Sprawozdanie z ćwiczenia 2

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Zadanie 1

W celu dodania dodatkowych atrybutów dla każdej kategorii stworzyliśmy osobną klasę dla każdej z kategorii która dziedziczy z klasy Item. Dla każdej po za kategorią Sport która nie wnosi żadnych nowych atrybutów

```
public class Book extends Item{
   public int getPageNumber() { return pageNumber; }
oackage pl.edu.agh.dronka.shop.model;
   public Electronics(String name, Category category, int price, int quantity, boolean mobile, boolean warranty) {
```

```
package pl.edu.agh.dronka.shop.model;
   private Date expiryDate;
   public Food(String name, Category category, int price, int quantity, Date expiryDate) {
        super(name, category, price, quantity);
       this.expiryDate = expiryDate;
   public Date getExpiryDate() {
```

W przypadku klasy Music stworzyliśmy dodatkową klasę enum w celu określenia kategorii

```
package pl.edu.agh.dronka.shop.model;

public enum MusicGenre {
    ROCK( displayName: "Rock"), METAL( displayName: "Heavy Metal"), POP( displayName: "Pop"), RAP( displayName: "Rap"), INDIE( displayName: "Indie");

private String displayName;

MusicGenre(String displayName) {
    this.displayName;
}

public String getDisplayName() {
    return displayName;
}

public static MusicGenre parseGenre(String genre) {
    switch(genre) {
        case "Rock": return ROCK;
        case "Pop": return POP;
        case "Rap": return RAP;
        case "Rap": return METAL;
        case "Indie": return INDIE;

default: return null;
}

}

}

}
```

Następnie zmodyfikowaliśmy funkcję readItems z klasy ShopProvider

```
reader.parse();
List<String[]> data = reader.getData();
    String name = reader.getValue(dataLine, name: "Nazwa");
            MusicGenre genre = MusicGenre.parseGenre(reader.getValue(dataLine, name: "Gatunek"));
            item = new Music(name, category, price, quantity, genre, video);
    item.setPolish(isPolish);
```

```
oackage pl.edu.agh.dronka.shop.model.util;
public class PropertiesHelper {
   public static Map<String, Object> getPropertiesMap(Item item) {
       Map<String, Object> propertiesMap = new LinkedHashMap<>();
       propertiesMap.put( k: "Nazwa", item.getName());
       propertiesMap.put( k "Cena", item.getPrice());
       propertiesMap.put( k "Kategoria", item.getCategory().getDisplayName());
       propertiesMap.put( k "Używany", item.isSecondhand());
       switch (item.getCategory()){
               Book book = (Book) item;
               propertiesMap.put( k "Twarda oprawa", book.isHardcover());
               Electronics electronics = (Electronics) item;
               propertiesMap.put( k "Mobilny", electronics.isMobile());
               Food food = (Food) item;
               DateFormat dateFormat = new SimpleDateFormat( pattern: "dd-MM-yyyy");
               propertiesMap.put( k "Data", dateFormat.format(food.getExpiryDate()));
               Music music = (Music) item;
               propertiesMap.put( k "Gatunek", music.getMusicGenre().getDisplayName());
               propertiesMap.put( k "Video", music.isVideo());
       return propertiesMap;
```

Zadanie 2

```
witch (shopController.getCurrentCategory()){
      add(createPropertyCheckbox( propertyName: "Twarda okładka", new ActionListener() {
          @Override
          public void actionPerformed(ActionEvent event) {
               Book book = filter.getBookSpec();
               book.setHardcover(
                       ((JCheckBox) event.getSource()).isSelected());
               shopController.filterItems(filter);
       add(createPropertyCheckbox( propertyName: "Gwarancja", new ActionListener() {
          @Override
          public void actionPerformed(ActionEvent event) {
               Electronics electronics = filter.getElectronicsSpec();
               electronics.setWarranty(
                       ((JCheckBox) event.getSource()).isSelected());
               shopController.filterItems(filter);
      add(createPropertyCheckbox( propertyName: "Mobilny", new ActionListener() {
          @Override
          public void actionPerformed(ActionEvent event) {
               Electronics electronics = filter.getElectronicsSpec();
               electronics.setMobile(
                       ((JCheckBox) event.getSource()).isSelected());
      add(createPropertyCheckbox( propertyName: "Video", new ActionListener() {
          public void actionPerformed(ActionEvent event) {
               Music music = filter.getMusicSpec();
               music.setVideo(
                       ((JCheckBox) event.getSource()).isSelected());
               shopController.filterItems(filter);
```

```
package pl.edu.agh.dronka.shop.model.filter;
import pl.edu.agh.dronka.shop.model.Book;
import pl.edu.agh.dronka.shop.model.Electronics;
import pl.edu.agh.dronka.shop.model.Item;
import pl.edu.agh.dronka.shop.model.Music;
public class ItemFilter {
    private Item itemSpec = new Item();
    private Book bookSpec = new Book();
    private Electronics electronicsSpec = new Electronics();
    private Music musicSpec = new Music();
    public Item getItemSpec() { return itemSpec; }
    public Book getBookSpec() {return bookSpec; }
    public Electronics getElectronicsSpec() { return electronicsSpec; }
    public Music getMusicSpec() { return musicSpec; }
    public boolean appliesTo(Item item) {
        if (itemSpec.getName() != null
                && !itemSpec.getName().equals(item.getName())) {
        if (itemSpec.getCategory() != null
                && !itemSpec.getCategory().equals(item.getCategory())) {
        if (itemSpec.isSecondhand() && !item.isSecondhand()) {
        if (itemSpec.isPolish() && !item.isPolish()) {
```

```
switch (itemSpec.getCategory()){
        Book book = (Book) item;
        if (bookSpec.isHardcover() && !book.isHardcover()){
   case ELECTRONICS:
        if (electronicsSpec.isMobile() && !electronics.isMobile()){
        if (electronicsSpec.isWarranty() && !electronics.isWarranty()){
       Music music = (Music) item;
        if (musicSpec.isVideo() && !music.isVideo()){
```