INSTALLATION MANUAL

Version 2.0

Installation commands require Ubuntu 16.04 LTS OS:

Python 3.5 and pip:

- sudo apt-get update
- sudo apt-get install python3.5
- sudo apt-get install python3-pip # for pip3 required tool installation

MySQL server and apache2:

- sudo apt-get install apache2
- sudo apt-get install mysql-server=5.7.21-0ubuntu0.16.04.1
- sudo apt-get install mysql-client
- sudo pip3 install mysqlclient
- sudo apt-get install python3-mysqldb

MySQL client:

Open a linux terminal inside the repository called 'mysqlclient-1.3.12' and type the following commands:

- sudo apt-get install libmysqlclient-dev
- python3.5 setup.py build
- sudo python3.5 setup.py install

Now all Mysql server and client required tools are installed.

Configurations and running:

I. <u>Task 1: Random automatic summarization</u>

1. Set Up a Virtual environment

- Navigate to the task 1 project folder projetLong.
- Install virtual environment using : \$ sudo pip3 install virtualenv
- Type \$ virtualenv env. This will create a new folder named env.
- Navigate to folder env/bin using \$ cd env/bin.
- execute the activation file, it can be done using:

- \$ chmod +x activate
- o \$./activate

or simply

\$ python3.5 activate_this.py

2. Django 2.0.2 installation:

- Go back the parent folder using \$ cd ../..
- Install Django using: \$ sudo pip3 install django

\$ python3.5 manage.py migrate

\$ python3.5 manage.py runserver

3. MySQL configuration:

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a.	Create a new database for events collection					
	Launch the following SHELL command, opened in the repository where you					
	can see all the project folders and files, to access MySQL monitor :					
	\$ mysql -u root -p					
	You will be asked to type your MySQL password, by default it is the same					
	password as for your Linux Ubuntu session.					
	Type your password, then type the following MySQL queries:					
	mysql > CREATE DATABASE tweegle; mysql > exit;					
	The command below will import the existing events database to the recently					
	created MySQL DB:					
	\$ mysql -u root -p tweegle < tweegle.sql					
	You can start now you MySQL server (it is by default using the port 3306 on					
	your localhost):					
	\$ sudo /etc/init.d/mysql start					
	or \$ sudo service mysql start					
	Now it is critical to open a terminal inside the subfolder 'projetLong' of the					
	parent folder called 'projetLong' and type:					
	\$ vim settings.py					
	And add your MySQL password between the empty quotes, line 86.					
	Once this modification is done and saved, you can go back the parent folder					
	and run the django application, this can be done like below:					
	\$ cd					
	\$ python3.5 manage.py makemigrations (To make necessary migrations)					

(To apply the migration)

(To run the application server)

Now the application is running, you can simply open Google Chrome browser
and type the address of the application :

http://localhost:8000/tweegle

- □ You can type keywords and select the a corresponding event from the drop down list.
- ☐ Finally, To stop the application press from keyboard:
 - 1. CTRL-C to end the running process.
 - 2. Once the django application is shutdown, you should shutdown the mysql server. To stop MySQL server, please use:
 - \$ sudo /etc/init.d/mysql stop or \$ sudo service mysql stop

Note: To change your MySQL password follow the steps bellow:

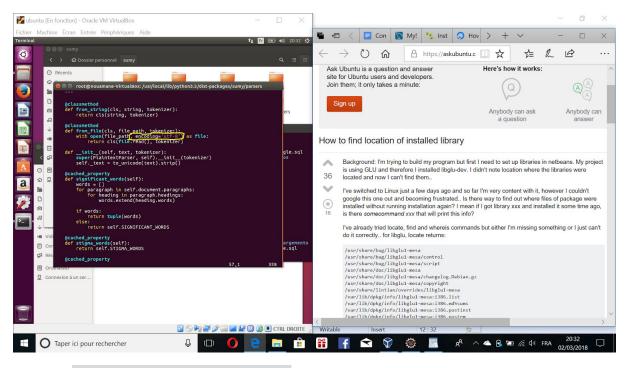
- 1. Connect to MySQL with your current password.
- Use the MySQL query below to define your new MySQL password :
 SET PASSWORD FOR 'root'@'localhost' = PASSWORD('new_password');
- 3. You have to propagate this change to 'settings.py' file like for the first time.

II. <u>Task 2: State-of-the-art automatic summarization methods</u>

Navigate to task 2 project folder Sumy using: \$ cd Sumy.

Once inside the folder use these following commands:

- \$ sudo python3 setup.py install
- \$ sudo pip3 install nltk
- \$ cd /usr/local/lib/python3.5/dist-packages/sumy
- sudo -i
- \$ chmod 774 plaintext.py in order to have the modification privilege.
- add a second parameter to class method from_file : encoding='utf-8' (see the picture below)



- \$ sudo easy_install3 -U requests
- \$ sudo apt-get install python-requests
- ❖ \$ python3.5
 - >> import nltk
 - >> nltk.download()
 - >> d
 - >> [
 - >> punkt
 - >> q
 - >> exit()
- In order to execute the summarization methods, go the folder (Summarization) using this command: \$ cd ../Summarization.
- Generate the post-filtered events collection using: \$ python3.5 file_process.py
- For Lexrank summarization method, use : \$ python3.5 lex_rank.py
- For Textrank summarization method, use: \$ python3.5 text_rank.py
- For SumBasic summarization method, use: \$ python3.5 sum_basic.py

You can see the results for the 3 methods in the following folders: LexrankResult, TextrankResult and SumBasicResult.