SMARTINTERNZ PROJECT

Name of the Contributor : Dr.SABITHA R
Project Title : Fashion Products Classification using Visual Recognition
Category: IBM Cloud Application

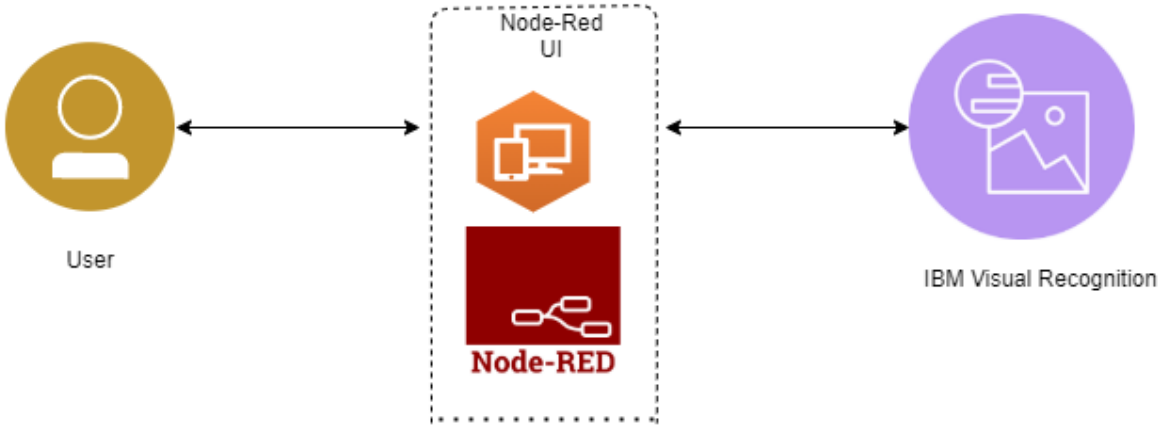
Overview :

In this project you need to build a web application that checks the type of fashion product like Shirt, T-Shirt and Jeans .IBM Watson Visual Recognition services is used to build a custom model to check for the type of product. Build the web application using Node-red Service and integrate to Visual Recognition.

Services Used:

1. IBM Watson Visual Recognition
2. Node-Red

Archietecture:



Task : 1. Building a Custom Model using Visual Recognition Service

Sub Task 1 : Login to IBM Account

Sub Task 2 : Create Visual Recognition Service

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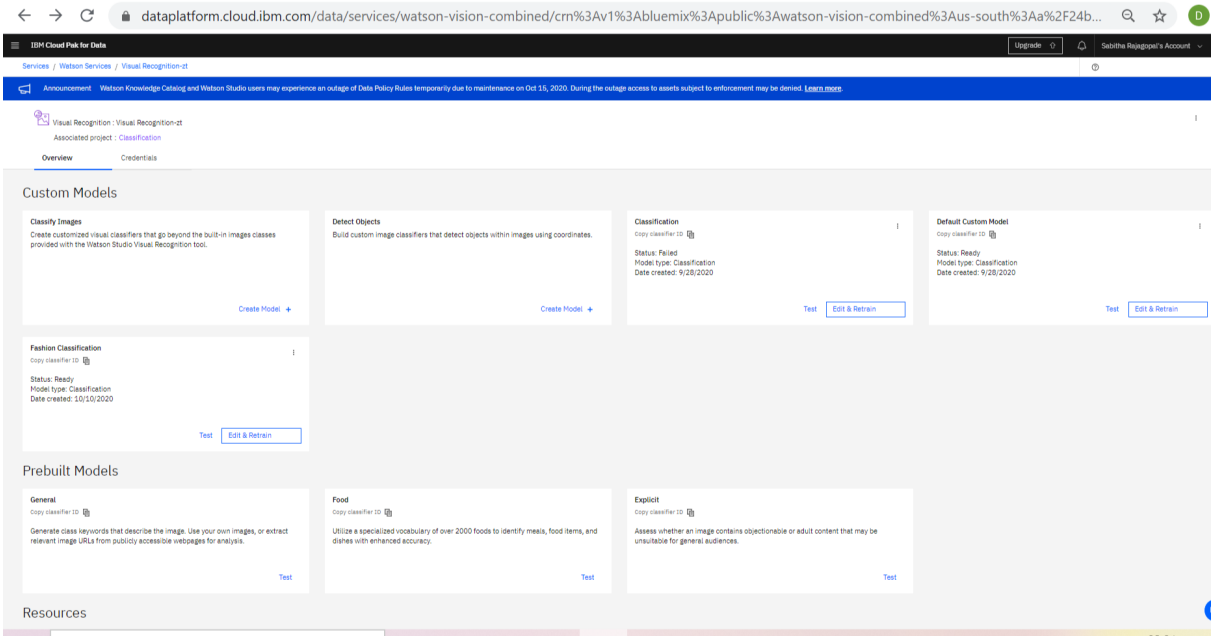
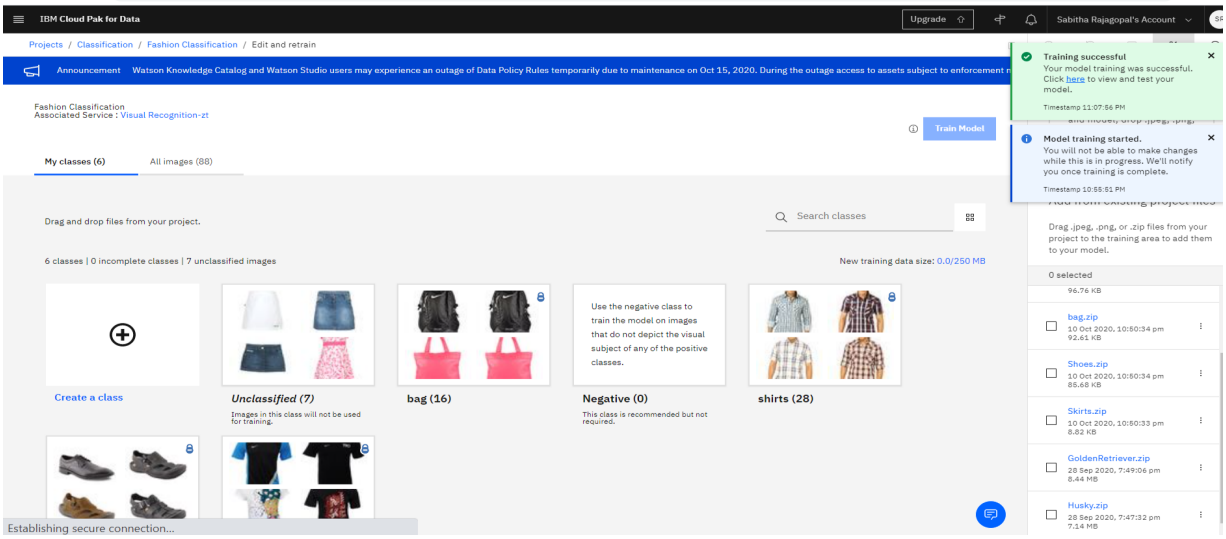


Sub Task 3 : Create Custom Model

Step 1 : Create the custom model for classification
Step 2: Load the Zip files of Images for training
Step 3: Train the classification Model



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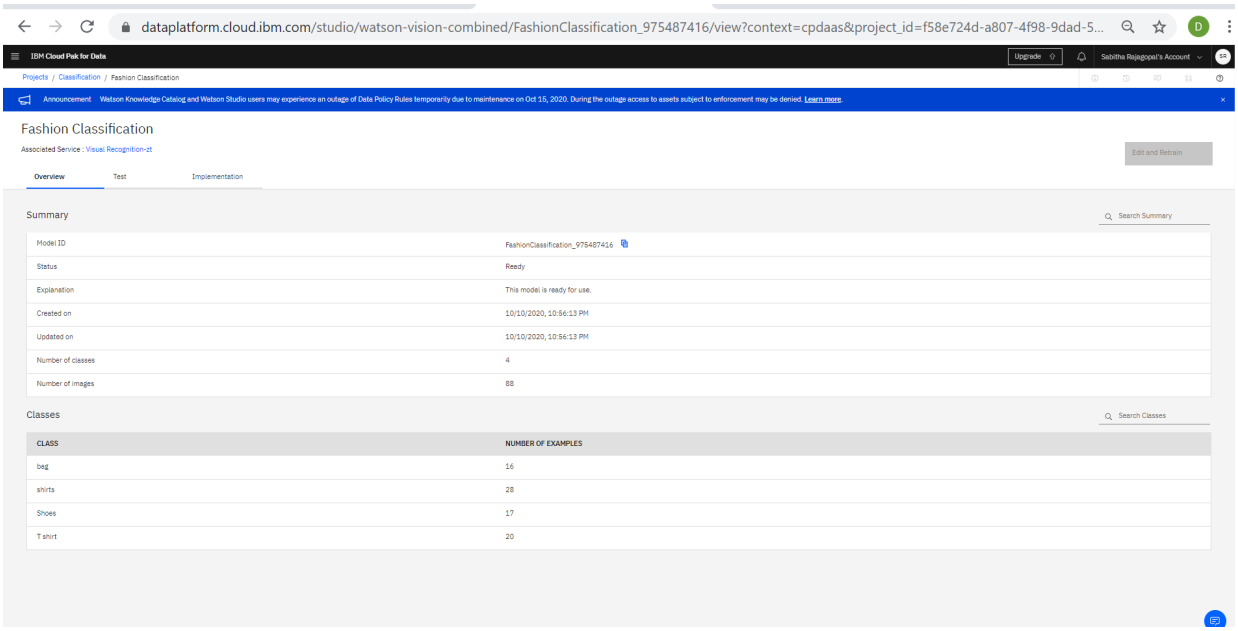
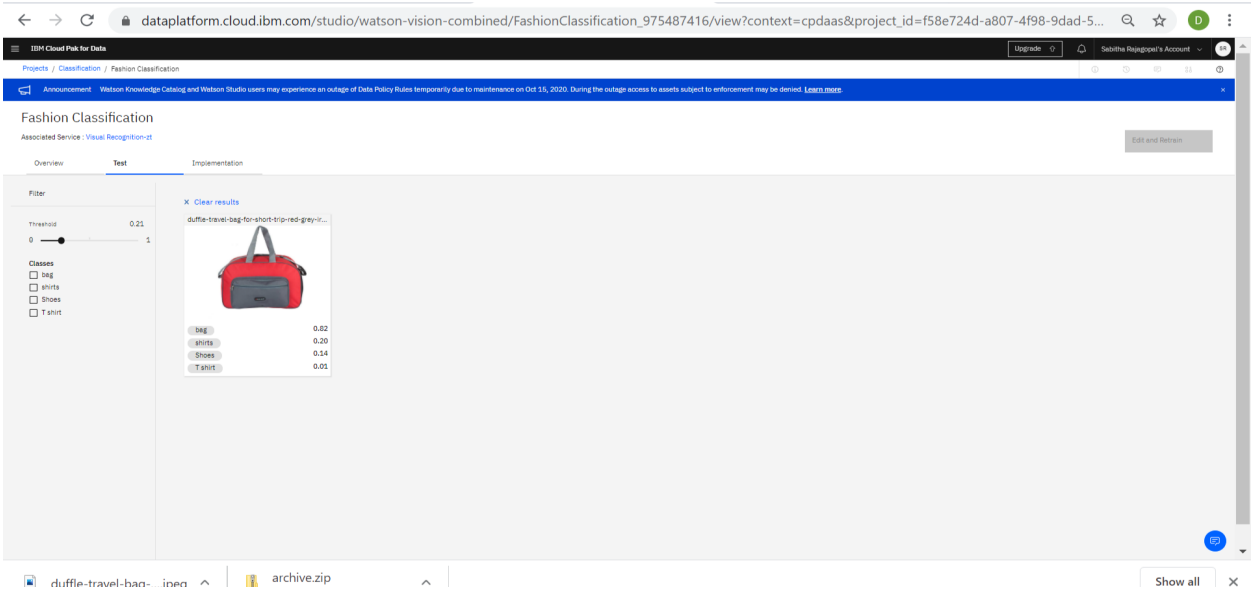


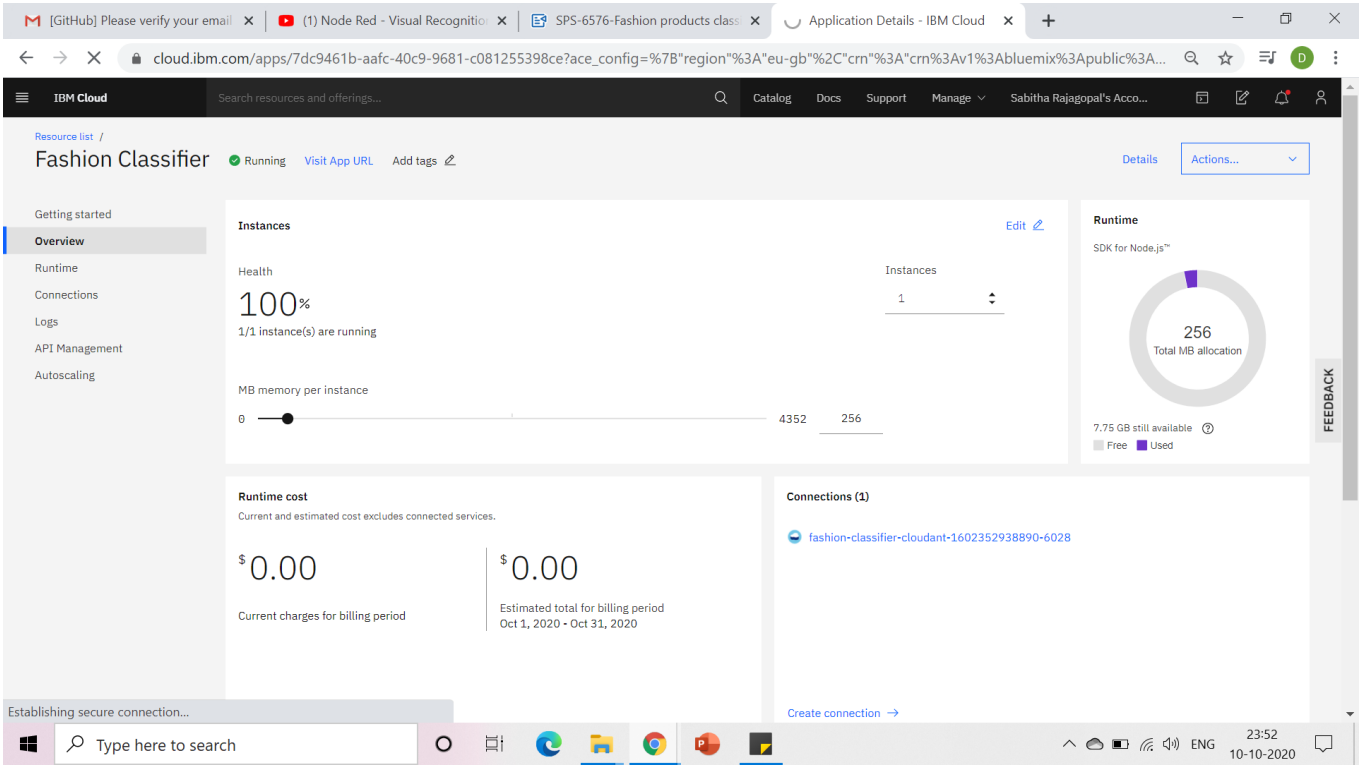
Step 4 : Test the model with new input image and test fro varying threshold values



Task : 2. Building Node-Red Application

Sub-task 1 : Create Node-Red Service

Step 1 : Catalog -- Node-Red -- Create App



Cloud Foundry Apps

Sub-task 2 : Integrate Node Red To Visual Recognition

- Firstly configure the visual recognition by giving API key which you get from the visual recognition service once you have created it.
- Next, install the dashboard nodes from the manage palette and create UI accordingly by making use of form nodes and text nodes.

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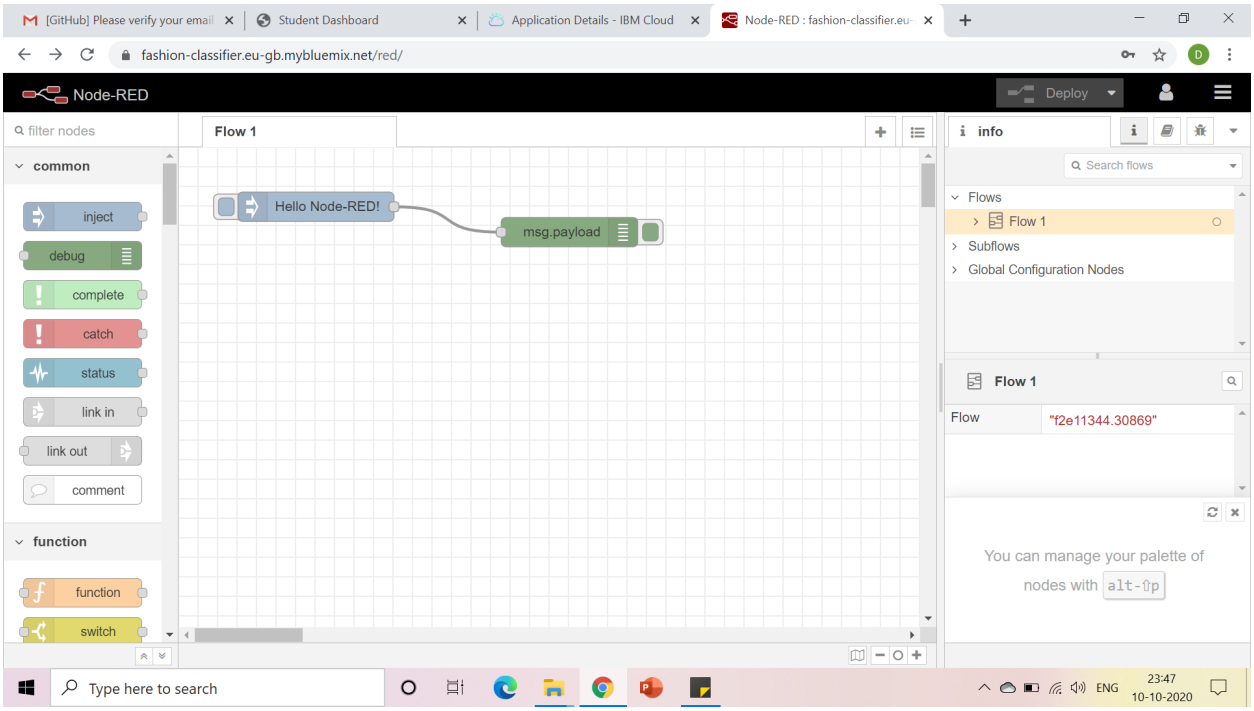

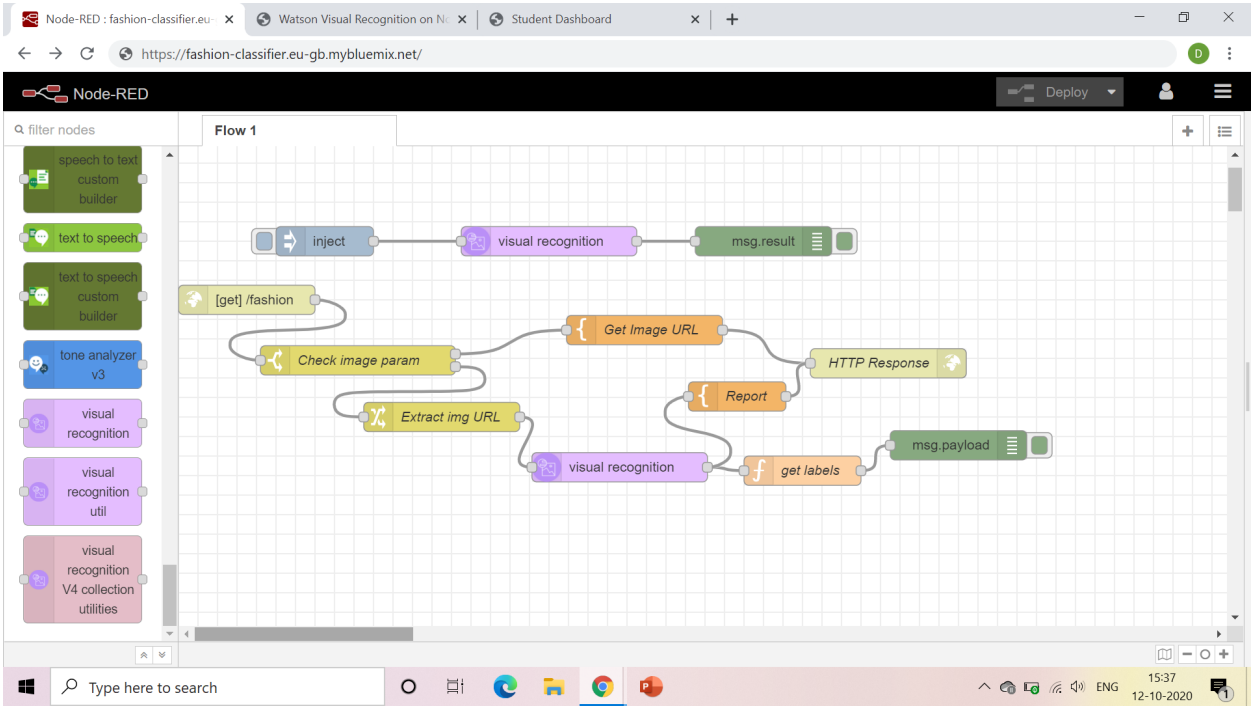

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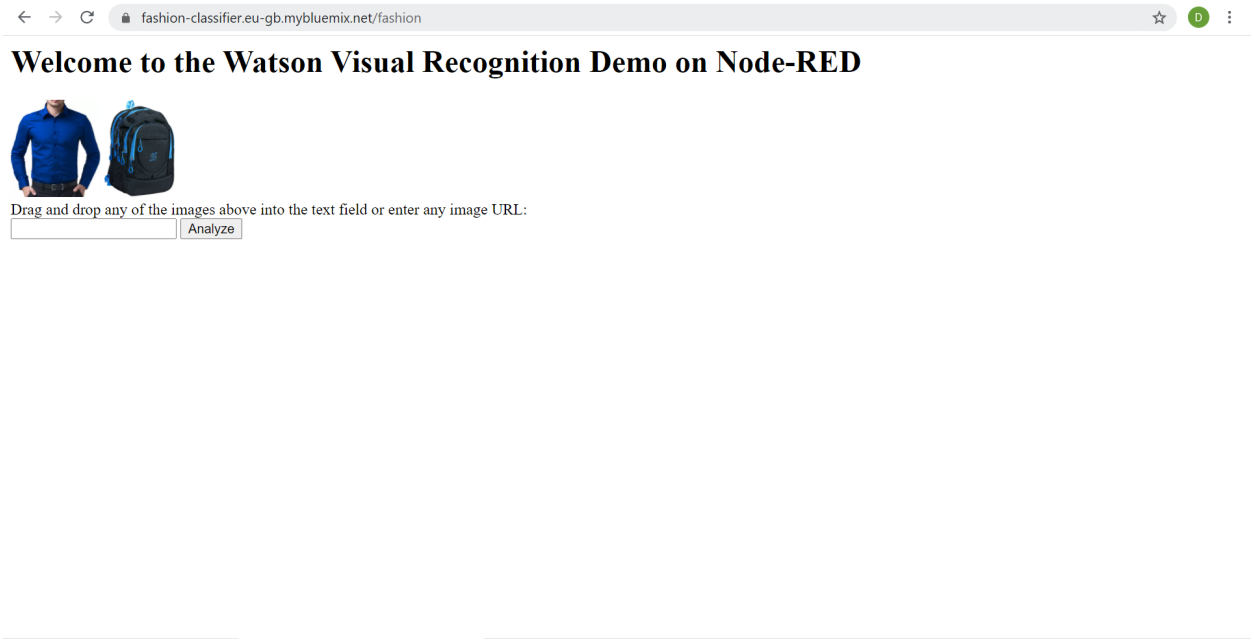
UI CREATION



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fashion-classifier.eu-gb.mybluemix.net/fashion?imageurl=https%3A%2F%2Frukminim1.flixcart.com%2Fimage%2F714%2F857%2Fk65d18w0%2Fshirt%2Fp%2F4%2Ft...

Node-RED Watson Visual Recognition Output

Analyzed image: https://rukminim1.flixcart.com/image/714/857/k65d18w0/shirt/p/4/t/48-bfrybluesht02ab-being-fab-original-imaecvnxndp3zbdn.jpeg?q=50

Name	Score
sleeve	*0.766*
poplin (fabric)	*0.538*
fabric	*0.538*
long sleeve	*0.538*
mess jacket	*0.5*
coat	*0.505*
overgarment	*0.509*
garment	*0.51*
clothing	*0.6*
ultramarine color	*0.933*
steel blue color	*0.729*

Try again