**Patterns**

1.Singleton structure

Location: java/biz/ganttproject/core/chart/grid/OffsetList.java

Rationale explanation:

The class is only used to access a single instance since it is extending the abstract class there is no problem with doing that.

Codebase snippet:

Uma imagem com texto

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2. Façade

Location: java/biz/ganttproject/core/chart/grid/OffsetLookup.java

Rationale explanation:

The class creates other classes that implement the same interface but for different types that are used as arguments when creating the class. Because both classes use the same name to compare the only difference between them is the type.

Codebase snippet:

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3.Factory method pattern

Location: java/biz/ganttproject/core/chart/grid/OffsetBuilderImpl.java

Rationale explanation:

This class is hiding the creation of instances of the given type behind an interface, so the client doesn’t depend on concrete classes and one class can be easily replaceable or added.

Codebase snippet:

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