Title: Shopping Cart Microservice

Description: Develop a simple RESTful API for a shopping cart using Java. The API will manage the cart items for an e-commerce platform and calculate the total price at checkout.

Requirements

- 1. API Functions:
 - /cart/items to add items to the cart.
 - /cart/items/{itemId} to remove items from the cart.
 - /cart/checkout to calculate and return the total price of items in the

cart.

- 2. Item Structure:
 - Each item should have an id, name, price, and quantity.
- 3. Data Storage:
 - Use an in-memory data structure to store cart items; no need for a

database.

- Validation:
 - Ensure that item quantities and prices are always positive integers.
- 5. Error Handling:
 - Properly handle cases like deleting an item that doesn't exist.

Coding Practices

- Follow clean code principles.
- Use proper naming conventions and keep methods small and focused.
- Include comments where necessary to explain the intention of the code

blocks.

Hosting and Submission

Host the project on GitHub and share it within the specified time limit.

Time Limit

The task should not take more than 2 hours to complete.

Evaluation Criteria

- Functionality: The API meets all the functional requirements.
- Code Quality: The code is clean, well-organized, and easy to read.
- Error Handling: The application gracefully handles and responds to error scenarios.

NOTE: Please refrain from using ChatGPT or similar AI tools to generate code for this assessment. We are looking to evaluate your own coding abilities and problem-solving skills. Submissions identified to have been generated by AI tools will lead to disqualification from the recruitment process.