| **Service** | **Responsibilities** | **Stack** |
| --- | --- | --- |
| **Auth Service** | Register/Login, JWT tokens, role-based access | Spring Boot + PostgreSQL |
| **Product Service** | Manage products, categories, images | Spring Boot + PostgreSQL |
| **Cart Service** | User carts, add/remove/update items | Spring Boot + Redis (cache) |
| **Order Service** | Order creation, status updates, history | Spring Boot + PostgreSQL |
| **Payment Service** | Simulated payment processing | Spring Boot + (mock logic) |
| **Notification** | Email/SMS (optional using RabbitMQ/Kafka) | Spring Boot + Mailgun API |
| **Gateway** | Single entry point, routes to services | Spring Cloud Gateway |
| **Config Server** | Centralized configs for all services | Spring Cloud Config |
| **Discovery** | Service registry (optional) | Eureka or Consul |
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