Design patterns:

**Iterator**

Text

Description automatically generated

Location:



Rationale: There is an iterator to go through all the spreadsheet’s records of the Gantt graph when passing it to CSV. It is convenient to iterate this way so the converter class (the one that converts to CSS), doesn’t get access to information of the records it is converting.

**Observer**

**Graphical user interface, text, application, email

Description automatically generated**

Location: 

Rationale:

This class methods are called whenever there are some actions on a node of the Pert Chart, changing some data in the main app. These actions can be a mouse drag, a mouse move, a mouse click, etc.

**Façade**

Graphical user interface, text, application, email

Description automatically generated

Location:



Rationale: This façade serves as a way for the user to interact with the task hierarchy tree hiding more complex functionalities like interacting with left and right nodes, iterating the tree and so on from the other classes. It saves the user the task and trouble to make a class to interact with the Task Hierarchy tree.