**DESIGN PATERNS**

* **Singleton**

**Location**: ganttproject\src\main\java\net\sourceforge\ganttproject\language

**Class:** GanttLanguage.java

**Code Snipped:**

**//Private Object**

****

**//Create only one instance**

****

**//Private Constructor**

**Uma imagem com texto

Descrição gerada automaticamente**

**Explanation:** This class, “GanttLanguage” has only one instance, that can be globally called with getInstance() method.

* **Observer**

**Location:** ganttproject\src\main\java\net\sourceforge\ganttproject\scrolling

**Class:** ScrollingManagerImpl.java

**Code Snipped:**

**//Class that will be “observed” when events happen**

****

**// This method add a Listener to notify the Observer(“ScrollingListener”)**

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**//Interface that will be notified, when “addScrollingListener” is called**

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**Explanation:** Notify the object “ScrollingListener” about events that happen to “Scrolling Manager”

* **Strategy**

**Location:** ganttproject\src\main\java\net\sourceforge\ganttproject\task\algorithm

**Class:** CriticalPathAlgorithm.java

**Code Snipped:**

**//Algorithm (Strategy Interface)**

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**//Algorithm (Strategy Class)**

****

**//Context class**

****

Explanation: We can see a Strategy Algorithm at “CriticalPathAlgorithmImpl” class, where by “AlgorithmBase” different strategies can be done, the “Strategy Interface” can be implemented by a family of algorithms, our strategies.

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