Name	Large Class

Description

Large Class is described by (FOWLER, 2004) as a class that tries to do too much. On object oriented models, a class should represent a single abstraction of a given domain. When a class becomes too large, it is often an indication that this OO good practice is not respected. Then a Large Class is often traduced as a class with too many attributes or too many methods.

Source code detection

Large Class commonly use one of the following information to identify the code smell:

- The class number of attributes and methods (NOAM), where a Large Class is considered to be a class with NOAM higher than a pre-defined threshold.
- The class number of code lines (LOC), where a Large Class is a class with LOC higher than a pre-defined threshold.

Model detection

The detection strategy is then defined as:

LargeClass = (NEC > 20) * suggested threshold

Where:

- Number of Elements in Class (NEC): represents the sum of the amount of attributes and methods in a class.

How to pay the debt

Break the class into new classes while NEC is higher than 10.