

## Instructions

Your assignment is to work on a java project using a natural language java search tool. The task handout gives detailed instructions on what you have to do.

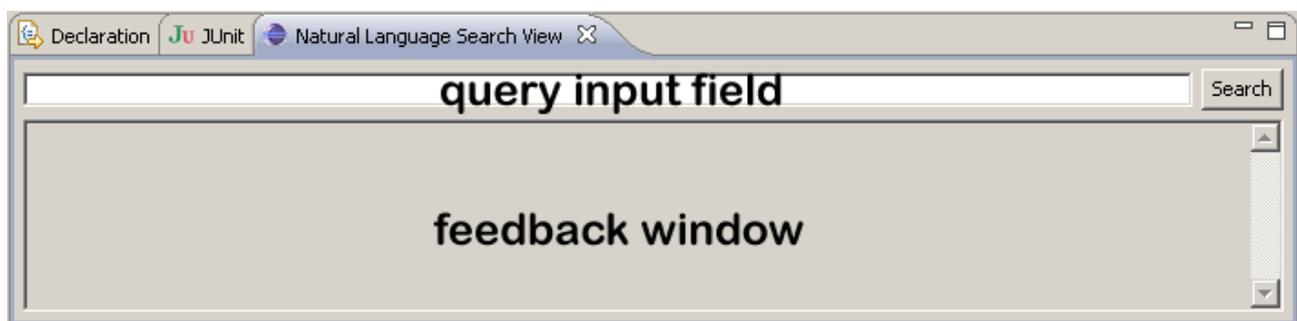
The tool you will be using is currently under development as part of a diploma thesis here at the software engineering department. It allows you to search for java elements in sourcecode by stating natural language queries.

## How to use the tool

All queries have to be complete english questions, for example: "Where are super reference calls to method doSomething". The name of the java object you are looking for (in case of the previous example doSomething) can contain wildcards (\* for any number of characters and ? for a single character) and may be enclosed in double quotes ("") to increase the chance the tool interprets your query correctly. Please do not end queries with a question mark, as this will be taken as a wildcard character (of course unless that's what you intend it to be).

The tool does not work with plurals of object names or type names. So, if you are looking for throws of NullPointerExceptions, make sure to enter NullPointerException since this is the correct type name. All queries are case insensitive. Please make sure that your query does not contain any typos, since this is one of the most common reasons the tool does not find an answer.

Enter your query in the query input field. If the tool does not understand it, it will show an error message in the feedback window. The message that the tool understood your query does not necessarily mean that it understood it correctly. The search results will be shown in the eclipse search result view. Regardless of whether it understood the query or not, the feedback window will show which values the tool found in your query for the three parameters it is looking for: what you are looking for (e.g. type or method), with which name (e.g. doSomething) and in which context (e.g. reference, read access or declaration).



## Rules

- The only tool you are allowed to use while working on the tasks is the natural language java search tool. The use of the package explorer, outline view or any other search functionality of eclipse is prohibited. The only application you are allowed to use is eclipse.
- In case the natural language search tool does not find what you are looking for (there is at least one match for every task) or shows an error (for example that it didn't understand your question) try again with a differently phrased query. Keep trying until you either get the information you are looking for or the instructor tells you to continue with the next task.