Coding Bootcamp

Assignment 3 Brief

On this assignment you need to implement using the Strategy pattern the following scenario:

You have a product named T-Shirt **[10 marks]** that has three (3) variations, in terms of,

1. Color, {RED, ORANGE, YELLOW, GREEN, BLUE, INDIGO, VIOLET} [5 marks]
2. Size, {XS, S, M, L, XL, XXL, XXXL} [5 marks]
3. Fabric, {WOOL, COTTON, POLYESTER, RAYON, LINEN, CASHMERE, SILK} [5 marks]

Each variation gets a different price tag.

Also, each product can be paid via three (3) different payment methods,

1. Credit / Debit cards **[10 marks]**
2. Money / Bank Transfer **[10 marks]**
3. Cash **[10 marks]**

Construct a Strategy pattern that implements the variations and the payment methods under three (3) combined strategies that implement all the possible combinations as such:

1. Color, Size and Fabric with Credit / Debit Cards **[15 marks]**
2. Color, Size and Fabric with Money / Bank Transfer **[15 marks]**
3. Color, Size and Fabric with Cash **[15 marks]**

Hints: C#, Java, JavaScript, Python

You need to submit all the produced files in a zip file named by your_name_assignment_3.zip