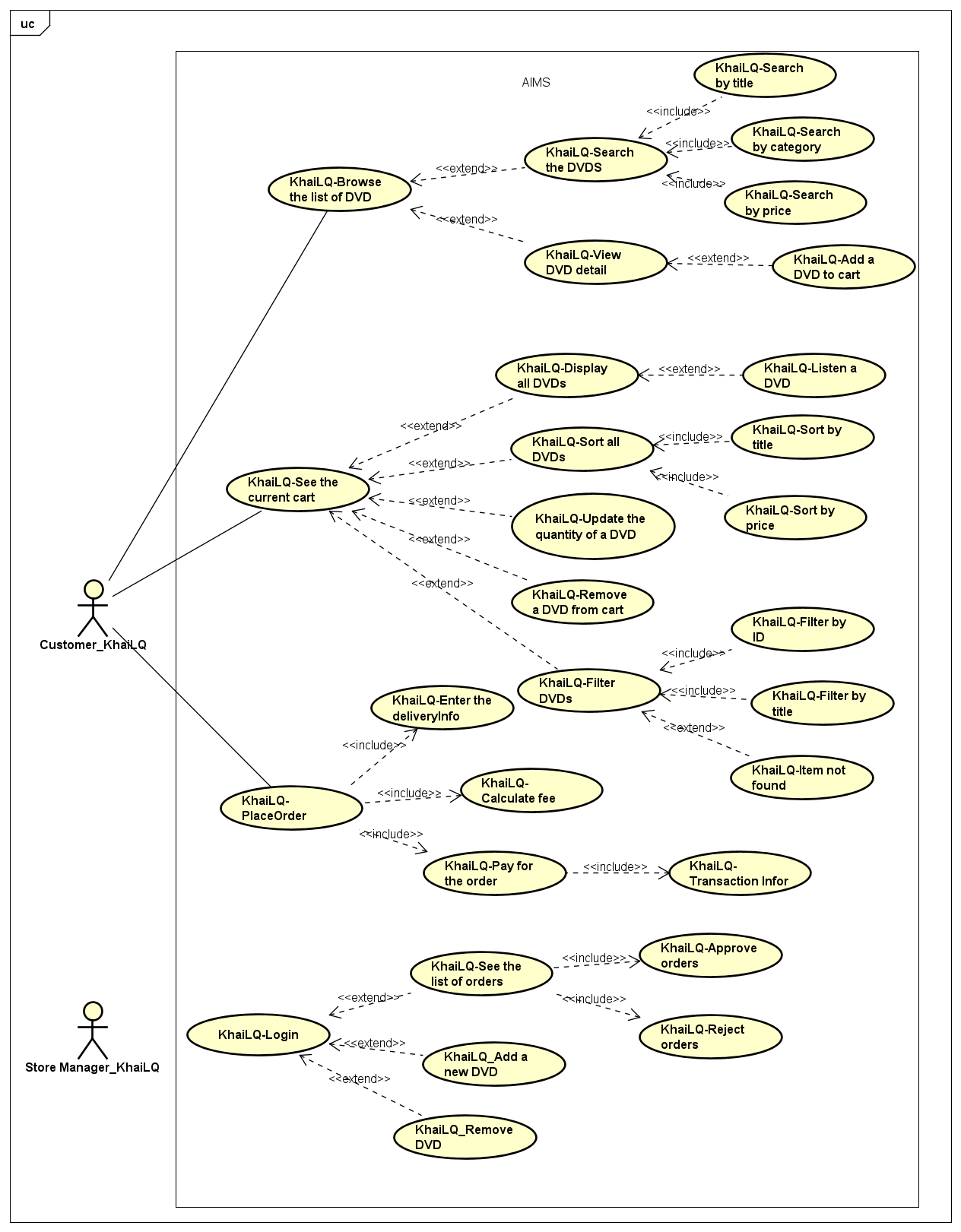
Description automatically generated

A screenshot of a computer program

Description automatically generated

# Use case Diagram

Figure 8.9: Exception



# Class Diagram