	Must know	Hiring at HabotConnect is a demanding process. Typically 1 out of 180+ candidates are accepted. You must show that you know your work. If you wish to be a HaboTech, you must know its: 1. Values 2. Leadership Principles
	Project Context	Build a basic REST API to manage employees in a company, focusing on CRUD operations, RESTful principles, and authentication.
	You Will Be Assessed On	1. Adherence to RESTful principles: Proper use of HTTP methods and status codes. 2. Code Quality and Organization: Clean, modular code with appropriate validation and error handling. 3. Testing: Simple unit tests for each endpoint. 4. Documentation: Clear API documentation with instructions for running the project locally. 5. Authentication and Security: Proper implementation of token-based authentication.
	You are Expected To Do	**Objective**: Build a basic REST API to manage employees in a company, focusing on CRUD operations, RESTful principles, and authentication. **Requirements** 1. **API Endpoints:** ○ **Create an Employee**: POST /api/employees/ ○ **List all Employees**: GET /api/employees/ ○ **Retrieve a Single Employee**: GET /api/employees/{id}/ ○ **Update an Employee**: PUT /api/employees/{id}/ ○ **Delete an Employee**: DELETE /api/employees/{id}/ 2. **Employee Model**: ○ id: Unique identifier (auto-generated) ○ name: String, required ○ email: Email field, required and unique ○ department: String, optional (e.g., "HR", "Engineering", "Sales") ○ role: String, optional (e.g., "Manager", "Developer", "Analyst") ○ date_joined: Date, auto-generated on creation 3. **Additional Requirements:**

		○ **Validation**: Ensure `email` is unique and valid. `name` should not be empty. ○ **Error Handling**: Return appropriate HTTP status codes for different responses: ■ `201 Created` for successful creation. ■ `404 Not Found` for invalid employee IDs. ■ `400 Bad Request` for validation errors. ■ `204 No Content` for successful deletion. ○ **Filtering**: Allow filtering of employees by `department` and `role` (e.g., `GET /api/employees/?department=HR`). ○ **Pagination**: Limit results per page to 10 employees with pagination support (e.g., `GET /api/employees/?page=2`). ○ **Authentication**: Use token-based authentication (JWT or simple token) to secure the endpoints. Only authenticated users should access these endpoints. 4. **Testing**: ○ Write basic tests to cover each endpoint and edge cases, like attempting to create an employee with an existing email.
The Presentation Is To Be	Instructions to complete **You are required to:** **Intro:** Brief overview of the API and its purpose (CRUD for employee management). **Authentication:** - Show how to authenticate with a `POST` request for a token. - Add the token to Postman's Authorization header for secure requests. **Endpoint Demos:** - Create Employee (`POST /api/employees/`): Demonstrate creating an employee with valid data and handling a duplicate email (400 error). - List Employees (`GET /api/employees/`): Show all employees with pagination, plus filtering by department or role. - Retrieve Employee (`GET /api/employees/{id}/`): Fetch a single employee by ID, showing a successful request and a 404 error for non-existent IDs. - Update Employee (`PUT /api/employees/{id}/`): Modify an employee's details and verify the updated response.

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● Delete Employee (`DELETE /api/employees/{id}/`): Delete an employee and confirm with a `204 No Content` status.

Summary:

● Brief recap of the CRUD operations.
● Highlight RESTful practices, error handling, and Postman's ease for testing.

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<td>**Suggestions**</td>
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● The project should take you 4 to 8 hrs to complete.
● You are expected to use outside resources to help you understand what is required
● Use this opportunity to find out whether you want to work with HabotConnect
● Show us that you can do what is required by us without supervision
● No company resource person will be available

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<td>**When**</td>
<td>You will present your completed project during the Project interview</td>
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<td>**Where**</td>
<td>Video call presentation via Google Meet. You will receive a calendar invite with the date and time from our HR team members.</td>
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<td>**Who**</td>
<td>You will be presenting to the panel members which may include CEO, Team Lead and HR team members</td>
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<td>**How**</td>
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● It is assumed that you will let us know if you are unable to do the required presentation and that you no longer wish to continue with the interview process at HabotConnect.

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<td>**Additional HabotConnect Resource links**</td>
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The Leadership Principles:
📕 Leadership Principles -HAW 3 2025-271124.pdf

HabotConnect Values:
📕 Habot- Values-HAW3-291124.pdf

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