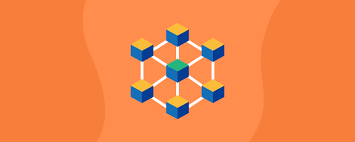
**Design Patterns**

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# Factory method

There is na abstract class in org.jabref.logic.exporter package called Exporter which is a normal class with some data and functionalities.

This Exporter class works as the product where the ExporterFactory (in the same package) works as the product’s creator (factory). This factory class provides an interface which objective is to create Exporter objects, allowing its subclasses to change and deal with the object in a specific way.

# Composite

There is na interface in package org.jabref.logic.importer package called SearchBasedFetcher. This interface works as the component of the patterns and extends the WebFecther interface, located in the same package.



Working as the Leaf of this pattern we have the GrobidCitationFetcher in the package org.jabref.logic.importer.fetcher which implements the SearchBasedFecther interface, implementing both SearchBasedFecther and WebFetcher methods.



In the org.jabref.logic.importer.fetcher package we have a class called CompositeSearchBasedFetcher which implements the SearchBasedFetcher interface. Alike the Leaf class it also implements both SearchBasedFetcher and WebFetcher methods. This was identified as the composite class because it stores SearchBasedFetcher objects. This objects can be either leafs (GrobidCitationFecther) or even other composites (CompositeSearchBasedFetcher).

