**Technical Manual - Tradexa**

The web app runs efficiently on mobiles, tabs, laptops, computers and other digital devices that support surfing through internet. For accessing the website, one needs good internet connectivity, an internet browser and a screen to view the results as well as a keyboard or virtual keyboard to use the functionalities.

If one needs to access or download the source code, he or she can easily download it from GITHUB\_PAGE\_SITE.

Installation of Dependencies and Libraries/Packages:

If one feels the need to run the code on a local server, there are a few dependencies they may need to install. All the dependencies and libraries that were used in the model are mentioned in a file called “requirements.txt” in the root / base directory.

There are 2 particular ways to install these libraries:

One can run the pip command: ‘pip install –r requirements.txt’ using the command prompt in the base directory.

Refer https://note.nkmk.me/en/python-pip-install-requirements/ for more guidance.

Otherwise use the following commands for installing a particular library individually:

Step 1 :- Install redis server

Windows:- <https://download.redis.io/redis-stable.tar.gz>

MacOS:- <https://redismodules.s3.amazonaws.com/redis-stack/redis-stack-server-6.2.2-v3.monterey.arm64.zip>

Step 2 :- Install below mentioned packages/libraries using the given commands.

Note:- Make sure python is installed if not download using the link https://www.python.org/downloads also install pip using the command

python get-pip.py

|  |  |
| --- | --- |
| **Library** | **Command** |
| aioredis==1.3.1 | Pip install redis-server==1.3.1 |
| beautifulsoup4==4.10.0 | Pip install beautifulsoup4==4.10.0 |
| celery==5.0.5 | pip install celery==5.0.5 |
| channels==3.0.3 | Pip install channels==3.0.3 |
| channels-redis==3.2.0 | pip install channels-redis==3.2.0 |
| django | Pip install django |
| django-celery-beat==2.2.0 | Pip install django-celery-beat==2.2.0 |
| django-celery-results==2.0.1 | Pip install django-celery-results==2.0.1 |
| django-crispy-forms==1.11.2 | pip install django-crispy-forms==1.11.2 |
| Keras==2.8.0 | Pip install keras==2.8.0 |
| newspaper3k==0.2.8 | Pip install newspaper3k==0.2.8 |
| nltk==3.6.6 | Pip install nltk==3.6.6 |
| numpy==1.21.3 | Pip install numpy==1.21.3 |
| oauthlib==3.1.1 | Pip install oauthlib==3.1.1 |
| Plotly==5.7.0 | Pip install plotly==5.7.0 |
| redis==3.5.3 | Pip install redis==3.5.3 |
| razorpay==1.2.0 | Pip install razorpay==1.2.0 |
| tweepy==4.4.0 | Pip install tweepy==4.4.0 |
| websockets==9.1 | Pip install websockets==9.1 |
| whitenoise==5.3.0 | Pip install whitenoise==5.3.0 |
| yahoo-fin==0.8.9.1 | Pip install yahoo-fin==0.8.9.1 |

Steps post installation of above libraries/packages :

Step1 : Go to project directory

Step 2 : Open 1st terminal and run command **python manage.py makemigrations** and after run command **python manage.py migrate**

Step 3 : After all the database and tables are migrated successfully run the **command python manage.py runserver**

Step 4 : Open 2nd terminal and run the command **celery -A Tradexa.celery worker --pool=solo -l info**

Step 5 : Open 3rd terminal and run the command **celery -A Tradexa beat -l info**

Step 6 : Open chrome or any browser and type <http://127.0.0.1:8000/> in the url which is the default url for the porject.