

bean tag, id attribute, class attribute, property tag, name attribute, value attribute

The <bean> tag in a Spring XML configuration file defines an object that Spring will create and manage.

The id attribute gives a unique name to identify the bean.

The class attribute specifies the fully qualified name of the Java class for the bean.

Inside a bean, the <property> tag sets the values of the bean's fields.

The name attribute of <property> corresponds to the Java property name.

The value attribute of <property> provides the value to assign to the property.

ApplicationContext, ClassPathXmlApplicationContext

ApplicationContext is the Spring container that manages the lifecycle and configuration of beans.

ClassPathXmlApplicationContext is an implementation of ApplicationContext that reads bean definitions from an XML file located in the classpath.

What happens when context.getBean() is invoked

When context.getBean() is called, Spring locates the bean definition by its ID in the XML configuration, creates the bean if it is not already created, sets its properties, and returns the fully initialized instance.