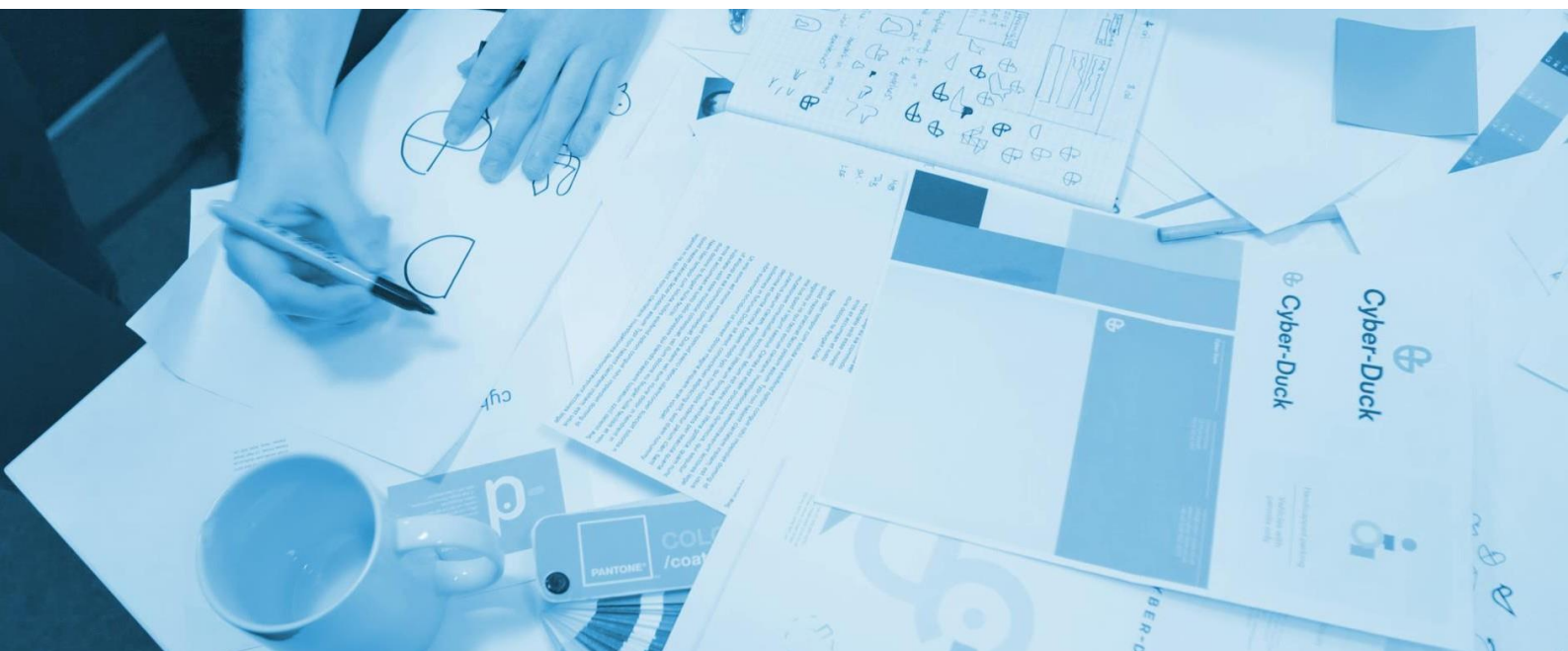


# LARAVEL TASK v2.5

*A chance to show the Cyber-Duck team what you are made of.*



## Introduction

If you are reading this document, it's because you have moved forward onto the next step of our recruitment process. Congratulations!

To make things more interesting and exciting, we want to challenge you to this Laravel challenge. It will help you to demonstrate a wide range of skills and competencies. If you have any questions about the brief, please do not hesitate to contact our HR advisor directly by email.

# Deliverables

Complete the following test in Laravel (2 parts) – Calculate and record selling coffee product sales. The quality of the deliverable will be considered, e.g. Validation, Automated Tests, Seeders, etc.

At each part you can assume you have deployed a working release to the customer, and data will already be on the system when you get to the next part.

Once you are finish, please submit the task via a GitHub repository.

## Setup and instructions

- Download the following repository already setup for you:  
<https://github.com/Cyber-Duck/laravel-test> - **(We suggest the simplest way of setting up with `php artisan serve`, but feel free to use any setup you feel comfortable with)**
- Read all the md files present on the readme.md for setup (if you need to update setup or other parts feel free to do it and let us know)
- After you login the initial page to start Part 1 is ready for you, also a user is seeded.
- Please commit often (at least once at the end of each part). We want to see how you deliver ongoing value to the product.
- You can attach notes and your thought and decision process on each part of the task
- Once you are finished, please commit the task via a GitHub repository
- Feel free to tell us how we can make this task better for future candidates, enjoy!

# Part 1

Create the following user journey for our Gold coffee product calculation based on the wireframes and requirements below:

Coffee Shop Sales System

https://coffee-shop.localhost/sales

### New Sales

Quantity  Unit Cost (£)  Selling Price £20.00

### Previous Sales

Quantity	Unit Cost	Selling Price
1	£10.00	£23.33

The Gold coffee product is usually sold to customers by phone orders so we would expect the calculation to be done quickly for our customers.

The user story for this functionality is:

*As a coffee salesman*

*I want to generate the selling price for the Gold coffee product*

*So that I can inform the customer what the selling price is and record the sale.*

Customer service will input:

- **Quantity** of coffee bags the client wants to buy
- **Unit Cost** - which is communicated to the operator in a daily basis based on

coffee beans value The formula to calculate the selling price is as follows:

- $\text{Cost} = \text{Quantity} * \text{Unit Cost}$
- $\text{Selling Price} = (\text{Cost} / (1 - \{\text{Profit-margin}\})) + \{\text{Shipping-cost}\}$

Data required for calculation:

- **Quantity** will be provided by the coffee salesman

- **Unit cost** will be provided by the coffee salesman in pounds
- **Profit Margin** is 25% which in the calculation will be 0.25
- **Shipping cost** is £10.00
- **Cost and Selling Price** are calculated

Examples provided below:

Quantity	Unit Cost	Selling Price
1	£10.00	£23.34
2	£20.50	£64.67
5	£12.00	£90.00

# Part 2

The company has decided to launch a new coffee product

`Arabic coffee`. The user story for this functionality is:

*As a coffee salesman*

*I want to generate the selling price for the Gold coffee product*

*So that I can inform the customer what the selling price is and record the sale.*


The selling price calculations are the same as part 1, for this product the profit margin is 15%. The wireframe for reference can be found below:

Coffee Shop Sales System

X

https://coffee-shop.localhost/sales

Q

New  Sales

Product

Quantity

Unit Cost (£)

Selling Price

Record Sale

Gold coffee

£20.00

Gold coffee

Arabic coffe

Previous Sales

Product	Quantity	Unit Cost	Selling Price	Sold at
Arabic coffee	2	£20.50	£58.24	2022-01-02 11:10
Gold coffee	1	£10.00	£23.33	2022-01-01 10:05

Examples below:

Quantity	Unit Cost	Selling Price
1	£10.00	£21.77
2	£20.50	£58.24
5	£12.00	£80.59