**QUIZZES**

**MAVEN QUIZ**

1. What is Maven?

Answer: A build tool.

## Which file serves as the core configuration file in a Maven project?

Answer: pom.xml.

## What does the mvn clean command do?

## Answer: Deletes the target/directory.

## Which lifecycle phase in Maven is used for packaging the compiled source code?

## Answer: Package.

## What is a Maven repository?

## Answer: A project where Maven stores project binaries.

## Which of the following commands will compile the Maven project and install the package into the local repository?

## Answer: mvn clean install.

## In which directory are the resource files placed by default in a Maven project?

## Answer: src/main/resources.

## Which Maven plugin is used for compiling Java sources?

## Answer: maven compiler-plugin.

## Which of the following is NOT a type of Maven repository?

## Answer: Distributed.

## What does the mvn validate command do?

## Answer: Validates that the project is correct and all necessary information is available.

## What does the archetype in Maven refer to?

## Answer: A template or pattern to generate project structures.

## Which of the following is the command to skip tests in Maven?

## Answer: mvn install -DskipTests.

## Which file is consulted by Maven to download project dependencies?

## Answer: pom.xml.

## How can you specify a particular version of Java for your Maven project?

## Answer: By using the maven compiler-plugin in pom.xml.

## In which directory would you place test-related resources in a Maven project?

## Answer: /src/tests/resources.

## SPRING QUIZ

## What is the main purpose of the Spring Framework?

## Answer: To provide a comprehensive programming and configuration model for Java-based enterprise applications.

## What is the default scope of the Spring Bean?

## Answer: singleton.

## Different ways to configure Spring-based applications?

## Answer: All of the above.

## What is the purpose of the Spring IoC container?

## Answer: To manage the lifecycle of beans and their dependencies.

## What is the purpose of the Spring MVC module?

## Answer: To provide a web framework for building web applications.

## What are Spring stereotype annotations?

## Answer: All of the above.

## What are two ways to achieve dependency Injection in Spring?

## Answer: Using a setter and a constructor.

## What is the scope of creating a new instance every time the bean is requested from the spring container?

## Answer: prototype.

## What is the purpose of the Spring MVC module?

## Answer: To provide a web framework for building web applications.

## Which is the front controller in Spring MVC?

## Answer: DispatcherServlet.

## Spring MVC Framework is designed based on which Design Pattern?

## Answer: Model-View-Controller (MVC).

## In Spring MVC, DispatcherServlet consults \_\_\_\_\_\_\_\_\_\_\_\_ to map the logical view name with the actual view implementation

## Answer: ViewResolver.

## In Spring MVC web applications, all the HTTP requests first come to which component?

## Answer: DispatcherServlet.

## What is the purpose of the Spring JDBC module?

## Answer: To provide a data access framework for accessing databases.

## Which Spring Framework module is used to implement cross-cutting concerns in Spring based-applications?

## Answer: AOP.

## JdbcTemplate implements the below design pattern?

## Answer: Template Design Pattern.

## Different ways to inject Spring beans in Spring-based applications?

## Answer: All of the above.

## Are singleton beans thread-safe?

## Answer: No.

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

## Answer: @RestController.

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

## Answer: @Controller and @ResponseBody annotations.

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

## Answer: @PostMapping.

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

## Answer: @GetMapping.

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

## Answer: @DeleteMapping.

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

## Answer: @PutMapping.

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

## Answer: @Service.

## What is the primary use of the Spring Security module?

## Answer: To provide authentication and authorization for web applications.

## Which Spring annotation is used to inject the Spring bean?

## Answer: @Autowired.

## Which Spring annotation is used to extract the URI template variable value?

## Answer: @PathVariable.

## Which interface represents the Spring IOC container?

## Answer: ApplicationContext.