1.4

Dependency Injection

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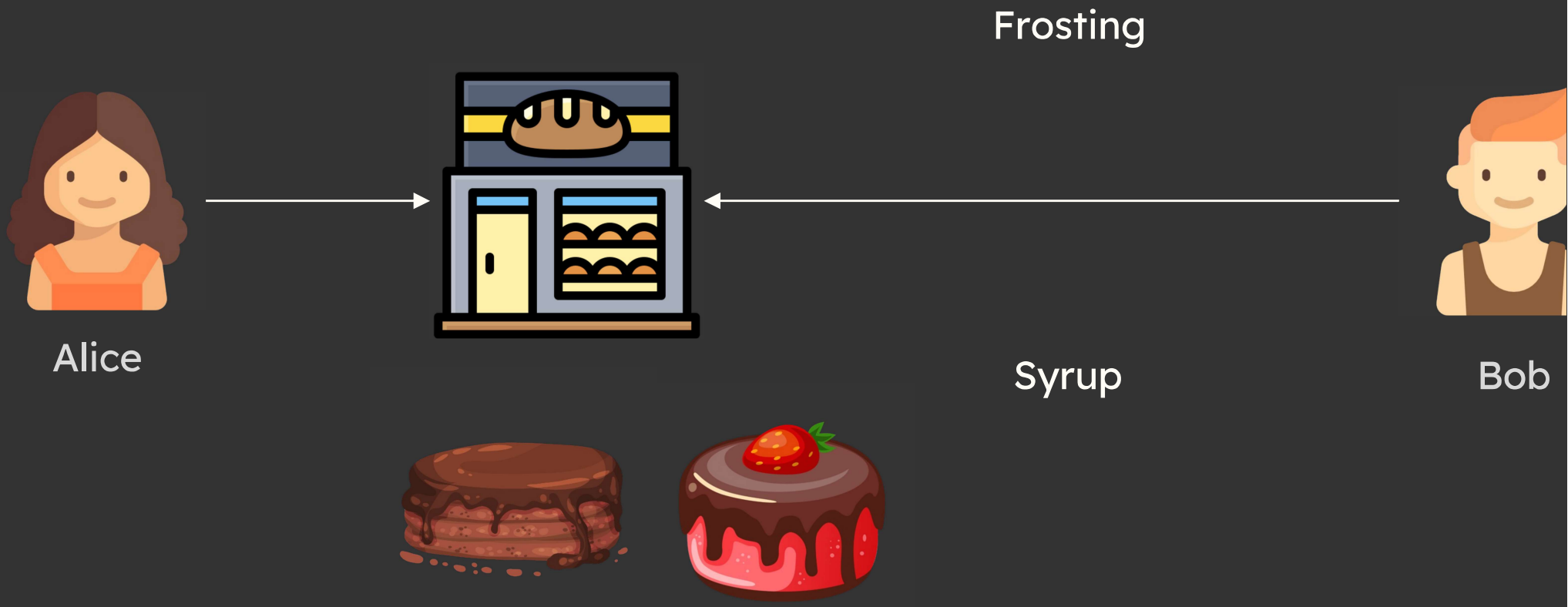

Dependency Injection

Dependency Injection (DI) in the context of the Spring Framework i
design pattern and technique used to achieve loose coupling betw
components in a software application. In a DI scenario, instead o
component creating its dependencies directly, the dependencies
injected into the component from an external source, typically mana
by a framework like Spring.

Benefits of Dependency Injection

Loose Coupling: Components are decoupled from their dependenci making them easier to maintain and test.

Flexible Configuration: Dependencies can be configured external allowing for easier customization and swapping of components.

Improved Testability: Components can be easily mocked or repla during testing, allowing for more thorough and isolated unit tests.

How to Inject Dependencies

Constructor Injection

Dependencies are provided through a class constructor.

Field Injection

Dependencies are provided directly into the fields of a class using @Autowired