COUNT SPECIFIC CHARACTER - SPRING BOOT MAVEN PROJECT

Sunday, May 14, 2017 10:55 AM

Tools/Technology Used:

JAVA (JDK 1.8) ECLIPSE STS GIT MAVEN MONGODB RESTFUL POSTMAN

Business Requirement

BASE CASE

Count the number of times a particular character occurs in a string.

Ex: ('Vivek', v)

Ouput: 2 (v occurs twice in Vivek)

Converted the CountSpecificCharacter-PlainJava project into Spring Boot Maven project.

Multiple inputs so far have been provided in a text file.

The outputs will also be provided in the text file upon running the service.

Upon running the project, the following URI can be used to run the service to get the result Of all the outputs that are currently redirected to a output file.

• Currently no interaction is present with Mongodb. But, still mongodb dependency has been added for future implementation.

To run this project, mongodb port needs to be open on your local.

```
initandlistenl
                                                                                               modules: none
                                                                   [initandlisten]
[initandlisten]
                                                                                              build environment
                                                                                                      distmod: 2008plus-
                                                                                                      distarch: x86_64
                                                                   [initandlisten]
          -14T11:04:23.363-0400
-14T11:04:23.363-0400
-14T11:04:23.363-0400
-14T11:04:23.368-0400
                                                                   [initandlisten]
[initandlisten]
                                                                 linitandlistenl options: {}
linitandlistenl Detected data files in
storage engine, so setting the active st
                                                  CONTROL
  ata\db\ created by the 'wiredTiger'
   engine to 'wiredTiger'.
2–05–14T11:04:23.369–0400 I STORAGE [initandlisten] wiredtiger_open_config
eate.cache_size=86,session_max=20000,eviction=(threads_max=4),config_base=falstatistics=(fast),log=(enabled=true,archive=true,path=journal,compressor=snapp,file_manager=(close_idle_time=100000),checkpoint=(wait=60,log_size=2GB),stat
     s_log=[wait=0].
-05-14T11:04:25.604-0400 I NETWORK [HostnameCanonicalizationWorker] Starti
hostname canonicalization worker
117-05-14T11:04:25.604-0400 I FTDC [initandlisten] Initializing full-time (agnostic data capture with directory 'C:/data/db/diagnostic.data' 017-05-14T11:04:25.622-0400 I NETWORK [initandlisten] waiting for connections
          14T11:04:31.458-0400 I NETWORK [initandlisten] connection accepted from
        0.1:56451 #1 (1 connection now open)
```

URI PATH: http://localhost:<server>//count/char/

```
Sample Output Response (Obtained Through POSTMAN): [
{
```

```
"1": [
  "drum",
  "d",
  "1"
},
 "2": [
  "van",
  "v",
  "1"
},
 "3": [
  "sucessful",
  "s",
  "3"
},
{
 "4": [
  "triumph\"",
  "1"
},
{
 "5": [
  "queenelizabeth",
  "q",
  "1"
},
 "6": [
  "poopooguys",
  "o",
  "4"
},
 "7": [
  "samosa",
  "z",
  "0"
}
```

Next Step Implementations

Perform input validations, Exceptional handling
Add additional scenarios in REST
Add additional business cases itself
Support for Reading/Writing XML
Support for Reading/Writing EXCEL
JAVA 8 CONCEPTS (Streams, Lambda)
Using polymorphism , abstract, overriding concepts
Unit testing (Junit + Mockito +Coverage)
Add security layer
Possible Integration testing
Integration to Angular Frontend
Building Project using Jenkins
Data structure concepts - Binary search, constant time
Possible Threading scenario