

UMLsmell is a tool that, automatically via software metrics, Identify bad smell. It recognizes in which classes were identified the bad smells, and at what level, *regular* or *bad*. UMLsmell receives as input a XMI file, which corresponds to the diagram classes to be analyzed and identified via metrics. It is held parsing in order to extract the following information: classes, attributes, methods, parameters and relationships. This data is stored internally in the data structures defined by the program for future reference, so that, from these data, the functionality *Generating metrics* allows the user to select among existing metrics in the system, those for which he wants to generate reports for late analysis. This feature allows the user to check the values of metrics selected for software classes. These metrics allow the functionality *Identify bad smells*, which is the central point of the tool. *Define threshold* allows the user to customize the threshold in *regular* and *bad* for each metric collected by the tool. This feature was implemented so that the user is free to choose the threshold he prefers to use. *Create project*, create a file that stores all the changes in threshold. This feature is useful if the threshold is changed as you need and want to save them for future uses of UMLsmell. *Export results*, it allows that the metrics analysis and bad smells are exported to spreadsheet format accepted by most of the tools Spreadsheets currently available.

The tool has the following user interfaces: a home screen that displays a list of all projects already designed to be loaded; a screen with the definition of values metrics; screens with statistics metrics; and screens with statistics bad smells.