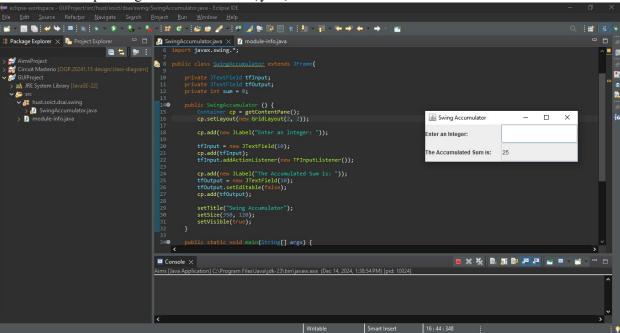
Báo cáo thực hành LAB05

Lục Minh Đức - 20225810

1. Swing components

- Hình ảnh cho lớp SwingAccumulator và chạy thực tế:

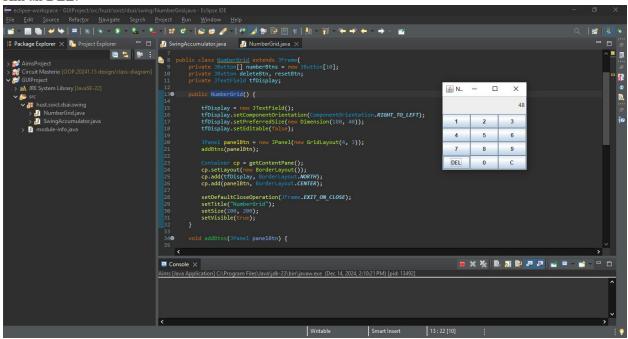


2. Organizing Swing components with Layout Managers

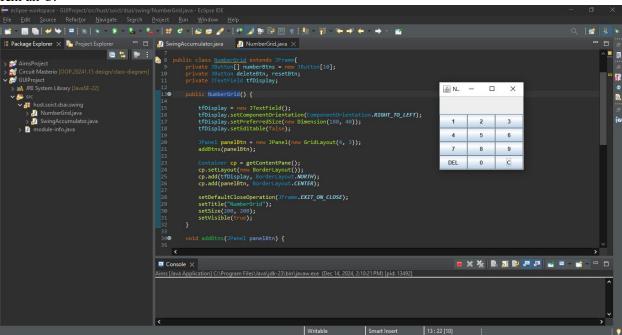
- Hình ảnh cho lớp NumberGrid chạy thực tế:

```
| Part |
```

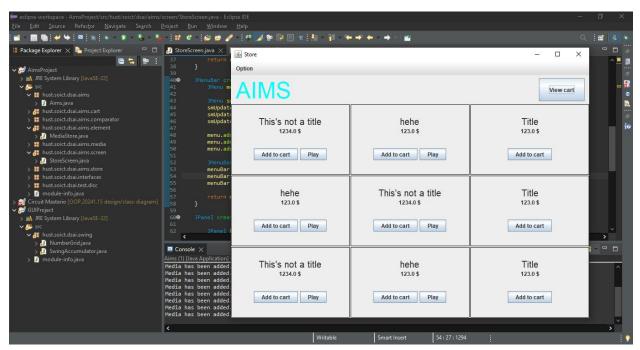
Khi ấn DEL:



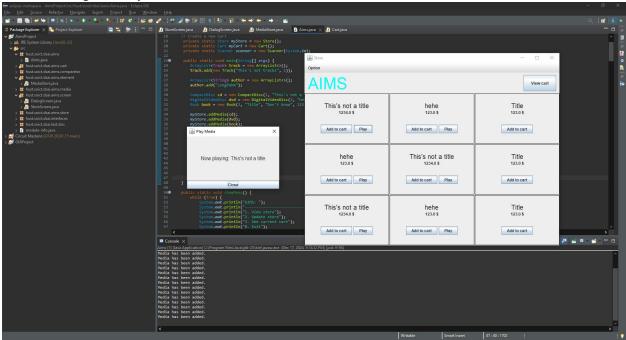
Khi ấn C:

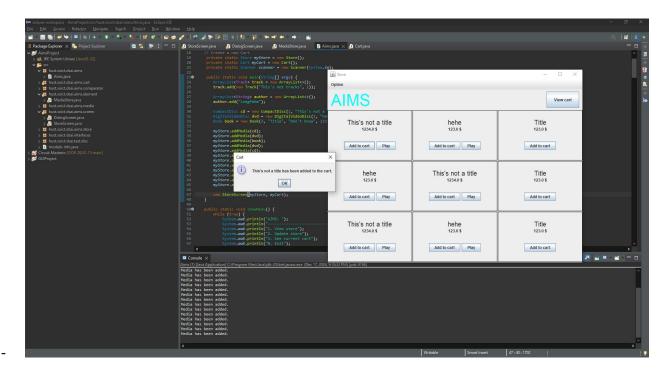


- 3. Create a graphical user interface for AIMS with Swing
- Hình ảnh cho class AIMS:



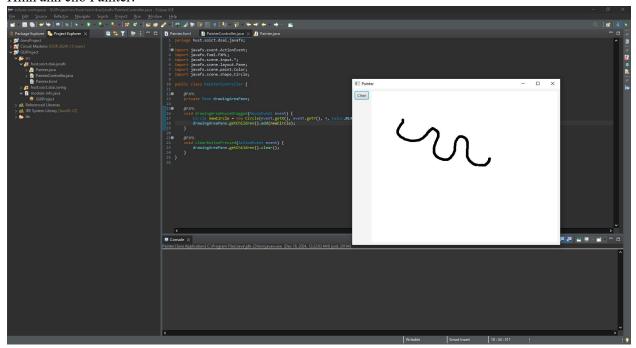
- Các hành động cho Play và add to cart:





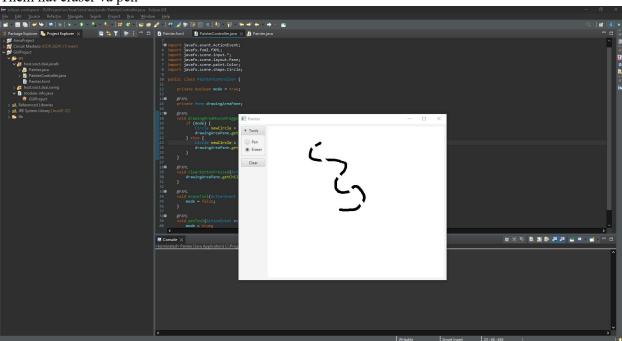
4. JavaFX API

- Hình ảnh cho Painter:

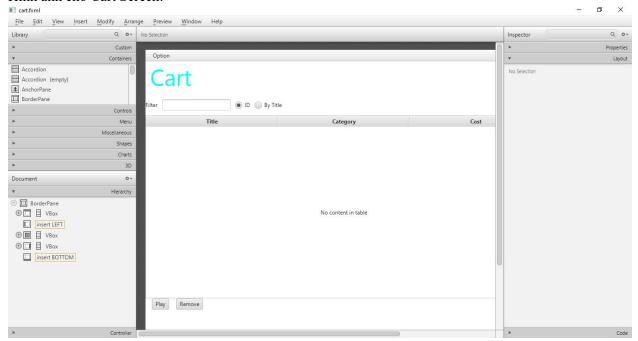


4.4. Practice exercise

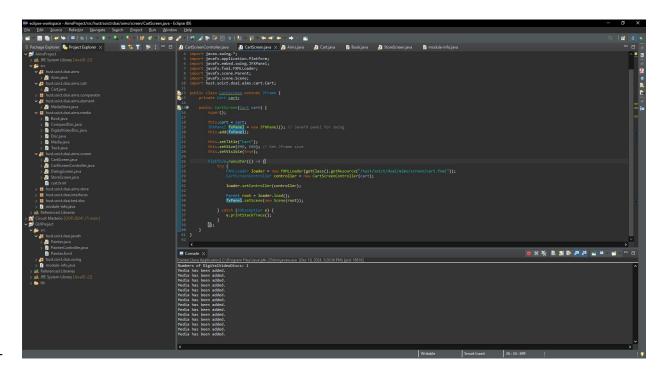
- Thêm nút eraser và pen



- 5. Setting up the View Cart Screen with ScreenBuilder
 - Hình ảnh cho Cart Screen:

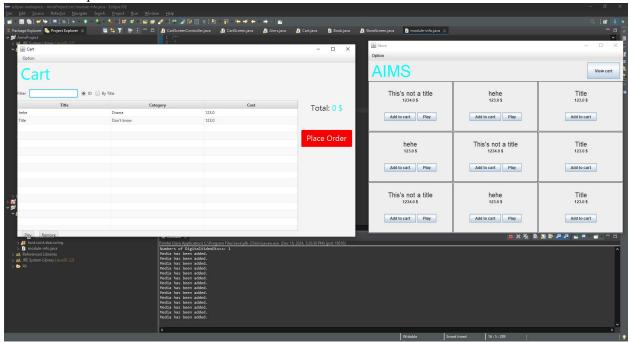


- 6. Integrating JavaFX into Swing application The JFXPanel class
- Hình ảnh cho đoạn mã của CartScreen:



7. View the items in cart – JavaFX's data-driven UI

- Hình ảnh cho phần Cart screen và add vào cart:

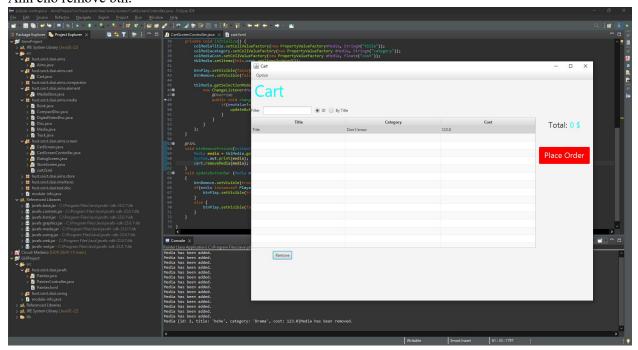


- 8. Updating buttons based on selected item in TableView ChangeListener
- Ånh cho phần update button:

```
The field was drived broken with the field of the field o
```

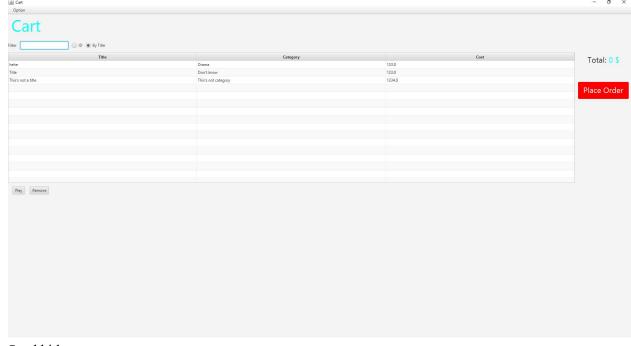
9. Deleting a media

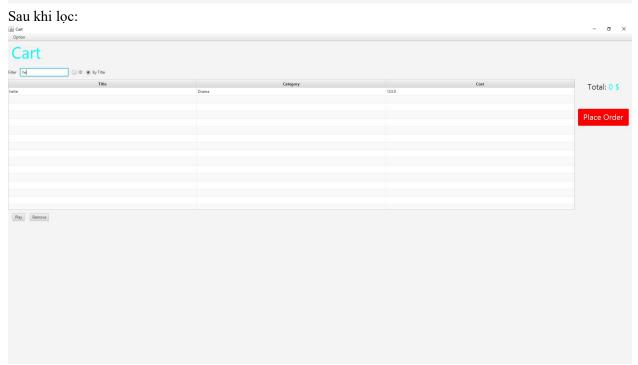
- Ånh cho remove btn:



10. Filter items in cart - FilteredList

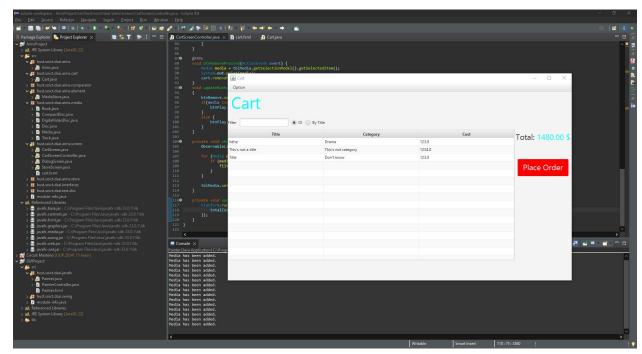
- Trước khi lọc:



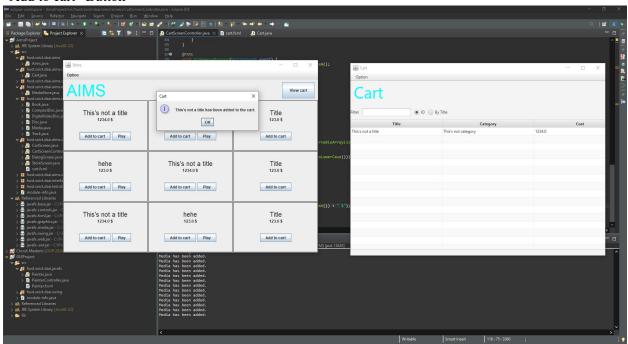


11. Complete the Aims GUI application

Cải thiện Total:

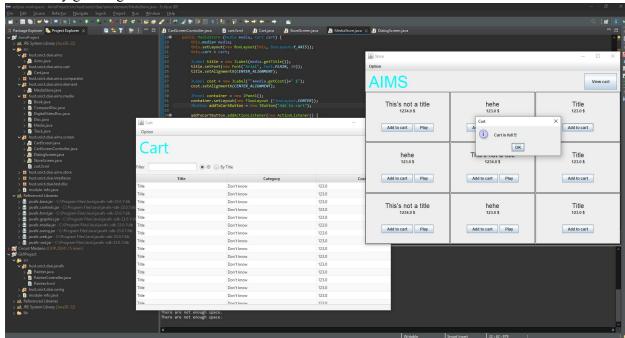


- "Add to cart" Button



12. Check all the previous source codes to catch/handle/delegate runtime exceptions

- Bắt lỗi đầy giỏ hang:



- 13. Create a class which inherits from Exception
- Đoạn mã cho lớp Track và DigitalVideoDisc:

```
public void play() throws PlayerException {
    if (this.getLength() > 0) {
        System.out.println("Playing DVD: " + this.getTitle());
        System.out.println("DVD length: " + this.getLength());
    } else {
        throw new PlayerException("ERROR: DVD length is non-positive!");
    }
}
```

```
package hust.soict.dsai.aims.media;

import hust.soict.dsai.aims.exception.PlayerException;

import hust.soict.dsai.interfaces.Playable;

public class Track implements Playable {

private String title;
private int length;

public void play() throws PlayerException {

if (this.getLength() > 0) {

System.out.println("Playing DVD: " + this.getTitle());

System.out.println("DVD length: " + this.getLength());

} else {

throw new PlayerException("ERROR: DVD length is non-positive!");

}

public String getTitle() {

return title;

public int getLength() {

return length;

}
```

- Hình ảnh cho Track exception:

```
package hust.soict.dsai.aims.media;
  3@ import java.util.ArrayList;
  4 import java.util.Iterator;
     import hust.soict.dsai.aims.exception.PlayerException;
    import hust.soict.dsai.interfaces.*;
    public class CompactDisc extends Disc implements Playable{
         private String artist;
         private ArrayList<Track> tracks = new ArrayList<Track>();
14€
         public void play() throws PlayerException {
             if(this.getLength() > 0) {
216
                 Iterator<Track> iter = tracks.iterator();
                 Track nextTrack;
                 while(iter.hasNext()) {
                     nextTrack = (Track) iter.next();
                     try {
                         nextTrack.play();
                     } catch (PlayerException e) {
                         throw e;
             }else {
                 throw new PlayerException("ERROR: CD length is non-positive!");
             }
 320
         public String getArtist() {
             return artist:
 350
         public ArrayList<Track> getTracks() {
             return tracks;
△38€
         public int getLength() {
             return tracks.size();
```

14. Update the Aims class

- Try catch hiển thị alert khi gặp lỗi cho lớp aims, main function:

```
try {
    StoreScreen storeScreen = new StoreScreen(myStore, myCart);
    CartScreen cartScreen = new CartScreen(myCart);
} catch (Exception e) {
    e.printStackTrace();
    Alert alert = new Alert(AlertType.ERROR);
    alert.setTitle("Error");
    alert.setHeaderText("An error occurred while initializing screens");
    alert.setContentText(e.getMessage());
    alert.showAndWait();
}

60
}
```

15. Modify the equals() method of Media class

- Hàm equals mới cho Media class:

16. Reading Document

17. Update Aims Class Diagram

