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Exercise 1:

* Examples of separately defined Interfaces in GanttProject:

There are a lot of separately defined interfaces in GanttProject. I picked two Interfaces as examples. The first Interface is the UIFacade Interface which is implemented –among others– in UIFacadeImpl class. The second Interface is the Document interface which is implanted –among others– in FileDocument class.

* Short description of how this separation works

As explained in the Java doc, interface form a contract between the class and the outside world. If a class implemented an Interface, it is enforced to implements all methods defined in that interface. It means that your code will not be compiled successfully otherwise.

Example: The method getFileName is defined in Document Interface. The class FileDocument implemented this Interface. Therefore all the method defined in the Document Interface are implemented in this class, including the getFileName method. The implementation method is marked by the @override annotation (not necessary).

To use the getFileName method, we need a reference of the implementing class. Either as an Object which is declared globally like in ProxyDocument class or as a Paramter like in open method in GanttProject class.

* Possible reasons why it has been done

Using an Interface

Exercise 2:

* Pros & cons of using Optional
* Pros & cons of using Exception
* When to use which method
* Which method is better in this particular case

Exercise 3: