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.

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```

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\"",
   "m",
   "1"
 },
 {
  "5": [
   "queenelizabeth",
   "q",
"1"
},
  "6": [
   "poopooguys",
   .
"o",
   "4"
 },
  "7": [
   "samosa",
   "z",
   "0"
 }
]
```

ADDED IMPLEMENTATION

//Input Type: JSON

```
https:<server>/CntCharService/json/addInput
 //Add string and characters to db (single and multiple request)
 SAMPLE REQUEST 1
       {"stringInput": "Ram", "charInput": "v"},
       {"stringInput": "JohnJ", "charInput": "j"}
 ]
 SAMPLE RESPONSE 1 (NORMAL)
    "STATUS": "SUCCESS",
   "DESCRIPTION": "3 records inserted into db"
 SAMPLE RESPONSE 2(FAILURE)
    "STATUS": "FAILURE",
   "DESCRIPTION": "Error while inserting records into db"
 https:<server>/CntCharService/json/UpdateInput
 //Modifying the string and characters to db (single or multiple request)
 SAMPLE REQUEST 1
 [
       {"id":"1","stringInput": "Vivek1","charInput": "v"},
       {"id":"2",stringInput": "Vivek2","charInput": "j"}
 ]
 SAMPLE RESPONSE 1 (NORMAL)
    "STATUS": "SUCCESS",
   "DESCRIPTION": "2 records updated into db"
 SAMPLE RESPONSE 2(FAILURE)
    "STATUS": "FAILURE",
   "DESCRIPTION": "Error while updating records into db"
 }
 Next Step Implementations
Integration with MongoDb
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