Nodejs Course Lab 1

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1- Create Express. js Web Api Project
 2- Create this file containing Sample Data (data. js)
const products = [
  { id: 1, name: "iPhone 14", price: 999, categoryId: 1 },
  { id: 2, name: "Samsung Galaxy S22", price: 899, categoryId: 1 },
 { id: 3, name: "MacBook Pro", price: 1999, categoryId: 2 }
];
const categories = [
 { id: 1, name: "Phones" },
 { id: 2, name: "Laptops" }
];
const users = [
  { id: 1, name: "Alice", email: "alice@example.com" },
 { id: 2, name: "Bob", email: "bob@example.com" }
];
const cart = [
  { userId: 1, items: [{ productId: 1, quantity: 2 }] },
  { userId: 2, items: [] }
];
module.exports = { products, categories, users, cart };
 3- Implement the following Endpoints
PRODUCTS
GET /api/products - Get all products
GET /api/products/:id - Get product by ID
GET /api/products/search?keyword=mac&minPrice=1000 - Search products
by query
POST /api/products - Add a new product (JSON body)
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PUT /api/products/:id - Replace product by ID
PATCH /api/products/:id - Update part of product (e.g., price)
DELETE /api/products/:id - Remove product
CATEGORIES
GET /api/categories - Get all categories
GET /api/categories/:id/products - Get all products in a category
POST /api/categories - Add new category
USERS
GET /api/users - List all users
GET /api/users/:id - Get user by ID
POST /api/users - Add a new user
PUT /api/users/:id - Replace a user
DELETE /api/users/:id - Delete a user
CART
GET /api/cart/:userId - Get cart items for a user
POST /api/cart/:userId/items - Add product to user's cart (JSON body)
PATCH /api/cart/:userId/items/:productId - Update quantity
DELETE /api/cart/:userId/items/:productId - Remove item from cart
DELETE /api/cart/:userId - Clear all cart items for user
4- Organize your code using Controllers
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