MDS Challenge

One of the main challenges of building an ecommerce platform is to keep an accurate list of products and their stocks up to date.
Based on that, we want to build a system that allows us to manage products for an hypothetical ecommerce platform.

For this system a product should have an unique SKU and could be commercialized in multiple countries. Each product can then have different stock per country.

Design and build a system that manages products and their stock with the following requirements:

1. Provide a products API
    a. Get a product by SKU
    b. Consume stock from a product.
        - Should validate if the stock requested is available first, and then decrease it.

2. Provide an API that allows a bulk update of orders from a CSV.
    a. For each CSV line, the stock update could be positive or negative
    b. If a product doesn't exist, it should be created.

If you have any doubt or questions regarding the requirements, feel free to contact us.