Xynerotech Backend Internship - Week 1 Task

📌 **Theme:** Build a Basic CRUD API
Product: Apkadr.in – Doctor Appointment Booking Platform

🎯 **Goal for This Week:**
Learn how to create a backend project with simple CRUD operations (Create, Read, Update, Delete) using APIs for a doctor booking system.

📝 **Tasks:**

1. Set Up Your Project

- Choose any language (Node.js, Python, PHP, etc.)
- Set up a simple server (e.g., Express.js for Node.js)
- Create a folder structure for your project

✎ **What to Submit:** GitHub link or Google Drive folder with your project

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2. Build CRUD API for Doctor Management Create APIs to:

- **Create a Doctor** (POST /doctors)
- **Get All Doctors** (GET /doctors)
- **Get a Doctor by ID** (GET /doctors/:id)
- **Update a Doctor** (PUT /doctors/:id)
- **Delete a Doctor** (DELETE /doctors/:id)

Use in-memory array or JSON file as your database (optional: use MongoDB or SQLite if you're confident).

✎ **What to Submit:**

- Working API routes
- Sample JSON structure for doctor data
- Postman collection (optional but preferred)

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3. Add Basic Validation

- Doctor must have name, specialization, and contact
- Return error message if required fields are missing

📎 **What to Submit:** Code with validation and comments

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4. Bonus Task (Optional)

- Add Appointment CRUD APIs similar to doctors

📎 **What to Submit:** Separate folder or file for appointments if done

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✅ **Final Checklist:**

- Project folder with working CRUD API
- Doctor APIs tested and working
- Validation implemented
- Readme file explaining setup and how to test
- (Optional) Appointment APIs

🧭 **Tips:**

- Keep the code clean and readable
- Use Postman to test your routes
- Comment your code to explain logic

🙌 **You're doing great!**
Ask your mentor if you face any issue while setting up or testing.