

Project Structure:

Service Modules:

- Each microservice is its own module, containing the necessary code and resources.
- Example:

```
/services
  /user-service
  /product-service
  /order-service
  ...
```

Common Modules:

- Shared code and resources that can be reused across multiple services.
- Example:

```
/common
  /utils
  /models
  ...
```

API Gateway:

- A central entry point that routes requests to the appropriate microservice.
- Example:

```
/api-gateway
```

Configuration:

- Configuration files for each microservice.
- Example:

```
/config
  /user-service
  /product-service
  /order-service
  ...
```

Database:

- Database scripts, migrations, and configurations.
- Example:

```
/database
  /migrations
  /seeds
```

Testing:

- Unit tests, integration tests, and end-to-end tests.
- Example:

```
/tests
  /unit
  /integration
  /e2e
```

Documentation:

- API documentation, service documentation, and architecture documentation.
- Example:

```
/docs
```

Infrastructure as Code (IaC):

- Scripts or configurations for setting up and managing infrastructure.
- Example:

/infrastructure

Deployment:

- Deployment scripts, container configurations (Dockerfiles), and orchestration files (e.g., Kubernetes YAML files).
- Example:

/deployment

Monitoring and Logging:

- Configurations and scripts for monitoring and logging services.
- Example:

/grafana

/logging

/logstash

/kibana

Continuous Integration/Continuous Deployment (CI/CD):

- CI/CD pipeline configurations.
- Example:

/ci-cd

Utilities:

- Scripts and tools that aid in development, testing, and maintenance.
- Example

/utils

Technology-Specific Structure:

- **Java/Spring Boot Example:**
- `bash`

/services

/user-service

/src

/pom.xml

/common

/utils

/api-gateway

/src

/pom.xml

Node.js/Express Example:

- /services
 - /user-service
 - /src
 - /package.json
- /common
 - /utils
- /api-gateway
 - /src
 - /package.json

Python/Django Example:

- /services
 - /user-service
 - /src
 - /requirements.txt
- /common
 - /utils
- /api-gateway
 - /src
 - /requirements.txt

.net core

- /services
 - /user-serivces
 - /src
 - /project.csproj
- /common
 - /utils
- /api-gateway
 - /src
 - /project.csproj