

Báo cáo tuần 5 Thực hành lập trình hướng đối tượng

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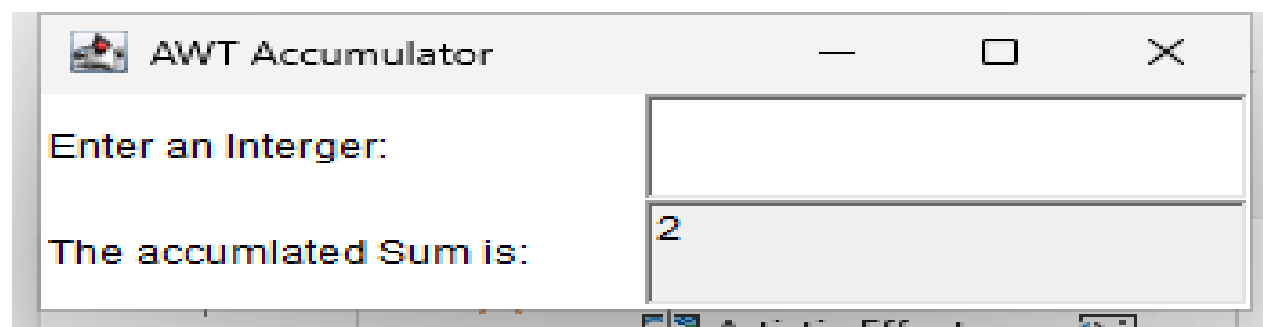
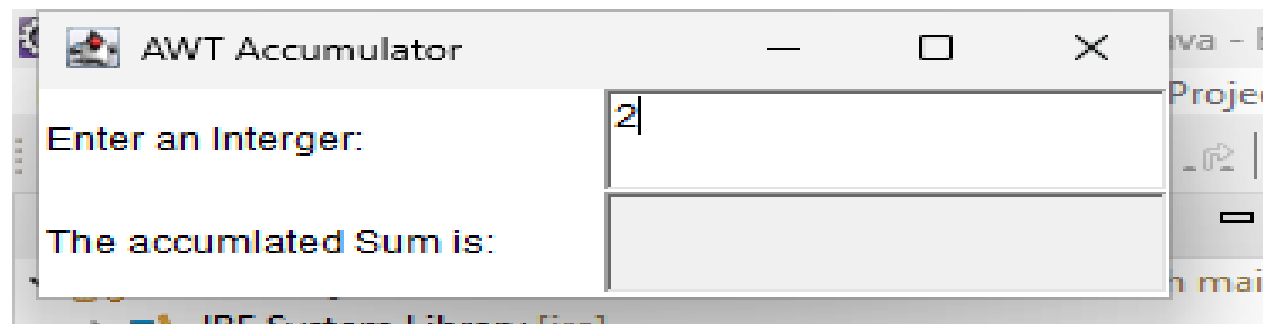
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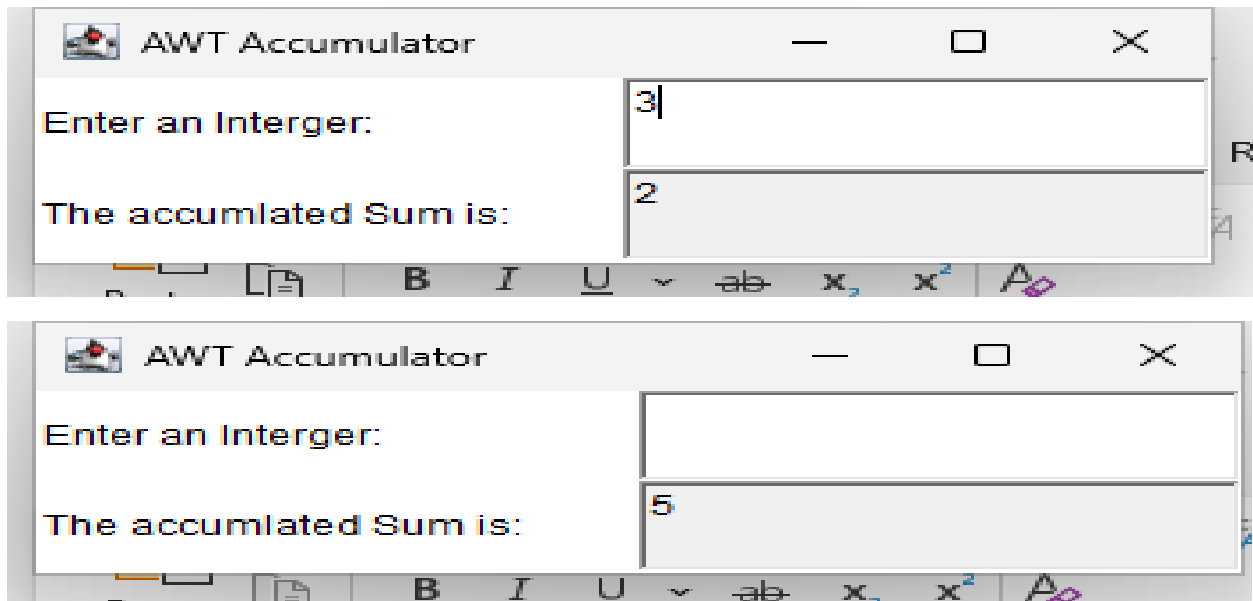
1. Swing components

Source

```
1 /**
2  * Author: Chu Việt Anh
3  */
4 package GUI.Swing;
5
6 import java.awt.*;
7
8
9
10 public class AWTAccumulator extends Frame{
11     private TextField tfInput;
12     private TextField tfOutput;
13     private int sum = 0; // init sum = 0
14
15     // constructor to setup the GUI components and event handlers
16     public AWTAccumulator() {
17         setLayout(new GridLayout(2, 2));
18
19         add(new Label("Enter an Interger: "));
20         tfInput = new TextField(10);
```

Result





2. Class NumberGrid

Source

```

20 * Author: Chu Việt Anh
4 package GUI.Swing;
5
6 import java.awt.*;
7
1 public class NumberGrid extends JFrame {
2     private JButton[] btnNumbers = new JButton[10];
3     private JButton btnDelete, btnReset;
4     private JTextField tfDisplay;
5
6     public NumberGrid() {
7         tfDisplay = new JTextField();
8         tfDisplay.setComponentOrientation(ComponentOrientation.RIGHT_TO_LEFT);
9
10        JPanel panelButtons = new JPanel(new GridLayout(4, 3));

```

Result

658		
1	2	3
4	5	6
7	8	9
DEL	0	C

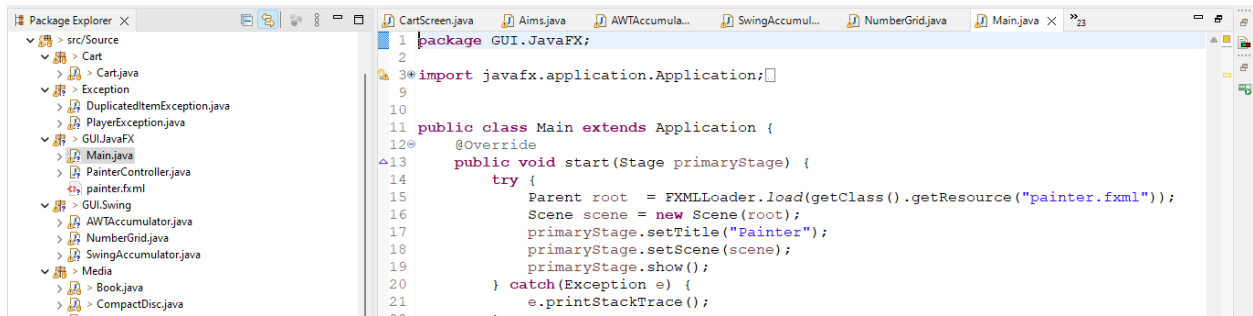
3. Create a graphical user interface for AIMS with Swing

Source

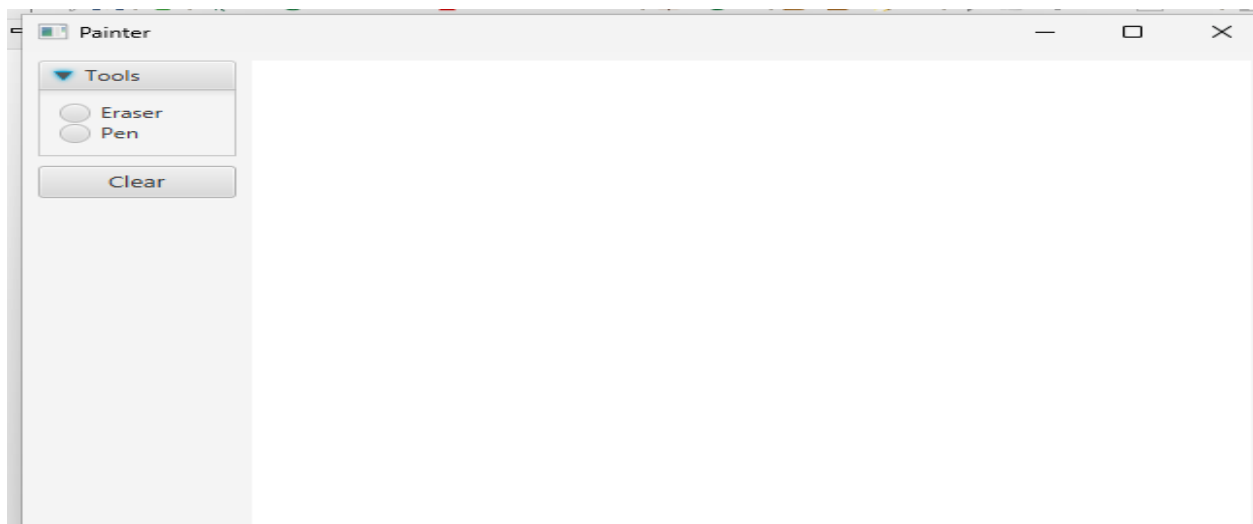
```
1 /**
2  * Author: Chu Việt Anh
3  */
4 package Screen;
5 import java.io.IOException;
6
7 import javax.swing.JFrame;
8 import javafx.application.Platform;
9 import javafx.embed.swing.JFXPanel;
10 import javafx.fxml.FXMLLoader;
11 import javafx.scene.Parent;
12 import javafx.scene.Scene;
13 import Cart.Cart;
14
15 public class CartScreen extends JFrame {
16     private Cart cart;
17
18     public CartScreen(Cart cart) {
```

4. JavaFX API

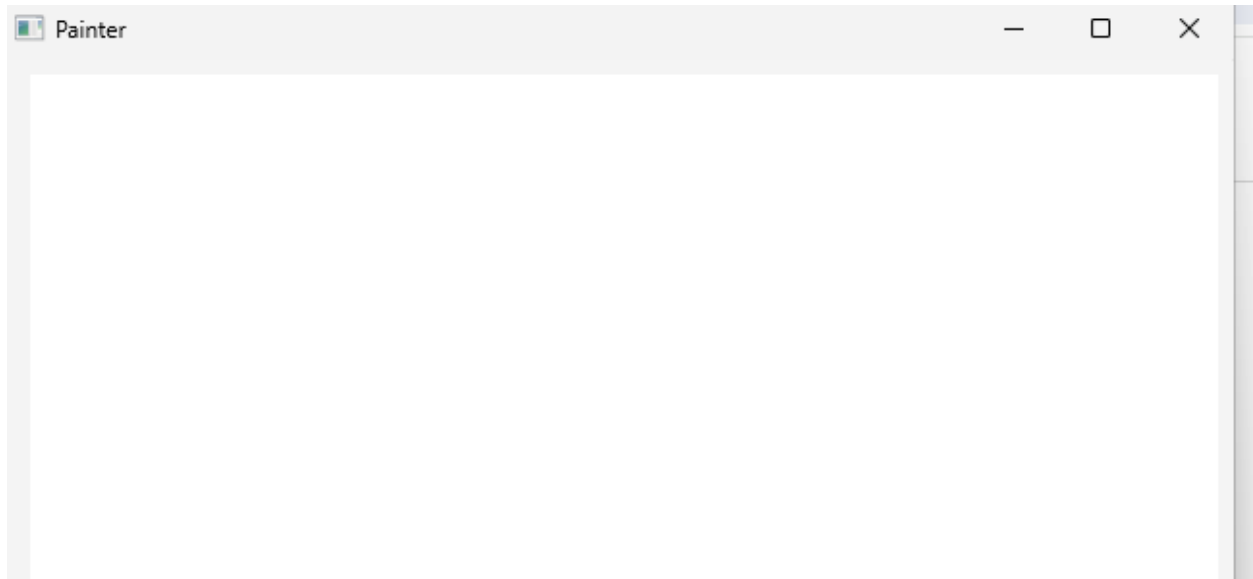
Source



Result

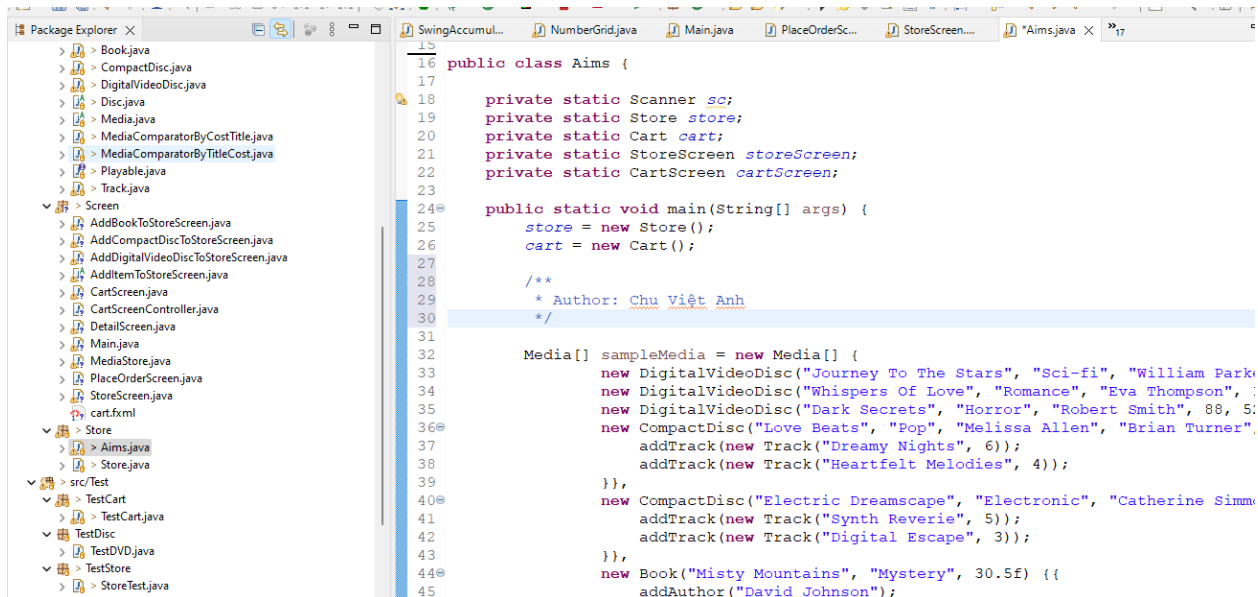


Function clear



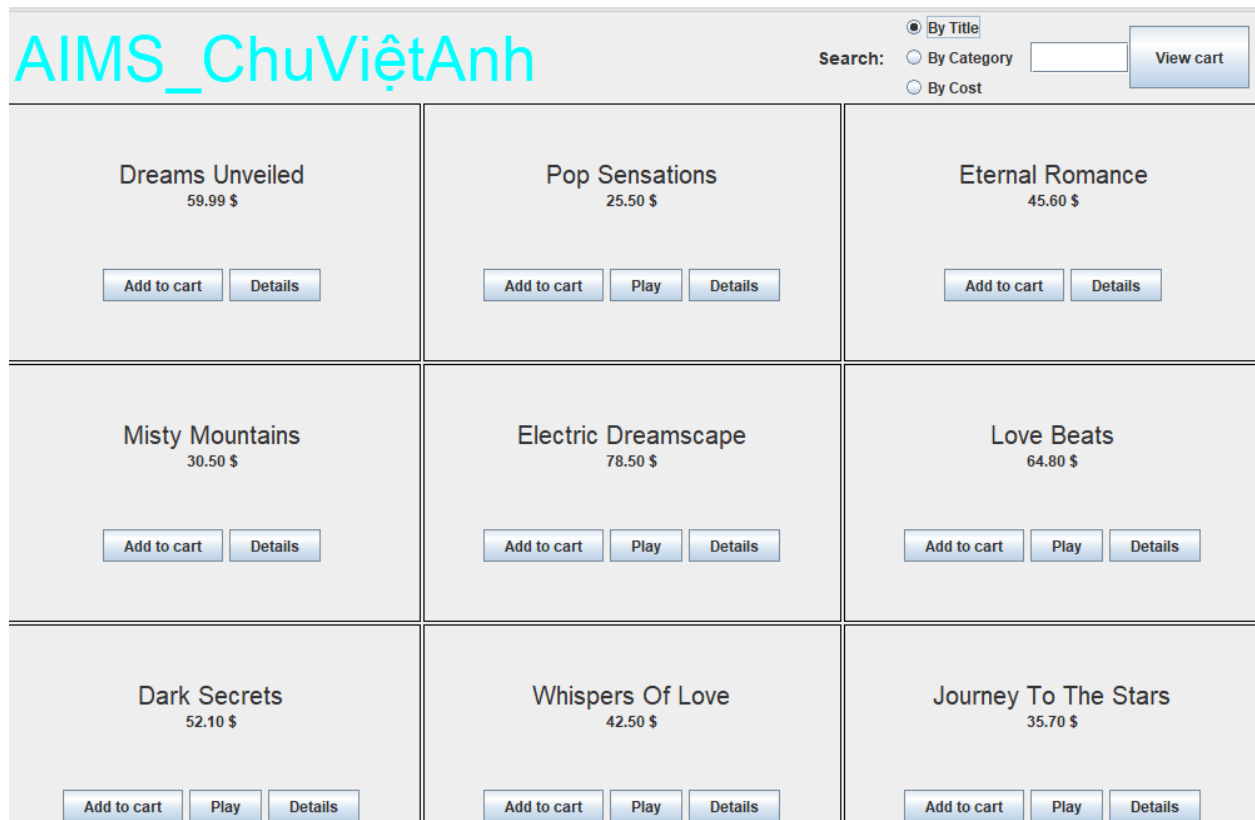
5.Demo AimsProject

Source

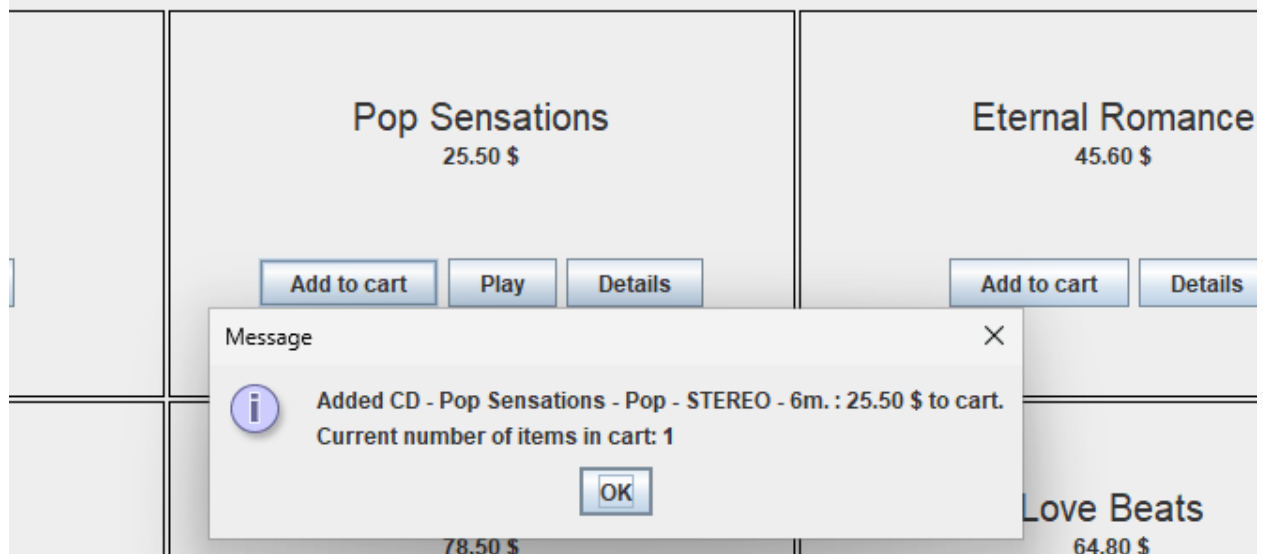


Result

Menu-StoreScreen



FunctionAddToCart

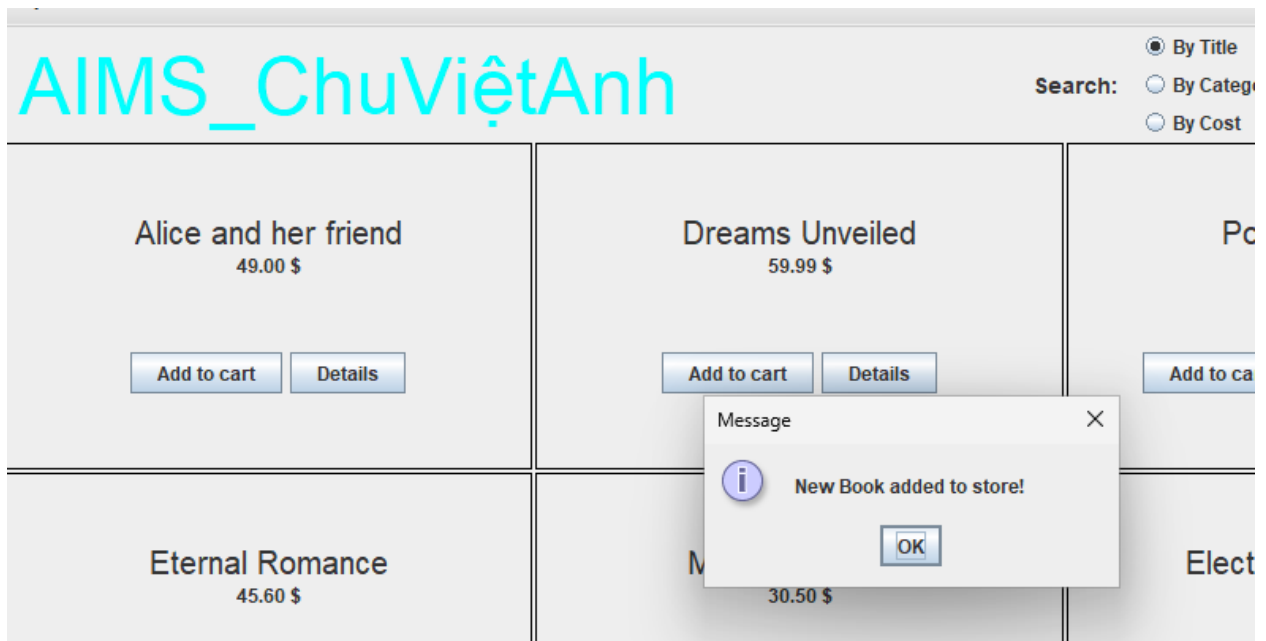


Function options



Function AddBook

The screenshot shows a dialog box titled 'Add new Book'. It contains the text 'Please enter new Book's information'. There are four input fields: 'Title: *' with the value 'Alice and her friend', 'Category:' with the value 'Fairy tales', 'Author(s):' with the value 'Lucas', and 'Cost: *' with the value '49'. Below the fields is the text '(*: required fields)'. At the bottom are two buttons: 'OK' and 'Cancel'.

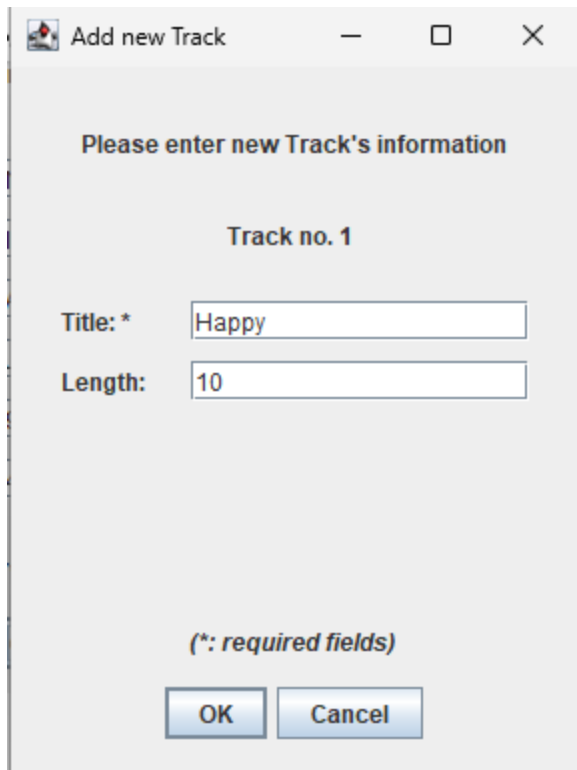


Function AddCD

The screenshot shows a dialog box titled "Add new CD" with standard window controls (minimize, maximize, close). Inside the dialog, the text "Please enter new CD's information" is displayed. Below this, there are six input fields, each with a label and an asterisk indicating it is required:

- Title: * (containing "Nắng")
- Category: (containing "light music")
- Artist: (containing "Aly")
- Director: (containing "Jame")
- Cost: * (containing "99")
- Tracks: * (containing "4")

At the bottom of the dialog, there is a note "(*: required fields)" and two buttons: "OK" and "Cancel".

A dialog box titled "Add new Track" with a standard Windows window frame. It contains a label "Please enter new Track's information" and a sub-label "Track no. 1". There are two input fields: "Title: *" with the text "Happy" and "Length:" with the text "10". At the bottom, there is a note "(*: required fields)" and two buttons, "OK" and "Cancel".

Add new Track

Please enter new Track's information

Track no. 1

Title: *

Length:

(*: required fields)

OK Cancel

The interface shows a website header with the logo "AIMS_ChViệtAnh" in cyan. To the right is a search bar with radio buttons for "By Title" (selected), "By Category", and "By Cost", followed by a search input field and a "View cart" button. The main content area is a grid of CD items. Each item has a title, a price, and two buttons: "Add to cart" and "Details". A modal message box is open in the center, displaying an information icon, the text "New CD added to store!", and an "OK" button.

AIMS_ChViệtAnh

Search: ☒ By Title ☐ By Category ☐ By Cost View cart

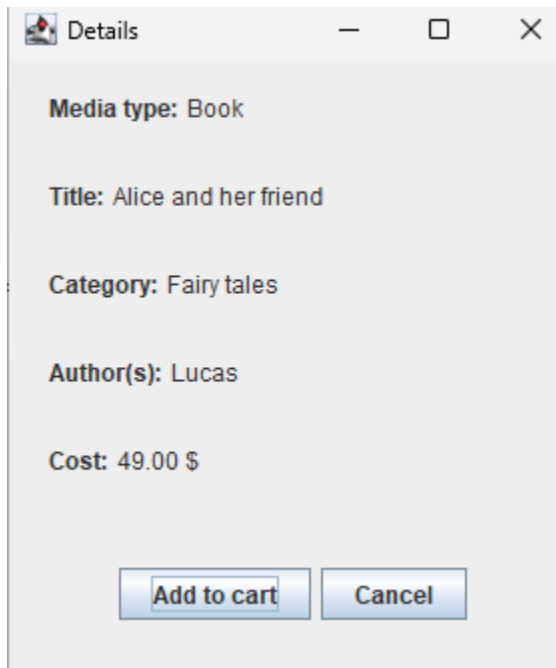
<p>Nắng 99.00 \$</p> <p>Add to cart Play Details</p>	<p>Alice and her friend 49.00 \$</p> <p>Add to cart Details</p>	<p>Dreams Unveiled 59.99 \$</p> <p>Add to cart Details</p>
<p>Pop Sensations 25.50 \$</p>	<p>E... 10.50 \$</p>	<p>Misty Mountains 22.50 \$</p>

Message

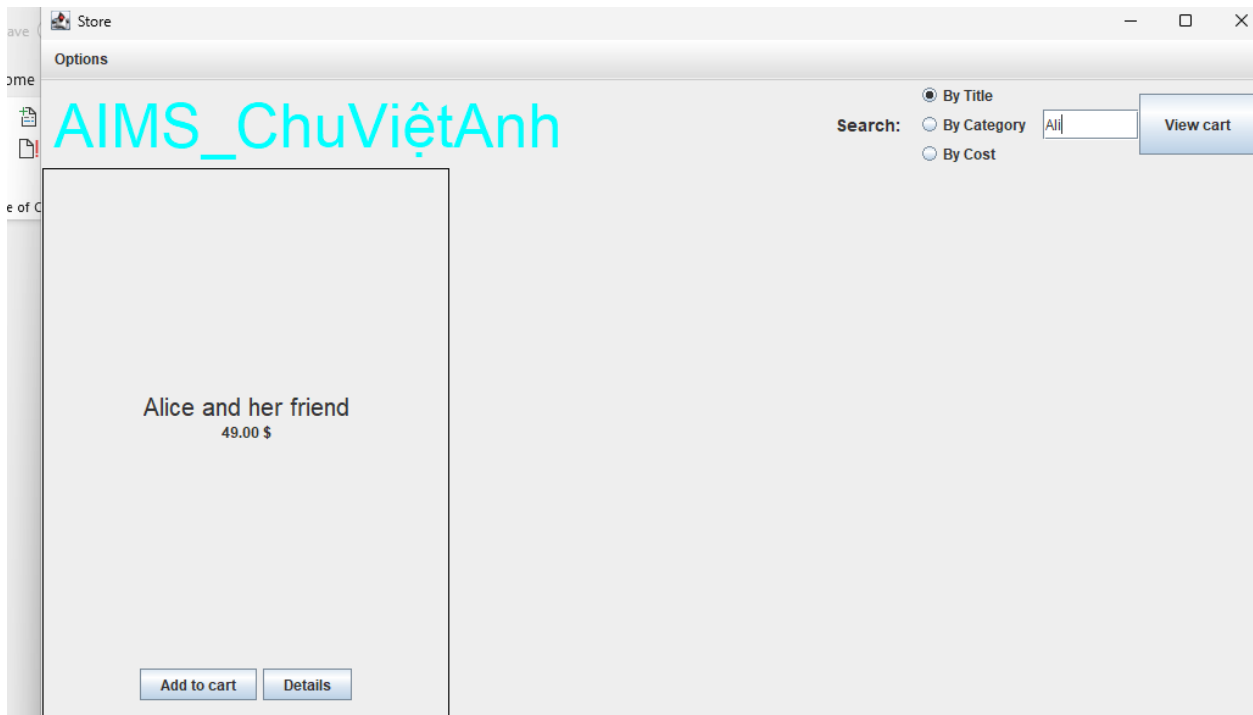
New CD added to store!

OK

Function ViewDetail



FilterByTitle



FilterByCategory

Options

AIMS_ChViệtAnh

Search: ☐ By Title ☒ By Category ☐ By Cost

Pop Sensations 25.50 \$	Love Beats 64.80 \$
----------------------------	------------------------

FilterByCost

AIMS

Search: ☐ By Title ☐ By Category From to ☒ By Cost

Pop Sensations 25.50 \$

CartScreen

Cart

Options

CART

Filter: ☒ By ID ☐ By Title

Sort by Title Sort by Cost

Title	Category	Cost
Eternal Romance	Romance	45.6
Pop Sensations	Pop	25.5

Total: 71.10 \$

Place Order

btnSortByTitle

Filter: ☒ By ID ☐ By Title

Sort by Title Sort by Cost

Title	Category	Cost
Pop Sensations	Pop	25.5
Eternal Romance	Romance	45.6

Total: 71.10 \$

btnSortByCost

CART

Filter: ☒ By ID ☐ By Title

Sort by Title Sort by Cost

Title	Category	Cost
Eternal Romance	Romance	45.6
Pop Sensations	Pop	25.5

Total: 71.10 \$

btnOrder

Category

Cost

Delivery Information

-

□

×

Please enter your delivery information

Name:

Email:

Phone:

Address:

Note:

OK

Cancel

Total: 71.10 \$

Place Order

Final Result

Invoice

INVOICE

Ordered items list:

- Eternal Romance : 45.60 \$
- Pop Sensations : 25.50 \$

Cost of items: 71.10 \$

VAT: 7.11 \$

Delivery fee: 4.62 \$

Total cost: 82.83 \$

6. Diagrams

