# Simple Node.js REST API (No Routes Folder)

## server.js

const express = require('express');  
const app = express();  
  
app.use(express.json());  
  
let users = [  
 { id: 1, name: "Alice", email: "alice@example.com" },  
 { id: 2, name: "Bob", email: "bob@example.com" }  
];  
  
app.get('/api/users', (req, res) => {  
 res.json(users);  
});  
  
app.get('/api/users/:id', (req, res) => {  
 const user = users.find(u => u.id === parseInt(req.params.id));  
 if (!user) return res.status(404).send("User not found");  
 res.json(user);  
});  
  
app.post('/api/users', (req, res) => {  
 const { name, email } = req.body;  
 const newUser = {  
 id: users.length + 1,  
 name,  
 email  
 };  
 users.push(newUser);  
 res.status(201).json(newUser);  
});  
  
app.put('/api/users/:id', (req, res) => {  
 const user = users.find(u => u.id === parseInt(req.params.id));  
 if (!user) return res.status(404).send("User not found");  
  
 const { name, email } = req.body;  
 user.name = name || user.name;  
 user.email = email || user.email;  
  
 res.json(user);  
});  
  
app.delete('/api/users/:id', (req, res) => {  
 const index = users.findIndex(u => u.id === parseInt(req.params.id));  
 if (index === -1) return res.status(404).send("User not found");  
  
 const deletedUser = users.splice(index, 1);  
 res.json(deletedUser[0]);  
});  
  
const PORT = 3000;  
app.listen(PORT, () => {  
 console.log(`Server is running on port ${PORT}`);  
});

# How to Run the Simple Node.js REST API

## Step 1: Install Node.js

Download and install Node.js from the official website:  
https://nodejs.org

Verify installation using the terminal/command prompt:

node -v  
npm -v

## Step 2: Set Up the Project

1. Create a new folder:

mkdir simple-node-api

cd simple-node-api

2. Initialize Node.js project:

npm init -y

3. Install Express:

npm install express

## Step 3: Create server.js File

Open your text editor or IDE (e.g., VS Code), create a file named server.js and paste the API code into it.

## Step 4: Run the Server

In the terminal, run the following command:

node server.js

You should see output like:

Server is running on port 3000

## Step 5: Test the API

You can use Postman or your browser to test the endpoints.  
Examples:

GET all users:  
http://localhost:3000/api/users

GET user by ID:  
http://localhost:3000/api/users/1

POST, PUT, DELETE methods should be tested using Postman.

## Sample POST Body (JSON)

{  
 "name": "Priya",  
 "email": "priya@example.com"  
}

Set header: Content-Type = application/json