ISTE 610

Mongodb project - setup and user guide

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## Notes

The original setup of this database was done on a Linux server. So paths are given as the Linux values, however the windows values will also be provided.

Authentication was also added to our database. This allowed the team to work collaboratively on a single instance that was secured and made public.

Instructions are included for setup below.

## Step 1: unzip mongo DB files to DB server

The zip file is called *610prj\_final\_db.zip* into the mongo data directory. Inside here will be a single folder, called 610prj. This needs to be placed in the mongo DB data directory. (Will be shared upon request)

Linux:

/opt/mongo/data/**610prj**

Windows:

<*MongoDataRoot*>/data/**610prj**

## Step 2: Create a user admin in the DB:

**Please note. This step is complete. It is here for reference only**

-Start the instance

-Run the command below

use admin

db.createUser(

{

user: "siteUserAdmin",

pwd: "612Admin15",

roles: [ { roles: "userAdminAnyDatabase", db: "admin" } ]

}

)

## Step 3: add authentication to server

In the mongo directory add a new directory called ***conf***, and in that directory add a configuration file that contains the following string:

auth = true

A file has been provided in the setup folder that contains the string you need.

Please note, the ***conf*** folder should be placed in the mongo root where the bin directory is.

Restart the server with the command below:

Linux:

/opt/mongo/bin/mongod --config /opt/mongo/conf/mongodb.conf --dbpath /opt/mongo/data/610prj

Windows:

*<mongo\_root>*/bin/mongod --config *<mongo\_root>*/conf/mongodb.conf --dbpath *<mongo\_data\_root>*/data/610prj

## -Create users

**Please note. This step is complete. It is here for reference only**

Next you will need to create a few users. I have created one app user and one DBA user. To do this you will need to connect to the database as the user that you created in the previous step.

To do so you will need to run the db.auth() command.

Connect to the DB as you normally would using the mongo command and switch to the prj database.

Mongo

use prj

db.auth("siteUserAdmin", "612Admin15")

Create the application user

use prj

db.createUser(

{

user: "appuser",

pwd: "ISTE610krt",

roles: [

{ role: "readWrite", db: "prj" }

]

}

)

Create the DBA user

use prj

db.createUser(

{

user: "dbauser",

pwd: "ISTE610krtdba",

roles: [

{ role: "dbAdmin", db: "prj" }

]

}

)

If the authentication setup fails, then you can always connect to the server that we used for the project. To do so just run this command to start the mongo client:

mongo [74.67.180.218:27017](http://74.67.181.218:27017/)

use prj

db.auth("appuser", " ISTE610krt")

## Step 3: Install Python

Download and install Python 2.7.9 from the python.org web site. Setup is straight forward.

## Step 4: Install pymongo drivers

The drivers can be found here for the specific system that you are installing on. If you are installing on windows then you need to scroll down to the bottom and install the version that lines up with the chipset and python version you have chosen.

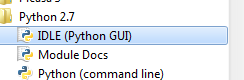
<https://pypi.python.org/pypi/pymongo/>

## Step 5: Setup source code

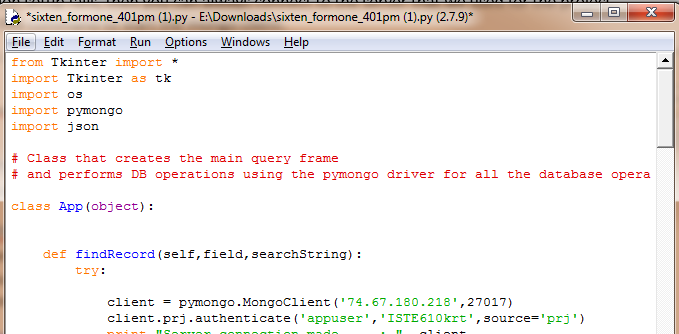
Extract the src.zip folder somewhere on your system.

From there you will need to run the sixten\_formone.py command from python GUI

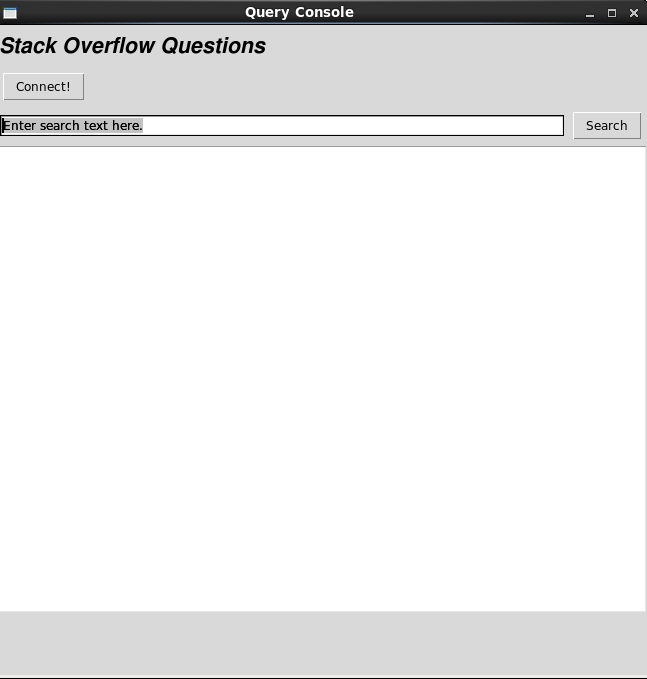
Launch Python:

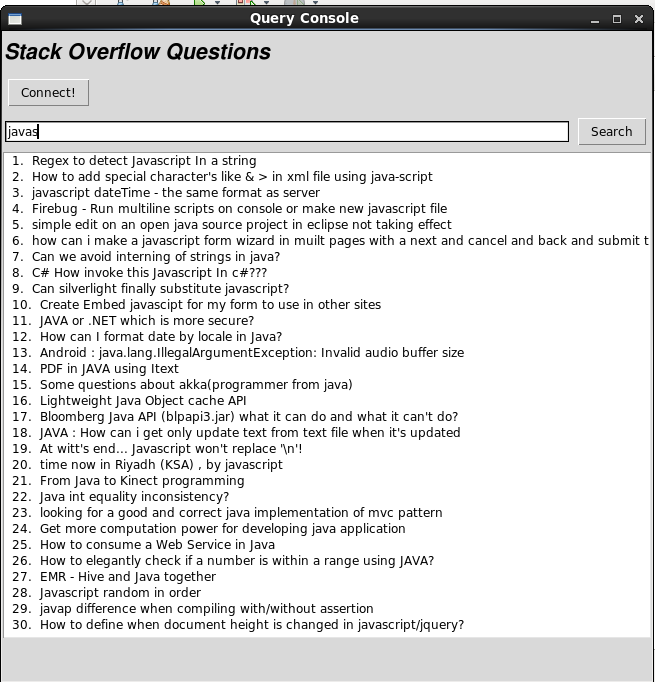


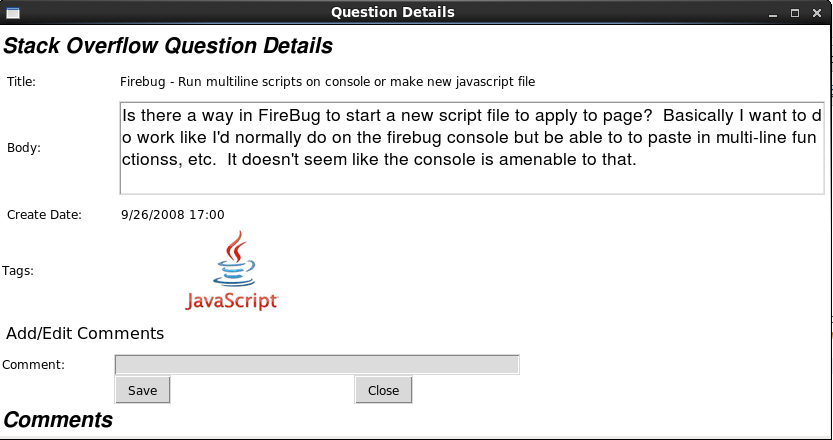
Once you launch python, you will need to open up the file in the src folder. Once that has been opened, you can run file in python by pressing the F5 key.



## Step 6: use the application







## Data load commands

Import Images:

/opt/mongo/bin/ --username appuser --password ISTE610krt --db prj --collection images --type csv --file /home/mongo/code/SixTen/src/data/ImageTags.csv --headerline

Import stack:

/opt/mongo/bin/mongoimport --username appuser --password ISTE610krt --db prj --collection stack --type csv --file /home/mongo/code/SixTen/src/data/train-sample-final\_load.csv --headerline