

Spring Boot Application Counter

This boot application implements following:

1. Search the texts from paragraph that return the counts for occurrence of each text. Sample request below in Task1, which accepts the list of texts as JSON request. The service is protected with basic authentication.
2. Provide the top N (N number is applied as Path Variable) Texts, which has the highest counts in the paragraphs provided.

Sample Paragraph(paragraph.txt) is under src/main/resources/content

Below steps to be followed for build, run and test this application:

- 1) Download the count repository:

<https://github.com/rjavarria/boot-counter.git>

Counter boot application runs on port 8081. If conflicts with port number, port number can be configured at `src\main\resources\application.properties`.

- 2) Build the project:

```
$ ./gradlew build
```

Or

```
$ gradlew.bat build
```

```
rjavaria@AUSYDN0H484967 MINGW64 /c/Data/projects/assign/counter
$ ./gradlew build
:compileJava
C:\Users\rjavaria\.gradle\caches\modules-2\files-2.1\org.springframework\spring-context\4.3.10.RELEASE\645ce6fdb38448d183a1374506fc24036009869\spring-context-4
```

- ### 3) Run the Counter Server boot

```
$ ./gradlew bootRun
```

```

rjava@AUSYDNOH484967 MINGW64 /c/Data/projects/assign/counter
$ ./gradlew bootRun
:compileJava UP-TO-DATE
:processResources UP-TO-DATE
:classes UP-TO-DATE
:findMainClass
:bootRun

```

```
13:09:58,524 |-INFO in org.springframework.boot.logging.logback.SpringBootJoranC
onfigurator@44d74990 - Registering current configuration as safe fallback point
```

CONCLUSIONS

```
:: Counter REST Service :: Spring Boot :: (v1.5.6.RELEASE)
31-Aug-2017 13:09:59.012 [main] INFO a.c.i.s.c.CounterServerBoot - Starting CounterServerBoot on AUSYDNOH484967 with PID 54816 (C:\Data\projects\assign\counter\build\libs\counter-server-boot-0.1.0.jar started by rjavaia in C:\Data\project\assign\counter)
```

- 4) Testing of Task1: Search the following texts, which will return the counts respectively.

Request:

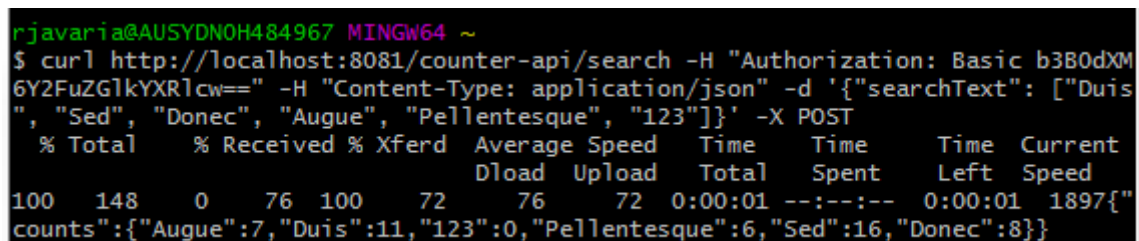
```
$ curl http://localhost:8081/counter-api/search -H "Authorization: Basic b3B0dXM6Y2FuZGllYXRlcw==" -H "Content-Type: application/json" -d '{"searchText": ["Duis", "Sed", "Donec", "Augue", "Pellentesque", "123"]}' -X POST
```

OR

```
curl http://localhost:8081/api/counter/search -H "Authorization: Basic b3B0dXM6Y2FuZGllYXRlcw==" -H "Content-Type: application/json" -d '{"searchText": ["Duis", "Sed", "Donec", "Augue", "Pellentesque", "123"]}' -X POST
```

Response:

```
{"counts":{"Augue":7,"Duis":11,"123":0,"Pellentesque":6,"Sed":16,"Donec":8}}
```



```
rjavaria@AUSYDN0H484967 MINGW64 ~
$ curl http://localhost:8081/counter-api/search -H "Authorization: Basic b3B0dXM6Y2FuZGllYXRlcw==" -H "Content-Type: application/json" -d '{"searchText": ["Duis", "Sed", "Donec", "Augue", "Pellentesque", "123"]}' -X POST
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total     Spent    Left     Speed
100  148    0   76 100    72     76    0:00:01 --:--:-- 0:00:01 1897{"counts":{"Augue":7,"Duis":11,"123":0,"Pellentesque":6,"Sed":16,"Donec":8}}
```

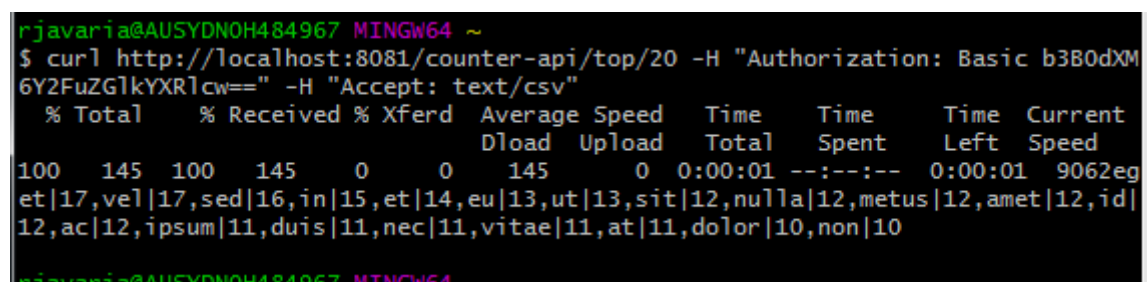
- 5) Testing of Task2: Provide the top 20 (as Path Variable) Texts, which has the highest counts in the Sample Paragraphs provided.

Request:

```
curl http://localhost:8081/counter-api/top/20 -H "Authorization: Basic b3B0dXM6Y2FuZGllYXRlcw==" -H "Accept: text/csv"
```

Response:

```
eg|17,vel|17,sed|16,in|15,et|14,eu|13,ut|13,sit|12,nulla|12,metus|12,amet|12,id|12,ac|12,ipsum|11,duis|11,nec|11,vitae|11,at|11,dolor|10,non|10
```



```
rjavaria@AUSYDN0H484967 MINGW64 ~
$ curl http://localhost:8081/counter-api/top/20 -H "Authorization: Basic b3B0dXM6Y2FuZGllYXRlcw==" -H "Accept: text/csv"
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total     Spent    Left     Speed
100  145  100  145    0    0   145     0:00:01 --:--:-- 0:00:01 9062eg|17,vel|17,sed|16,in|15,et|14,eu|13,ut|13,sit|12,nulla|12,metus|12,amet|12,id|12,ac|12,ipsum|11,duis|11,nec|11,vitae|11,at|11,dolor|10,non|10
rjavaria@AUSYDN0H484967 MINGW64 ~
```

- 6) Authentication failed case.

```
rjavaria@AUSYDN0H484967 MINGW64 ~  
$ curl http://localhost:8081/counter-api/search -H "Authorization: Basic b3B0dXM6Y2FuZG1kYXRlcw==" -H "Content-Type: application/json" -d '{"searchText": ["Duis", "Sed", "Donec", "Augue", "Pellentesque", "123"]}' -X POST  
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current  
                                 Dload  Upload   Total   Spent    Left   Speed  
100  192    0  120  100    72    120    72  0:00:01 --:--:--  0:00:01 12800{"  
timestamp":1504095446618,"status":401,"error":"Unauthorized","message":"Bad cred  
entials","path":"/counter-api/search"}
```