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Assignment #2

Problem Statement

Implement a standalone product search program in Java, **using Hibernate** that lists matching products for a user who is looking for T-shirts.

You are given 3 CSV files, each containing the T-shirts data for Nike, Puma and Adidas respectively. Use the same CSV files as provided in Assignment 1. You can add more data in existing files or can add more CSV files for another companies. The data from these files needs to be persisted in the database. All the search operations for the flights will be done on the database using hibernate.

Problem Statement...

CSV File Data Details

CSV Fields	Details
ID	Unique product id, starting with 2 digit company code
NAME	Model name
COLOUR	T-shirt Colour
GENDER_RECOMMENDATION	Gender for which this T-shirt is recommended. M, F, U (M – Male, F- Female, U-Unisex)
SIZE	S, M, L, XL, XXL
PRICE	Price of the T-shirt per piece in INR
RATING	Rating of the T-shirt from 1 to 5 (1 being lowest and 5 being highest)
AVAILABILITY	Y or N

Problem Statement

Input

Program should accept 4 input parameters

a. **Colour**
b. **Size**
c. **Gender**
d. **Output Preference**

“Gender” is a String which has two possible values like ‘**M**’ and ‘**F**’. M=Male and F=Female.

“Output Preference” is a String which suggests whether the results should be sorted only by Price or by Rating or by both Price and Rating

Expected Behavior and Output

- After getting the inputs, program should search for the T-shirts in the database and list the results on standard output, sorted as per Output Preference.
- Program should be written considering that there could be more csv files and at runtime program should load the files. Please make use of Thread which will look for any new file at particular location after some configurable time and load the provided file
- If no matching flight is found for the given input, user friendly output should be displayed on the screen.
- Maven 3.x should be used
- Use the new features of Java 8 wherever possible

Output

- Program should display the list of **available** T-shirts with details on console for provided user inputs.

Evaluation Criteria

- Code Completeness and Correctness
- Database design and use of hibernate technology
- Use of Java Collections, Threads and Annotations
- Usage of OO Principles, package/class structure, class/function/variable names
- Code in running condition
- Face to face discussion
- Usage of Java 8 new features