The strategy has the following features:

**owner** (Designer of the strategy)

**name** (The name that is used in programming)

**displayName** (the name you want to display on the web page)

**processDescription** (The first paragraph description about the task and tool. It is shown on top of the tool web page)

**strategyDescription** (The second paragraph on the top of the web page which describes the strategy itself)

**allVariables**(All the variables used in all steps)

**subStrategies** (The main strategy should be the first one defined in this list, and all the other subStrategies are defined consecutively)

Each Strategy in the list of subStrategies has the following features:

**1- name**

**2- displayName**

**3- statements**

And each statement has:

**lineNum** (like unique Id)

**text**: The words appear on the tool steps

**description**: the description of each statement appears on the description bar

**successor**: next statement lineNum (the last statement of all strategies are empty text and has successor ‘undefined’)

**class**: used for indentation

* margin-1: add one-unit marginal space before statement text in UI
* margin-2 add two-unit marginal space before statement text in UI
* margin-3 ….
* margin-4…

**variables:** should be removed; we don’t need it anymore because we decided to make allVariables general to the context of the whole strategy

**nextStrategy**: usually it is empty string (“”), except when we switch to another strategy. In other words, when the successor of the current line is a subStrategy we need to reference the name of the subStrategy to the nextStrategy field:

**activeLines**: a list of the lineNums which should be bold in the execution of current line

Note1: activeLines and successor has the same concepts. I added activeLines to handle the back-tracking issues. I am trying to mix this 2 features in one feature, successor, that is supposed to be a list of successor lineNumbers.