

Spring Boot Framework and Microservices Assessment

- What is Spring Boot?

Marked Answer :

A lightweight Java framework for building standalone, production-grade applications

Correct Answer :

A lightweight Java framework for building standalone, production-grade applications

Total Marks : 1MARKS OBTAINED 1

- What is a microservice?

Marked Answer :

A software architecture that structures an application as a collection of loosely coupled services

Correct Answer :

A software architecture that structures an application as a collection of loosely coupled services

Total Marks : 1MARKS OBTAINED 1

- Which of the following is NOT a benefit of using microservices?

Marked Answer :

Reduced complexity

Correct Answer :

Reduced complexity

Total Marks : 1MARKS OBTAINED 1

- What is the purpose of the Spring Boot Actuator?

Marked Answer :

To provide detailed information about the running Spring Boot application

Correct Answer :

To provide detailed information about the running Spring Boot application

Total Marks : 1MARKS OBTAINED 1

- Which of the following is an example of a technology commonly used for inter-service communication in microservices architecture?

Marked Answer :

HTTP/1.1

Correct Answer :

HTTP/1.1

Total Marks : 1MARKS OBTAINED 1

- What is the purpose of the Eureka server in a microservices architecture?

Marked Answer :

To provide a registry of available microservices

Correct Answer :

To provide a registry of available microservices

Total Marks : 1MARKS OBTAINED 1

- Which of the following is an example of a database commonly used in microservices architecture?

Marked Answer :

MongoDB

Correct Answer :

MongoDB

Total Marks : 1MARKS OBTAINED 1

- What is the purpose of a circuit breaker in a microservices architecture?

Marked Answer :

To prevent cascading failures in a distributed system

Correct Answer :

To prevent cascading failures in a distributed system

Total Marks : 1MARKS OBTAINED 1

- Which of the following is an example of a tool commonly used for containerization in microservices architecture?

Marked Answer :

Docker

Correct Answer :

Docker

Total Marks : 1MARKS OBTAINED 1

- Which of the following is NOT a characteristic of microservices architecture?

Marked Answer :

Monolithic

Correct Answer :

Monolithic

Total Marks : 1MARKS OBTAINED 1

- Spring Boot used for developing?

Marked Answer :

Microservices

Correct Answer :

Microservices

Total Marks : 1MARKS OBTAINED 0

- What is Spring Initializer?

Marked Answer :

A web-based tool for generating a basic Spring Boot project structure

Correct Answer :

A web-based tool for generating a basic Spring Boot project structure

Total Marks : 1MARKS OBTAINED 1

- What does Spring Boot do to simplify the configuration of a Spring-based application?

Marked Answer :

Automatically configures necessary beans and dependencies

Correct Answer :

Automatically configures necessary beans and dependencies

Total Marks : 1MARKS OBTAINED 1

- How can a Spring Boot application be packaged and distributed?

Marked Answer :

All of the above

Correct Answer :

All of the above

Total Marks : 1MARKS OBTAINED 1

- Which Spring annotation is used to create RESTful web services using Spring MVC?

Marked Answer :

@RestController

Correct Answer :

@RestController

Total Marks : 1MARKS OBTAINED 1

- @RestController annotation is a combination of the below two annotations

Marked Answer :

@Controller and @ResponseBody annotations

Correct Answer :

@Controller and @ResponseBody annotations

Total Marks : 1MARKS OBTAINED 1

- Which Spring annotation is used to handle HTTP POST requests?

Marked Answer :

@PostMapping

Correct Answer :

@PostMapping

Total Marks : 1MARKS OBTAINED 1

- Which Spring annotation is used to handle HTTP GET requests?

Marked Answer :

@GetMapping

Correct Answer :

@GetMapping

Total Marks : 1MARKS OBTAINED 1

- Which Spring annotation is used to handle HTTP DELETE requests?

Marked Answer :

@DeleteMapping

Correct Answer :

@DeleteMapping

Total Marks : 1MARKS OBTAINED 1

- Which Spring annotation is used to handle HTTP PUT requests?

Marked Answer :

@PutMapping

Correct Answer :

@PutMapping

Total Marks : 1MARKS OBTAINED 1

- Which annotation do we use to mark the class as a Service class/component?

Marked Answer :

@Service

Correct Answer :

@Service

Total Marks : 1MARKS OBTAINED 1

- Which is the default implementation class of the JpaRepository interface?

Marked Answer :

JpaRepositoryImpl class

Correct Answer :

JpaRepositoryImpl class

Total Marks : 1MARKS OBTAINED 1

- Which is the default HTML template in Spring Boot

Marked Answer :

Thymeleaf

Correct Answer :

Thymeleaf

Total Marks : 1MARKS OBTAINED 1

- Which starter dependency is used to develop web applications or Restful web services?

Marked Answer :

spring-boot-starter-web

Correct Answer :

spring-boot-starter-web

Total Marks : 1MARKS OBTAINED 1

- What is the purpose of the Spring Boot Actuator?

Marked Answer :

To provide production-ready features such as monitoring and metrics

Correct Answer :

To provide production-ready features such as monitoring and metrics

Total Marks : 1MARKS OBTAINED 1

- How can you specify the port on which a Spring Boot application runs?

Marked Answer :

All of the above

Correct Answer :

All of the above

Total Marks : 1MARKS OBTAINED 1

- Queries in microservices architecture are implemented through _____

Marked Answer :

CQRS

Correct Answer :

CQRS

Total Marks : 1MARKS OBTAINED 1

- Microservices based architecture prefers _____

Marked Answer :

No Dependency on any particular DBs

Correct Answer :

No Dependency on any particular DBs

Total Marks : 1MARKS OBTAINED 1

- Software built as microservices can by definition be broken down into multiple component services. The statement is:

Marked Answer :

true

Correct Answer :

true

Total Marks : 1MARKS OBTAINED 1

- The benefits of microservices include _____

Marked Answer :

All of the above

Correct Answer :

All of the above

Total Marks : 1MARKS OBTAINED 1

Total Marks **29 / 30**

29/30

Question 1

1

What is Spring Boot?

- ☐ A Java-based framework for building microservices
- ☒ A lightweight Java framework for building standalone, production-grade applications
- ☐ A powerful tool for developing web applications in PHP
- ☐ A popular Python web framework

Question 2

1

What is a microservice?

- ☐ A small server that handles a single request
- ☒ A software architecture that structures an application as a collection of loosely coupled services
- ☐ A type of web application that uses microcontrollers
- ☐ A programming language for microprocessors

Question 3

1

Which of the following is NOT a benefit of using microservices?

- ☐ Improved scalability
- ☐ Improved fault tolerance
- ☐ Improved security

☒ Reduced complexity

Question 4

1

What is the purpose of the Spring Boot Actuator?

☒ To provide detailed information about the running Spring Boot application

☐ To manage the lifecycle of microservices

☐ To provide security for microservices

☐ To provide an interface for building user interfaces

Question 5

1

Which of the following is an example of a technology commonly used for inter-service communication in microservices architecture?

☒ HTTP/1.1

☐ FTP

☐ SMTP

☐ SSH

Question 6

1

What is the purpose of the Eureka server in a microservices architecture?

☒ To provide a registry of available microservices

☐ To provide a database for storing microservices

☐ To provide an interface for managing microservices

☐ To provide security for microservices

Question 7

1

Which of the following is an example of a database commonly used in microservices architecture?

☐ MySQL

☒ MongoDB

☐ Oracle

☐ PostgreSQL

Question 8

1

What is the purpose of a circuit breaker in a microservices architecture?

☒ To prevent cascading failures in a distributed system

☐ To manage the lifecycle of microservices

☐ To provide security for microservices

☐ To provide an interface for managing microservices

Question 9

1

Which of the following is an example of a tool commonly used for containerization in microservices architecture?

☒ Docker

☐ Jenkins

☐ Ansible

☐ Chef

Question 10

1

Which of the following is NOT a characteristic of microservices architecture?

☒ Monolithic☐ Distributed☐ Loosely coupled☐ Independent

Question 11

1

Spring Boot used for developing?

☐ Web applications☐ Distributed applications (Restful web services)☐ Microservices☒ Microservices

Question 12

1

What is Spring Initializer?

☒ A web-based tool for generating a basic Spring Boot project structure☐ A command-line tool for generating a basic Spring Boot project structure☐ A tool for initializing a Spring-based application with a specific set of dependencies☐ A tool for creating a Spring Boot application with a specific set of features

Question 13

1

What does Spring Boot do to simplify the configuration of a Spring-based application?

- ☒ Automatically configures necessary beans and dependencies
- ☐ Uses annotations to configure beans and dependencies
- ☐ Allows for the use of XML configuration files
- ☐ Provides a command line interface for configuring the application

Question 14

1

How can a Spring Boot application be packaged and distributed?

- ☐ As a JAR file
- ☐ As a WAR file
- ☐ As a ZIP file
- ☒ All of the above

Question 15

1

Which Spring annotation is used to create RESTful web services using Spring MVC?

- ☒ @RestController
- ☐ @Controller
- ☐ @Component
- ☐ @Rest

Question 16

1

@RestController annotation is a combination of the below two annotations

☐ @Component and @ResponseBody annotations

☒ @Controller and @ResponseBody annotations

☐ @Service and @ResponseBody annotations

☐ None of the above

Question 17

1

Which Spring annotation is used to handle HTTP POST requests?

☐ @GetMapping

☐ @PutMapping

☐ @CreateMapping

☒ @PostMapping

Question 18

1

Which Spring annotation is used to handle HTTP GET requests?

☒ @GetMapping

☐ @PutMapping

☐ @CreateMapping

☐ @PostMapping

Question 19

1

Which Spring annotation is used to handle HTTP DELETE requests?

☐ @GetMapping

☐ @PutMapping

☒ @DeleteMapping

☐ @PostMapping

Question 20

1

Which Spring annotation is used to handle HTTP PUT requests?

☐ @GetMapping

☒ @PutMapping

☐ @DeleteMapping

☐ @PostMapping

Question 21

1

Which annotation do we use to mark the class as a Service class/component?

☐ @Component

☒ @Service

☐ @Controller

☐ @Repository

Question 22

1

Which is the default implementation class of the JpaRepository interface?

☐ SimpleJpaRepository class

☒ JpaRepositoryImpl class

☐ CustomJpaRepository class

☐ DefaultJpaRepository class

Question 23

1

Which is the default HTML template in Spring Boot

☐ JSP

☐ Freemarker

☒ Thymeleaf

☐ Groovy

Question 24

1

Which starter dependency is used to develop web applications or Restful web services?

☐ spring-boot-starter-data-jpa

☒ spring-boot-starter-web

☐ spring-boot-starter-rest

☐ spring-boot-starter-web-dependency

Question 25

1

What is the purpose of the Spring Boot Actuator?

- ☒ To provide production-ready features such as monitoring and metrics
- ☐ To provide a way to configure beans using annotations
- ☐ To provide a way to run Spring Boot applications as a service
- ☐ To provide a way to access the underlying database of a Spring Boot application

Question 26

1

How can you specify the port on which a Spring Boot application runs?

- ☐ By modifying the application.properties file
- ☐ By modifying the application.yml file
- ☐ By using the --server.port command-line option
- ☒ All of the above

Question 27

1

Queries in microservices architecture are implemented through _____

- ☐ SQRS
- ☒ CQRS
- ☐ OQRS
- ☐ LQRS

Question 28

1

Microservices based architecture prefers _____

☐ NoSql DBs

☐ RDBMS DBs

☐ MySql DBs

☒ No Dependency on any particular DBs

Question 29

1

Software built as microservices can by definition be broken down into multiple component services. The statement is:

☒ true

☐ false

☐ no idea

☐ none

Question 30

1

The benefits of microservices include _____

☐ Easy scaling

☐ Improved fault tolerance

☐ Faster to build and deploy

☐ Scale development: Develop, Deploy & Scale

☒ All of the above