

Assignment for Backend Developer Position

Write a program that models an e-commerce product:

- Products have name, sale price and market price
- Products may have custom attributes that developers can add attributes to products without modifying the core database.
- Product attributes can be stored in many types of data (date time, string, float, integer, text...)
- Products have images, displayed on product detail page (as gallery) and listing page (using default image)
- A configurable product is a special product that is combination of 2 or more products with different variations (Ex: color, size... etc).

The code must pass the tests:

1. Create a product with name **Iphone X 64Gb Black** price **\$999** (decimal), market price **\$1099**, 3 images, color **Black**, storage **64Gb**, along with some specific attributes: description (long text), origin (text), factory date (date time), weight (float)
2. Create a product with name **Iphone X 128Gb Yellow** price **\$950** (decimal), market price **\$1050**, 3 images, color **Yellow**, storage **128Gb**, along with some specific attributes: description (long text), origin (text), factory date (date time), weight (float)
3. Create a configurable product named **Iphone X** that is combination of the 2 products above.

Notes:

- You should NOT use a full-featured framework, just plain code.
- * No database, user interaction or other functionality is required (so no HTML/CSS/JavaScript); it just needs to be the code which runs and passes the tests.

