

MMA Application Setup

The first step is to create the empty SQL database. To do this go to the MySQL docs and complete the steps to install and run your empty MySQL database.

<https://dev.mysql.com/doc/mysql-getting-started/en/#mysql-getting-started-installing>

Once the database has been created, open the project within your IDE. If you haven't got an IDE yet Pycharm Community Edition or Visual Studio is a great choice. This is the link to download the project... https://github.com/Goon-Bug/mma_stats_api

Once opened go to the database.py script and uncomment the database creation section and run the code. To uncomment remove the '#' from the start of each line.

Once the code has been run and the database successfully created, comment the lines of code again so that it doesn't try to create a second database.

Once the database has been created, you can then run the 'update_database.py' script to fill the database with current fighters stats. To edit what divisions are updated into the database, change the second argument in the following code...

For example...

Use this code to update all divisions:

```
update_database(driver, 'all')
```

Or you can update divisions individually by using this key...

```
1: "heavyweight",
2: "lightheavyweight",
3: "middleweight",
4: "welterweight",
5: "lightweight",
6: "featherweight",
7: "bantamweight",
8: "flyweight",
9: "wfeatherweight",
10: "wbantamweight",
11: "wflyweight",
```

```
12: "wstrawweight",  
13: "watomweight"
```

An example of updating certain divisions:

```
update_database(driver, [1, 4, 5])
```

This would update the heavyweight, welterweight and lightweight divisions.

Once the database is created and updated you're ready to run the API and open up the home page for the data to be displayed easily.

To be able to run the web page, first you must run Uvicorn. To do this, in the IDE terminal, enter the command:

```
uvicorn main:app --reload
```

This will run the API server so that you can display the web page. Once running go to the server address displayed in the terminal and the home page will be displayed.

This page can then be used to display any MMA stats needed in a handy JSON format.

Have fun with your new easily accessible and updateable MMA Statistics database!