

Python configuration and setup

We need to install python and pip on Ubuntu.

```
sudo apt install python3-pip
```

Now install pip-tools package so that we can get all the compatible package for our development based on PySpark's version.

There is a file called requirement.txt. This file has the list of all the modules used for the project.

Before running the backend server, we need to create a virtual environment.

Navigate inside the project folder where you can find the "AdvDB_backend" folder. On this level, open a terminal and write the following commands,

```
python -m venv <name of the environment>
```

In our case the environment name is AdvDBWebsite_venv.

Now when the virtual environment is created, we need to activate it.

```
source <name of the environment>/bin/activate
```

Now then our venv is activated, go inside the AdvDB_backend folder and in the terminal run the command to compile and install the required packages.

To Compile,

```
pip-compile
```

To install packages written in requirement.txt,

```
pip-sync
```

Once that is done, run this command to start the Django backend server,

```
python manage.py runserver
```