

## Next.js Developer Interview Assignment: Mini Billing System

### Objective:

Build a simple **Invoice Management System** using **Next.js**. This exercise is designed to evaluate your ability to develop a basic full-stack application with Next.js.

### Requirements:

#### 1. Invoice Creation

- Build a form to create a single invoice with the following fields:
  - Client name.
  - List of items (description, quantity, unit price).
  - Automatically calculate the total amount as the user fills the form.
- Submit the invoice to a backend API route to save it.

#### 2. View Invoice List

- Display a paginated list of invoices on a separate page.
- Each invoice should show:
  - Client name.
  - Total amount.
  - Creation date.
- No need for search or filtering.

#### 3. Basic Data Handling

- Store the invoices in memory (server-side state) for simplicity.
- Use Next.js API routes for the following actions:
  - Create a new invoice.
  - Retrieve the list of invoices.

#### 4. Responsive UI

- Ensure the app works well on both desktop and mobile screens.

### Technical Requirements:

- **Frontend:** Next.js with CSS (can use Tailwind CSS or plain CSS for styling).
- **Backend:** Next.js API routes.
- **State:** Simple in-memory state or a mock data store (no database required).
- **Design:** Keep it simple but functional.

**Submission Guidelines:**

1. Submit your code in a GitHub repository.
2. Include a **README** with:
  - Setup instructions.
  - A brief explanation of your approach.
3. Estimated time: 2–3 hours.

**Evaluation Criteria:**

- **Core Functionality:** Does the app meet the basic requirements?
- **Code Quality:** Is the code structured, modular, and readable?

**Optional Bonus (If Time Permits):**

- Add a “Delete Invoice” button to remove an invoice from the list.
- Implement basic client-side validation for the form (e.g., required fields, positive numbers for quantity and unit price).

Would you like me to refine this further or add example data for testing?