

Competence Development

Laravel Task v1.0

Introduction

Welcome to the next phase of our recruitment process. Congratulations on advancing to this stage! We're excited to present you with the Laravel challenge, an opportunity for you to demonstrate your skills and competencies. If you have any questions about the task, please don't hesitate to reach out to our team via email. We look forward to seeing your work!

You are free to spend as long as you like on this task, we are interested in how you work and how you tackle tasks in conjunction with your technical skills.

Deliverables

Please complete the following test in Laravel (split into 2 parts) – Calculate and record sales of coffee products.

Quality of the deliverable will be assessed, including aspects such as validation, automated tests, seeders, etc.

For each part, assume a functional release has been deployed to the customer, and data will already exist in the system for subsequent parts.

Once completed, please submit the task via a GitHub repository.

Instructions:

Create a blank Laravel repository and choose between utilising `php artisan serve` or setting up a Docker / docker-compose environment.

Upon logging in, the initial page for Part 1 will be ready, and a user will be seeded in the system.

Commit your changes frequently, ideally at least once at the end of each part. This allows us to observe your continuous delivery of value to the product.

You're encouraged to include notes detailing your thought process and decision-making throughout each part of the task.

Once completed, commit the task to a GitHub repository.

Please share any suggestions for improving this task for future candidates. Enjoy the process!

Part 1

Develop a user journey for calculating the selling price of our Gold coffee product, guided by the wireframes and requirements provided.

The wireframe shows a web browser window titled "Coffee Shop Sales System". The address bar contains "https://coffee-shop.localhost/sales". The main content area is divided into two sections: "New Sales" and "Previous Sales".

New Sales

Quantity: Unit Cost (£): Selling Price: £20.00

Previous Sales

Quantity	Unit Cost	Selling Price
1	£10.00	£23.33

Given that Gold coffee is primarily sold via phone orders, swift calculation is crucial to meet customer expectations. The objective is to enable coffee salesmen to efficiently generate selling prices, inform customers, and record sales.

User Story

As a coffee salesman,

I want to promptly compute the selling price of the Gold coffee product

So that I can inform customers of the price and capture sales data effectively.

Customer Service Input

Customer service personnel will input:

- The **quantity** of coffee bags requested by the client.
- The **unit cost**, communicated daily to operators based on the current value of coffee beans.

To calculate the selling price, adhere to the following formula:

Cost: Quantity multiplied by Unit Cost

Selling Price: $[(\text{Cost} / (1 - \{\text{Profit-margin}\})) + \{\text{Shipping-cost}\}]$

Data Needed for Calculation:

Quantity: Provided by the coffee salesman

Unit cost: Provided by the coffee salesman in pounds

Profit Margin: Set at 25%, denoted as 0.25 in calculations

Shipping Cost: Fixed at £10.00

Both **Cost** and **Selling Price** are derived through these calculations.

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

User Story

*As a coffee salesman,
I want to calculate the selling price for the “Arabic coffee” product,
So that I can inform customers of the selling price and log the sale accordingly*

The selling price calculations remain consistent with part 1. However, for this product, the profit margin is set at 15%.

Reference wireframes are provided below for guidance.

The wireframe shows a web browser window titled "Coffee Shop Sales System" with the URL "https://coffee-shop.localhost/sales". The main content area is divided into two sections: "New Sales" and "Previous Sales".

New Sales

Product: Gold coffee (dropdown menu with options: Gold coffee, Arabic coffe)
Quantity: [input field]
Unit Cost (£): [input field]
Selling Price: £20.00
Record Sale: [button]

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