Anggie Legiando Pratama Individual Assignment Stream Processing & Real Time Analytics

# Individual Assignment Solution Guide

All code also available in my Github with the following link:

https://github.com/legiando/SparkStreamingMBD2018-19

This report will guide you with the output that I have in the exercise:

#### 1. Mandatory Assignment

#### 1.1.Part one: Connect to Cluster

I successfully solved this question. As you mentioned in class, I don't need to submit anything to this part, because it should be justified if I can solve the other questions.

#### 1.2.Part two: Madrid instead of #

The output is the following:

```
| Mashtag| hashtag_count|
| Moshtag| hashtag_count|
| Mostag| hashtag_sount|
| Mostag| hashtag_s
```

1

## 1.3.Part three: Spark SQL

The output is the following:

```
----- 2019-07-04 10:47:40 -----
| words|words_count|
          22|
18|
17|
|Madrid|
   que|
     уΙ
     la|
                16 |
11 |
    del
    un|
                  7
    no|
                 6|
6|
    los|
    E1|
Time: 2019-07-04 10:47:40
('@Roquerol', 1)
('debería', 2)
('Tesla', 1)
('cambia', 1)
('los', 6)
('datos', 1)
('y', 17)
('española', 1)
('', 4)
('Carlos', 1)
----- 2019-07-04 10:47:50 ------
| words|words_count|
| la| 27|
|Madrid| 17|
| que| 17|
                  16
      уΙ
                 10|
    del
    un|
                  9
    En|
    con
    los
    por|
Time: 2019-07-04 10:47:50
('Fernández', 2)
('los', 7)
('', 3)
('con', 8)
('antelación', 1)
('y', 16)
('Central', 1)
('empezaron', 1)
('https://t.co/EPDjDLiEeM', 1)
('0', 1)
```

#### 2. Bonus Assignment

Apps > SparkStreamingPratama

#### 2.1.Personal Twitter Account Credential

I use my own twitter account credential as you can see below:

**App details Keys and tokens Permissions** Keys and tokens Keys, secret keys and access tokens management. **Consumer API keys** 9sKTPHAp31aYBlijFTeFcbvrP (API key) NEW kMUsnNdgsPoqdSbyZs3adz3iUw6MoRtmsc4go0xnUgkKZSWtDs~(API~secret~key)Regenerate Access token & access token secret 3106812974-drNpGWMkS3wT5JPCoj3Vbk7ZWHo5fN4KHOFma6F (Access token)  $tpXPfEd0aNaL6WVxeJkt7xfEEA6DgXxWsv5d2KSGfYsQh \ (Access \ token \ secret)$ Read and write (Access level) Revoke Regenerate

## 2.2.Flajolet-Martin Algorithm

The output is the following: