

The assignment consists of two parts.

## **I. Create the basic structure of a web shop.**

This part of the assignment **does not require** any code to be written. The requirements here are to provide your approach to building the architecture of an online shop.

- File and folder structure
- Separation of business logic throughout the project
- Any design pattern choices

It should contain the basic building blocks of a web store: Products, Categories, Customers, Orders, Shipping Providers, Payment Processors

You may choose to do this using any JavaScript framework of your choice or design the structure independent from any framework.

Please provide a short explanation of your architecture/design choices.

Please provide the solution as an actual folder containing the structure you created. This can be a link to a repository or an attachment to an email.

## **II. Create a basic implementation that would be needed to handle multiple payment processing providers.**

This part of the assignment **requires** code to be written. The requirements here are to provide your approach to handling multiple payment processing services within your app.

Consider the following scenario:

- Your web store needs to be able to handle payments using three different payment services: Stripe, Braintree and PayPal
- The customer can choose any of the providers during checkout

Write code that would handle the payment processing part of the order based on the customer choice. You **do not** need to write code that uses the actual 3rd party APIs, just the code that wraps around the external services.

**IMPORTANT NOTE:** You should be able to add or remove payment options in the future, without the need to change the main order processing code logic.

The code doesn't need to run or be overly complicated, it just needs to showcase your design pattern choices for this particular situation.