

# Servlet based API for querying text file

As a Product Owner i would like to have Servlet WEB API that will allow me to query/filter information from text files over web so that

- Any person would have access to file without uploading it on local box
- I can do basic query/filter operations online without using text editor or grep/awk/..

Basically you API should read text file from file system and apply filtering/querying logic to produce response.

## Acceptance criteria:

1. API response content type should be JSON
2. API should have following query params:
  - limit: integer which represents max number of chars in text that API should return. If parameter is blank or missing return max 10000 chars.
  - q: string which represents text to search in file, i.e. if it q=java - API should return all strings which equals to 'java' or containing it. If q is blank or missing - API should return all text from file
  - length: integer which represents max string length. API should return string which doesn't exceed that number or if there is no such strings empty response. If parameter is blank or missing ignore it.
  - includeMetaData: boolean which if set to true will expose file metadata in API response alongside textual content. That metadata should contain following: fileName, fileSize (in KB), fileCreationDate (any format you like, but please not milliseconds since epoch). If parameter is blank or missing treat it as a 'false' value.

## Example of API call/response:

/somePath?q=Java&limit=1000&length=5&includeMetaData=true

Such call should return all strings that contains 'Java' with length <= 5 with total length <= 1000. Additionally metadata will be included.

Example JSON response:

```
{
  "text":[
    "Java",
    "JavaC"
  ],
  "metaData":{
    "fileName":"javaLangSpec.txt",
    "fileSize":"900KB",
    "fileCreationDate":"January 23, 1996 at 12: 52PM"
  }
}
```

## Tech Stack requirements:

1. Servlet 3.1
2. Java 7
3. Tomcat 8.x

**Output:**

1. WAR file
2. Packaged source file. Please don't include compiled \*.class files
3. Test file with text content
4. Documentation on how to use your application

**Constraints:**

1. No frameworks like Spring/Jersey should be used
2. API shouldn't be secured
3. Please remember that your application must be capable of handling few simultaneous users working with the same file.
4. **Test text file wouldn't be provided for you upfront. Please create your own.**

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