In a system that has three main models; Product, Ingredient, and Order.

A Burger (Product) may have several ingredients:

- 150g Beef
- 30g Cheese
- 20g Onion

The system keeps the stock of each of these ingredients stored in the database. You can use the following levels for seeding the database:

- 20kg Beef
- 5kg Cheese
- 1kg Onion

When a customer makes an order that includes a Burger. The system needs to update the stock of each of the ingredients so it reflects the amounts consumed.

Also when any of the ingredients stock level reaches 50%, the system should send an email message to alert the merchant they need to buy more of this ingredient.

Requirements:

First, Write a controller action that:

- 1. Accepts the order details from the request payload.
- 2. Persists the Order in the database.
- 3. Updates the stock of the ingredients.

Second, ensure that en email is sent once the level of any of the ingredients reach below 50%. Only a single email should be sent, further consumption of the same ingredient below 50% shouldn't trigger an email.

Finally, write several test cases that assert the order was correctly stored and the stock was correctly updated.

The incoming payload may look like this: