Design Checkout service

You are part of the engineering team at an e-commerce company that's moving from a monolith shop system to a headless and microservices based e-commerce architecture. You are asked to design a **backend service** for "Checkouts" that's accessible through **APIs ONLY**.

Checkout is a process that begins when the Customer has selected a set of items to buy (added to a cart). To complete an order, the customer goes through the checkout process to specify address, shipping method and a payment method. Once the payment is collected, checkout turns into an order.

Goal of the exercise is to understand how you approach designing a backend service to orchestrate a complex business process/feature before actually developing, quality of the final code, infrastructure skills to deploy the service (optional) and whether you follow API first principles.

Main Task

- Design and Develop Checkout microservice MVP
- Submit the code

Nice to Have (Optional) Tasks

- Short document/notes describing service/scope/approach/assumptions
- Deploy a containerised application