The Project:

- Write an API that accepts a set of data (host performance data) in one format, and outputs the data in a different format.
- The API must provide the ability to filter and to sort the records on multiple fields. Examples:
  - Filter by site name and IP address, and sort by site location DESC
  - Sort by site location ASC, host name DESC, and Operative System ASC
- The API only needs to handle CSV and XML formats, but you should be able to plug in new formats with **minimal** changes to the code (or configuration).
- The API should be able to go both directions with both formats.
- Find the sample XML & CSV data attached, as specifications for each format.

Along with the application sources, you must provide the following **unit tests**:

- Test case #1: Generate CSV output from XML input, output must be sorted by by operating system ASC, then by host id DESC.
- Test case #2: Generate CSV output from XML input, filtering by site_name=' NY-01' and sort by host name ASC.
- Test case #3: Generate XML output from XML input, sorted by load average (1 min) ASC, then host id DESC.

Submit a zip file with the Eclipse project (or the project of your preferred IDE) to: job.us@ipsoft.com with the subject "IPsoft Code Test". The zipped file must contain:

- Source code
- Test cases
- A README file that documents any assumptions and design trade-offs you make along the way, instructions to compile/run the test, and a list of any 3rd party libraries used.
- Please make sure to include all 3rd party libraries on the zip file, unless Maven is used for dependency management.