Position: Front-end React Developer

Assignment Title: Checkout Page Development

Assignment Overview:
Your task is to design and implement a responsive checkout page for an e-commerce website using React. The page should allow users to click on the checkout button, which will trigger a POST request to the backend with specific data. This assignment is designed to evaluate your skills in React development, state management, API integration, testing, and front-end design.

Instructions:

1. Scenario/Problem Statement: You are building a checkout page for an e-commerce website. The page should include a list of selected items, a total price, and a "Checkout" button. When the user clicks the "Checkout" button, it should send a POST request to the backend with the selected items' details.
Object :

```
{
  "order": {
    "items": [
      {
        "productId": "product_id_1",
        "name": "Product 1",
        "quantity": 2,
        "price": 19.99
      },
      {
        "productId": "product_id_2",
        "name": "Product 2",
        "quantity": 1,
        "price": 29.99
      }
    ],
    "totalPrice": 69.97
  },
  "customer": {
    "name": "John Doe",
    "email": "johndoe@example.com",
    "address": "123 Main St, Cityville, USA"
  },
  "paymentMethod": {
    "type": "credit_card",
    "cardNumber": "**** **** **** 1234",
    "expirationDate": "12/25",
    "cvv": "123"
  }
}
```

Example : https://checkout.stripe.dev/preview

2. Technical Requirements:

  - Use React for the front-end development.
  - Utilize the `tanstack/query` library for making the POST request to the backend (you can simulate the POST request).
  - Implement end-to-end testing using Cypress to ensure the functionality works as expected.
  - Handle any side behavior or error responses that may come from the server.
  - Utilize the Tailwind CSS framework for styling.
  - Use either Vite.js or next js
  - Write the application in TypeScript.

3. Deliverables: Please submit a GitHub repository containing your React project code. Ensure the README file provides clear instructions on how to set up and run the application locally.

4. Constraints: You have 24 hours to complete this assignment. Focus on creating a functional and well-designed checkout page. You do not need to create a full backend for this assignment; you can simulate the backend API calls.

5. Evaluation Criteria: Your assignment will be evaluated based on the following criteria:
  - Design: How well you design the checkout page, including user interface and user experience.
  - Code Quality: The quality and maintainability of your React code, including proper component structure and clean TypeScript code.
  - Understanding: Your ability to understand and meet the requirements of the assignment, including the use of `tanstack/query` and Cypress for testing.

Submission Instructions: Please email the link to your GitHub repository to ethan@mamane.tech

Evaluation Process: We will review your code, run the provided tests, and assess the design and functionality. If necessary, we may follow up with questions about your implementation.