**Patterns**

1. Factory

Location:

ganttproject\biz.ganttproject.core\src\main\java\biz.ganttproject\core\time\CalenderFactory

Rationale explanation:

This abstract class is used to create GanttCalenders given different arguments. This helps to hide the complete process behind the creation of a GanttCalender to the user, starting off with a predefined localeApi, but also giving the possibility to change localeApi’s for users with more knowledge about the system.

Codebase snippet:

Text

Description automatically generated

1. Façade

Location

ganttproject\ganttproject\src\main\java\net.sourceforge.ganttproject\export\ConsoleUIFacade

Rationale

ConsoleUIFacade is a façade class used to hide complex details about the system while also formatting the outputs and other functionalities in a more user-friendly way to be used in the console UI.

Codebase Snippet

Text

Description automatically generated

Text

Description automatically generated

1. Adapter

Location

ganttproject\ganttproject\src\main\java\net.sourceforge.ganttproject\gui\options\model\CustomPropertyDefaultValueAdapter

Rationale

Given a CustomPropertyClass object and a CustomPropertyDefinition object this class implements the ability to adapt the default value from the CustomPropertyDefinition object to a GPOption implemented class base on a primitive type given by the CustomPropertyClass object. While also providing a commit and a setValue methods.

Text

Description automatically generatedCodebase Snippet