

Day-7

Name – Rabindra Kumar

ID – asterdm2212_13

Problem Statement 2: What should you prefer - using constructor injection VS property injection and why. Try to explain using an example.

Constructor injection is used when the class cannot function without the dependent class.

Property injection is used when the class can function without the dependent class.

I will choose Constructor Injection.

Constructor injection helps in creating immutable objects because a constructor's signature is the only possible way to create objects. Once we create a bean, we cannot alter its dependencies anymore.

Constructor injection is used when the class cannot function without the dependent class. Property injection is used when the class can function without the dependent class. As a concrete example, consider a Service Repository which depends on Service to do its work.

The second reason why setter injection is used a lot more often than you would expect, is the fact that frameworks like Spring in general, are much more suited to be configured by setter injection than by constructor injection. This is mostly because frameworks that need to be configured often contain lots of optional values. Making optional values configurable using constructor injection would lead to needless clutter and proliferating constructors, especially when used in combination with class inheritance.

I think constructor injection is much more usable for application code than it is for framework code. In application code, you inherently have a lesser need for optional values that you need to configure. Second of all, application code uses class inheritance a lot less often than framework code does. Specialization in an application does not occur as often in application code as it does in framework code for example—again the number of use cases in which application code is far less.