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Descrição gerada automaticamente

**Design Patterns**

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**Factory 2**

Code snippets:

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Location: src/main/java/org/jabref/logic/exporter/ExporterFactory.java

Explanation: A Factory design pattern goal is to work as a “Virtual constructor” and defines a method, which should be used for creating objects instead of direct construtor calls. The purpose is to hide the creation of instances of a given type so the client does not depend on concrete classes and provide hooks for subclasses. Trough this code snippet, the ExporterFactory acts as a creator and if there are multiple clients that want to instantiate the same set of classes, this cuts out redundant code.

**Template**

Code snippets:

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Location: src/main/java/org/jabref/logic/exporter/TemplateExporter.java & src/main/java/org/jabref/logic/exporter/Exporter.java

Explanation: A Template design pattern goal is to define the skeleton of an algorithm in an operation, deferring somesteps to subclasses, where its subclasses can override the method implementation as per need. Through this code snippet, the abstract class, which is Exporter, defines abstract primitive operations that concrete subclasses define to implement steps of na algorithm. The concrete class, which is TemplateExporter, implements the primitive operations to carry out specific steps of the algorithm.

**Composite**

Code snippets:

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Location: src/main/java/org/jabref/logic/layout/LayoutFormatter.java & src/main/java/org/jabref/logic/layout/format/CompositeFormat.java

Explanation: A composite design pattern goal is to compose objects into tree structures to represent part-whole hierarchies. This pattern lets clients treat individual objects and compositions of objects uniformly. Through this code snippet, the component, which is the LayoutFormatter, declares the interface for the objects in the composition and implements their default behaviour (their format). The composite, CompositeFormat, defines the behavior for the components children and stores their child componentes.