

# BigID QA Automation Task

1. Review the spec and design a test plan. What should be tested and how? What should be done manually and what can be covered in automation? Which scenarios to test? Corner cases? Other considerations?

## Spec:

A simple Java program that finds specific strings in a large text.

The program is composed of the following modules:

- I. The main module - reads a large text file in parts (e.g. 1000 lines in each part) and sends each part (as string) to a matcher. After all matchers completed, it calls the aggregator to combine and prints the results. Invoke the main module by: Finder.bat
- II. The matcher - gets a text string as input and searches for matches of a given set of strings. The result is a map from a word to its location(s) in the text
- III. The aggregator - aggregates the results from all the matchers and prints the results.

For this task, please use the text at <http://norvig.com/big.txt>

The strings to find should be the 50 most common English first names: James, John, Robert, Michael, William, David, Richard, Charles, Joseph, Thomas, Christopher, Daniel, Paul, Mark, Donald, George, Kenneth, Steven, Edward, Brian, Ronald, Anthony, Kevin, Jason, Matthew, Gary, Timothy, Jose, Larry, Jeffrey, Frank, Scott, Eric, Stephen, Andrew, Raymond, Gregory, Joshua, Jerry, Dennis, Walter, Patrick, Peter, Harold, Douglas, Henry, Carl, Arthur, Ryan, Roger

Example of one line from the program output based on the input above: Timothy --> [[lineOffset=13000, charOffset=19775], [lineOffset=13000, charOffset=42023]]

2. Create a script or small program (in any language you want) that generates mock personal data with the following fields: email, firstname, lastname, city, country, 9-digit personal ID number.
  - I. Input: num of identities to create. Output: lines with personal data (comma separated), E.g. user@company.com, Moshe, Cohen, New York, Israel, 987345712

**This task should be done alone.** Please do not discuss this task with anyone before or even after you submit. You may use any written or web resource you find, incl. 3rd party libraries. When finished, please send everything to [yoave@bigid.com](mailto:yoave@bigid.com)

**Good Luck!**