# **Test**

Limited time: 1 day

### Our story

- There is a shipping service. It helps Vietnamese buy products on Amazon website. After
  a client provides items urls on Amazon, we will have: Amazon price, product weight,
  width, height, depth
- We need to calculate a gross price for an order (contains many items) follow formulas:
  - gross price = item price 1 + item price 2 + ...
  - item price = amazon price + shipping fee
  - shipping fee = max (fee by weight, fee by dimensions)
  - fee by weight = product weight x weight coefficient
  - fee by dimension = width x height x depth x dimension coefficient

#### **Example coefficients:**

• weight coefficient: \$11/kg

dimension coefficient: \$11/m3

# What do you need to do?

- 1. Create the necessary and flexible structure of classes to calculate the gross price for an order.
- 2. Write unit tests for classes

## Requirements:

- 1. No need to implement UI
- 2. Don't use any framework. We are implementing business logic which should be separated from framework (clean architecture)
- 3. Code must be executable without any exceptions
- 4. Code must satisfy **PSR-12**
- Classes must satisfy S.O.L.I.D principles and should be auto loaded with autoloading standard PSR-4
- 6. Coefficients are configurable
- 7. Use PHP7 if possible
- 8. Shipping fee must be flexible. For example, shipping fee for a smart phone (300g) must be less than a diamond ring (10g) so we need be add *fee by product type* someday
  - shipping fee = max (fee by weight, fee by dimensions, fee by product type)
  - o How do we add fee by product type without change shipping fee code?
  - o No need to implement fee by product type