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EXAMPLE OF MICROSERVICES

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SCENARIO: E-COMMERCE PLATFORM

IMAGINE YOU'RE BUILDING AN E-COMMERCE PLATFORM. INSTEAD OF CREATING A SINGLE MONOLITHIC APPLICATION, YOU CAN BREAK IT DOWN INTO SMALLER, INDEPENDENT SERVICES, EACH RESPONSIBLE FOR A SPECIFIC FUNCTIONALITY.

Microservices Example:

1. User Service:

- Functionality: Manages user registration, authentication, and profile management.
- Tech Stack: Java with Spring Boot, MySQL for data storage.
- Endpoints:
 - POST /users/register: Register a new user.
 - POST /users/login: Authenticate a user.
 - GET /users/{id}: Fetch user details.



2. Product Service:

- **Functionality:** Manages product catalog, including adding, updating, and retrieving product details.
- **Tech Stack:** Node.js with Express, MongoDB for storing product information.
- **Endpoints:**
 1. POST /products: Add a new product.
 2. GET /products/{id}: Fetch product details.
 3. GET /products: List all products.



3. Order Service:

- **Functionality:** Handles order creation, updating, and tracking.
- **Tech Stack:** Python with Flask, PostgreSQL for order data.
- **Endpoints:**
 1. POST /orders: Create a new order.
 2. GET /orders/{id}: Fetch order details.
 3. PUT /orders/{id}: Update order status.



4. Payment Service:

- **Functionality:** Processes payments for orders.
- **Tech Stack:** Ruby on Rails, Stripe API for payment processing.
- **Endpoints:**
 1. POST /payments: Process a payment for an order.
 2. GET /payments/{id}: Check payment status.



5. Notification Service:

- **Functionality:** Sends notifications to users via email or SMS.
- **Tech Stack:** Java with Spring Boot, Twilio API for SMS, SendGrid for emails.
- **Endpoints:**
 1. POST /notifications/email: Send an email notification.
 2. POST /notifications/sms: Send an SMS notification.



Benefits of Microservices:

- Scalability
- Flexibility in technology
- Isolation of failures
- Ease of deployment.



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