Spring Boot - One Page Notes Template

# Benefit

## 📘 Theory

• Key points and short explanation about Benefit

## 💻 Programs

Program 1:  
```java  
// Example code here  
```

Program 2:  
```java  
// Example code here  
```

## 🌍 Real-World Example

Explain how Benefit is used in real-world projects.

## ❓ Interview Questions

1. Sample interview question about Benefit

2. Another common interview question about Benefit

# Project Structure

## 📘 Theory

• Key points and short explanation about Project Structure

## 💻 Programs

Program 1:  
```java  
// Example code here  
```

Program 2:  
```java  
// Example code here  
```

## 🌍 Real-World Example

Explain how Project Structure is used in real-world projects.

## ❓ Interview Questions

1. Sample interview question about Project Structure

2. Another common interview question about Project Structure

# Annotation

## 📘 Theory

• Key points and short explanation about Annotation

## 💻 Programs

Program 1:  
```java  
// Example code here  
```

Program 2:  
```java  
// Example code here  
```

## 🌍 Real-World Example

Explain how Annotation is used in real-world projects.

## ❓ Interview Questions

1. Sample interview question about Annotation

2. Another common interview question about Annotation

# Dependency Injection

## 📘 Theory

• Key points and short explanation about Dependency Injection

## 💻 Programs

Program 1:  
```java  
// Example code here  
```

Program 2:  
```java  
// Example code here  
```

## 🌍 Real-World Example

Explain how Dependency Injection is used in real-world projects.

## ❓ Interview Questions

1. Sample interview question about Dependency Injection

2. Another common interview question about Dependency Injection

# Spring

## 📘 Theory

• Key points and short explanation about Spring

## 💻 Programs

Program 1:  
```java  
// Example code here  
```

Program 2:  
```java  
// Example code here  
```

## 🌍 Real-World Example

Explain how Spring is used in real-world projects.

## ❓ Interview Questions

1. Sample interview question about Spring

2. Another common interview question about Spring

# RESTful API

## 📘 Theory

• Key points and short explanation about RESTful API

## 💻 Programs

Program 1:  
```java  
// Example code here  
```

Program 2:  
```java  
// Example code here  
```

## 🌍 Real-World Example

Explain how RESTful API is used in real-world projects.

## ❓ Interview Questions

1. Sample interview question about RESTful API

2. Another common interview question about RESTful API

# Database Integration

## 📘 Theory

• Key points and short explanation about Database Integration

## 💻 Programs

Program 1:  
```java  
// Example code here  
```

Program 2:  
```java  
// Example code here  
```

## 🌍 Real-World Example

Explain how Database Integration is used in real-world projects.

## ❓ Interview Questions

1. Sample interview question about Database Integration

2. Another common interview question about Database Integration

# Security

## 📘 Theory

• Key points and short explanation about Security

## 💻 Programs

Program 1:  
```java  
// Example code here  
```

Program 2:  
```java  
// Example code here  
```

## 🌍 Real-World Example

Explain how Security is used in real-world projects.

## ❓ Interview Questions

1. Sample interview question about Security

2. Another common interview question about Security

# Testing

## 📘 Theory

• Key points and short explanation about Testing

## 💻 Programs

Program 1:  
```java  
// Example code here  
```

Program 2:  
```java  
// Example code here  
```

## 🌍 Real-World Example

Explain how Testing is used in real-world projects.

## ❓ Interview Questions

1. Sample interview question about Testing

2. Another common interview question about Testing

# Deployment

## 📘 Theory

• Key points and short explanation about Deployment

## 💻 Programs

Program 1:  
```java  
// Example code here  
```

Program 2:  
```java  
// Example code here  
```

## 🌍 Real-World Example

Explain how Deployment is used in real-world projects.

## ❓ Interview Questions

1. Sample interview question about Deployment

2. Another common interview question about Deployment

# Microservices Architecture

## 📘 Theory

• Key points and short explanation about Microservices Architecture

## 💻 Programs

Program 1:  
```java  
// Example code here  
```

Program 2:  
```java  
// Example code here  
```

## 🌍 Real-World Example

Explain how Microservices Architecture is used in real-world projects.

## ❓ Interview Questions

1. Sample interview question about Microservices Architecture

2. Another common interview question about Microservices Architecture

# API Gateway

## 📘 Theory

• Key points and short explanation about API Gateway

## 💻 Programs

Program 1:  
```java  
// Example code here  
```

Program 2:  
```java  
// Example code here  
```

## 🌍 Real-World Example

Explain how API Gateway is used in real-world projects.

## ❓ Interview Questions

1. Sample interview question about API Gateway

2. Another common interview question about API Gateway

# Service Discovery

## 📘 Theory

• Key points and short explanation about Service Discovery

## 💻 Programs

Program 1:  
```java  
// Example code here  
```

Program 2:  
```java  
// Example code here  
```

## 🌍 Real-World Example

Explain how Service Discovery is used in real-world projects.

## ❓ Interview Questions

1. Sample interview question about Service Discovery

2. Another common interview question about Service Discovery

# Auto Configuration

## 📘 Theory

• Key points and short explanation about Auto Configuration

## 💻 Programs

Program 1:  
```java  
// Example code here  
```

Program 2:  
```java  
// Example code here  
```

## 🌍 Real-World Example

Explain how Auto Configuration is used in real-world projects.

## ❓ Interview Questions

1. Sample interview question about Auto Configuration

2. Another common interview question about Auto Configuration

# Spring MVC

## 📘 Theory

• Key points and short explanation about Spring MVC

## 💻 Programs

Program 1:  
```java  
// Example code here  
```

Program 2:  
```java  
// Example code here  
```

## 🌍 Real-World Example

Explain how Spring MVC is used in real-world projects.

## ❓ Interview Questions

1. Sample interview question about Spring MVC

2. Another common interview question about Spring MVC

# Handling Form and Validation

## 📘 Theory

• Key points and short explanation about Handling Form and Validation

## 💻 Programs

Program 1:  
```java  
// Example code here  
```

Program 2:  
```java  
// Example code here  
```

## 🌍 Real-World Example

Explain how Handling Form and Validation is used in real-world projects.

## ❓ Interview Questions

1. Sample interview question about Handling Form and Validation

2. Another common interview question about Handling Form and Validation

# Thymeleaf and Other Template Engine

## 📘 Theory

• Key points and short explanation about Thymeleaf and Other Template Engine

## 💻 Programs

Program 1:  
```java  
// Example code here  
```

Program 2:  
```java  
// Example code here  
```

## 🌍 Real-World Example

Explain how Thymeleaf and Other Template Engine is used in real-world projects.

## ❓ Interview Questions

1. Sample interview question about Thymeleaf and Other Template Engine

2. Another common interview question about Thymeleaf and Other Template Engine

# Spring Security

## 📘 Theory

• Key points and short explanation about Spring Security

## 💻 Programs

Program 1:  
```java  
// Example code here  
```

Program 2:  
```java  
// Example code here  
```

## 🌍 Real-World Example

Explain how Spring Security is used in real-world projects.

## ❓ Interview Questions

1. Sample interview question about Spring Security

2. Another common interview question about Spring Security

# Authentication and Authorization

## 📘 Theory

• Key points and short explanation about Authentication and Authorization

## 💻 Programs

Program 1:  
```java  
// Example code here  
```

Program 2:  
```java  
// Example code here  
```

## 🌍 Real-World Example

Explain how Authentication and Authorization is used in real-world projects.

## ❓ Interview Questions

1. Sample interview question about Authentication and Authorization

2. Another common interview question about Authentication and Authorization

# OAuth2 and JWT

## 📘 Theory

• Key points and short explanation about OAuth2 and JWT

## 💻 Programs

Program 1:  
```java  
// Example code here  
```

Program 2:  
```java  
// Example code here  
```

## 🌍 Real-World Example

Explain how OAuth2 and JWT is used in real-world projects.

## ❓ Interview Questions

1. Sample interview question about OAuth2 and JWT

2. Another common interview question about OAuth2 and JWT

# Monolithic

## 📘 Theory

• Key points and short explanation about Monolithic

## 💻 Programs

Program 1:  
```java  
// Example code here  
```

Program 2:  
```java  
// Example code here  
```

## 🌍 Real-World Example

Explain how Monolithic is used in real-world projects.

## ❓ Interview Questions

1. Sample interview question about Monolithic

2. Another common interview question about Monolithic

# Service Oriented Architecture

## 📘 Theory

• Key points and short explanation about Service Oriented Architecture

## 💻 Programs

Program 1:  
```java  
// Example code here  
```

Program 2:  
```java  
// Example code here  
```

## 🌍 Real-World Example

Explain how Service Oriented Architecture is used in real-world projects.

## ❓ Interview Questions

1. Sample interview question about Service Oriented Architecture

2. Another common interview question about Service Oriented Architecture

# Event Driven Architecture

## 📘 Theory

• Key points and short explanation about Event Driven Architecture

## 💻 Programs

Program 1:  
```java  
// Example code here  
```

Program 2:  
```java  
// Example code here  
```

## 🌍 Real-World Example

Explain how Event Driven Architecture is used in real-world projects.

## ❓ Interview Questions

1. Sample interview question about Event Driven Architecture

2. Another common interview question about Event Driven Architecture

# Spring Boot Testing

## 📘 Theory

• Key points and short explanation about Spring Boot Testing

## 💻 Programs

Program 1:  
```java  
// Example code here  
```

Program 2:  
```java  
// Example code here  
```

## 🌍 Real-World Example

Explain how Spring Boot Testing is used in real-world projects.

## ❓ Interview Questions

1. Sample interview question about Spring Boot Testing

2. Another common interview question about Spring Boot Testing

# Spring Boot Deployment

## 📘 Theory

• Key points and short explanation about Spring Boot Deployment

## 💻 Programs

Program 1:  
```java  
// Example code here  
```

Program 2:  
```java  
// Example code here  
```

## 🌍 Real-World Example

Explain how Spring Boot Deployment is used in real-world projects.

## ❓ Interview Questions

1. Sample interview question about Spring Boot Deployment

2. Another common interview question about Spring Boot Deployment

# Troubleshooting

## 📘 Theory

• Key points and short explanation about Troubleshooting

## 💻 Programs

Program 1:  
```java  
// Example code here  
```

Program 2:  
```java  
// Example code here  
```

## 🌍 Real-World Example

Explain how Troubleshooting is used in real-world projects.

## ❓ Interview Questions

1. Sample interview question about Troubleshooting

2. Another common interview question about Troubleshooting

# Spring Boot and Data JPA

## 📘 Theory

• Key points and short explanation about Spring Boot and Data JPA

## 💻 Programs

Program 1:  
```java  
// Example code here  
```

Program 2:  
```java  
// Example code here  
```

## 🌍 Real-World Example

Explain how Spring Boot and Data JPA is used in real-world projects.

## ❓ Interview Questions

1. Sample interview question about Spring Boot and Data JPA

2. Another common interview question about Spring Boot and Data JPA

# Spring Boot and Cloud

## 📘 Theory

• Key points and short explanation about Spring Boot and Cloud

## 💻 Programs

Program 1:  
```java  
// Example code here  
```

Program 2:  
```java  
// Example code here  
```

## 🌍 Real-World Example

Explain how Spring Boot and Cloud is used in real-world projects.

## ❓ Interview Questions

1. Sample interview question about Spring Boot and Cloud

2. Another common interview question about Spring Boot and Cloud