1. about the database I use:

I choose to use MongoDB Atlas

a. It is a cloud-based database. MongoDB Atlas is a fully-managed cloud database that handles all the complexity of deploying, managing, and healing your deployments on the cloud service provider of your choice (AWS , Azure, and GCP). MongoDB Atlas is the best way to deploy, run, and scale MongoDB in the cloud.

b. The project data does not have complex relations. It is easier to use the MongoDB because it is like the operation of json file

c. I create the cloud database for free

1. How to create the database:
2. Sign in page:

https://account.mongodb.com/account/login?nds=true&\_ga=2.148904374.1076191997.1673157179-341948187.1667526511

1. Click create to create a cluster. If you are invited to join an organization, you can leave that organization and so you can create your own.

Select MongoDB Atlass because it contains more services, and click on next

Graphical user interface, text, application

Description automatically generatedThen create organization as the owner, and you can add users later.

Create a new project

Create a database (owner has to do it)

Build a database: chose “shared” because it is free.

Graphical user interface, text, application, chat or text message

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Create a shared cluster

Graphical user interface, text, application, email

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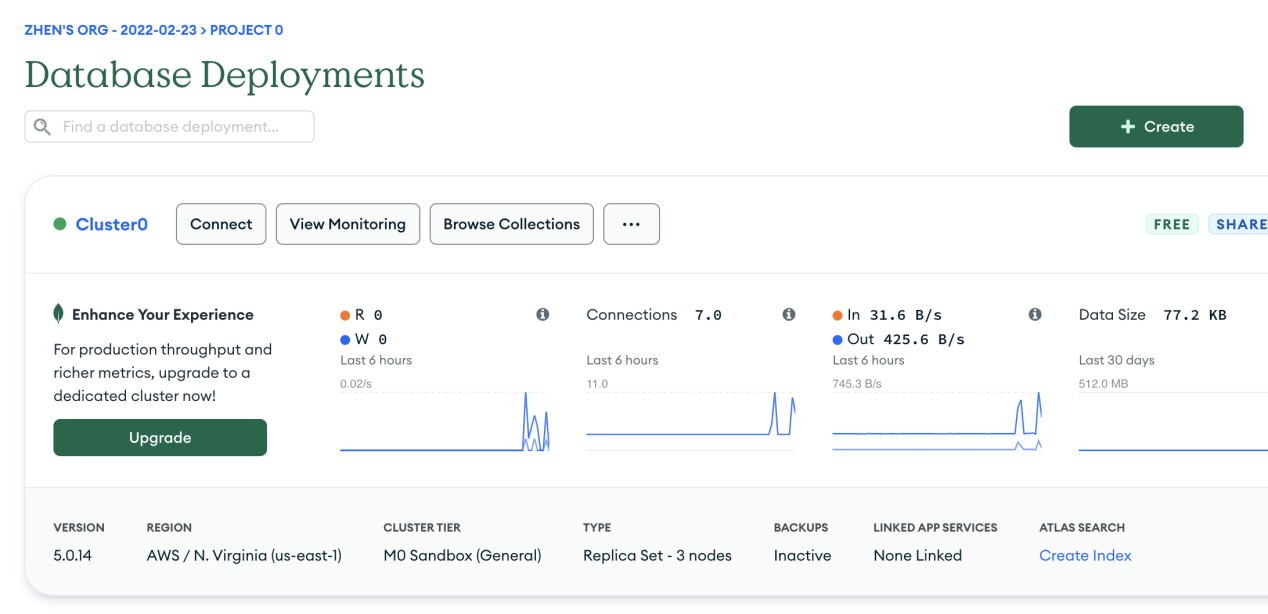
Graphical user interface, text, application

Description automatically generated

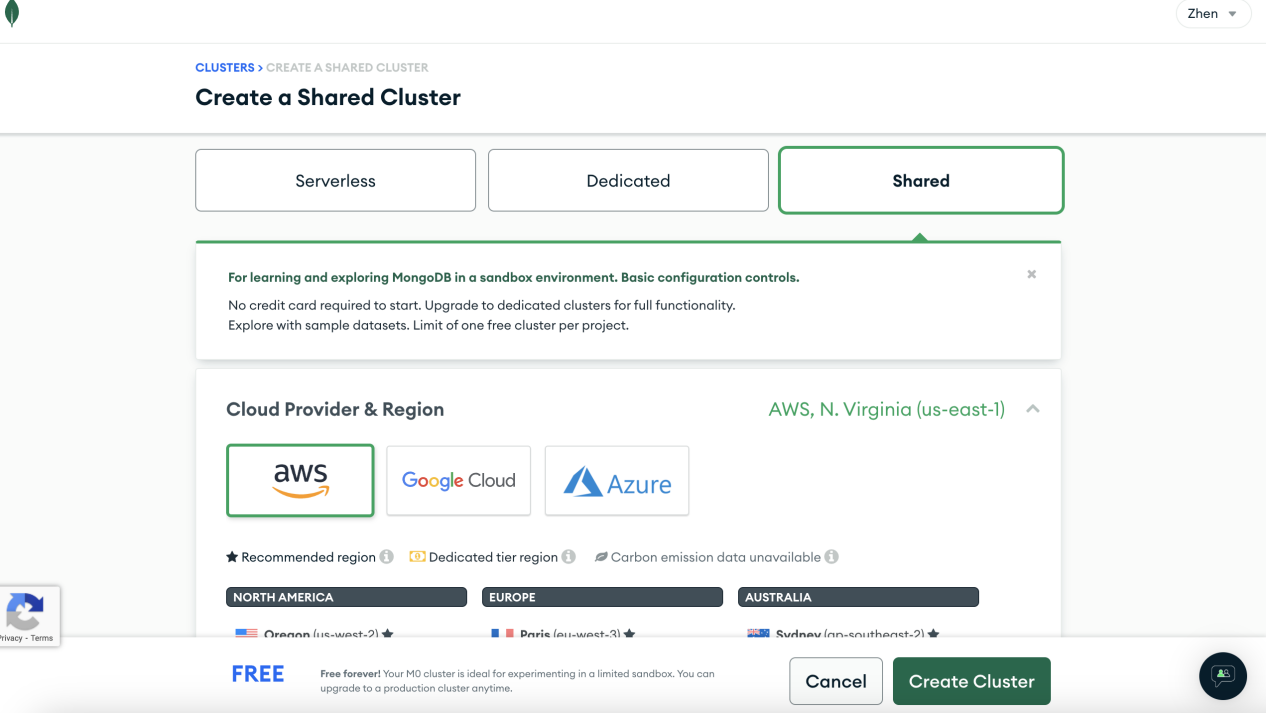
Graphical user interface, text, application

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Useed a temp IP to move on to create a database.

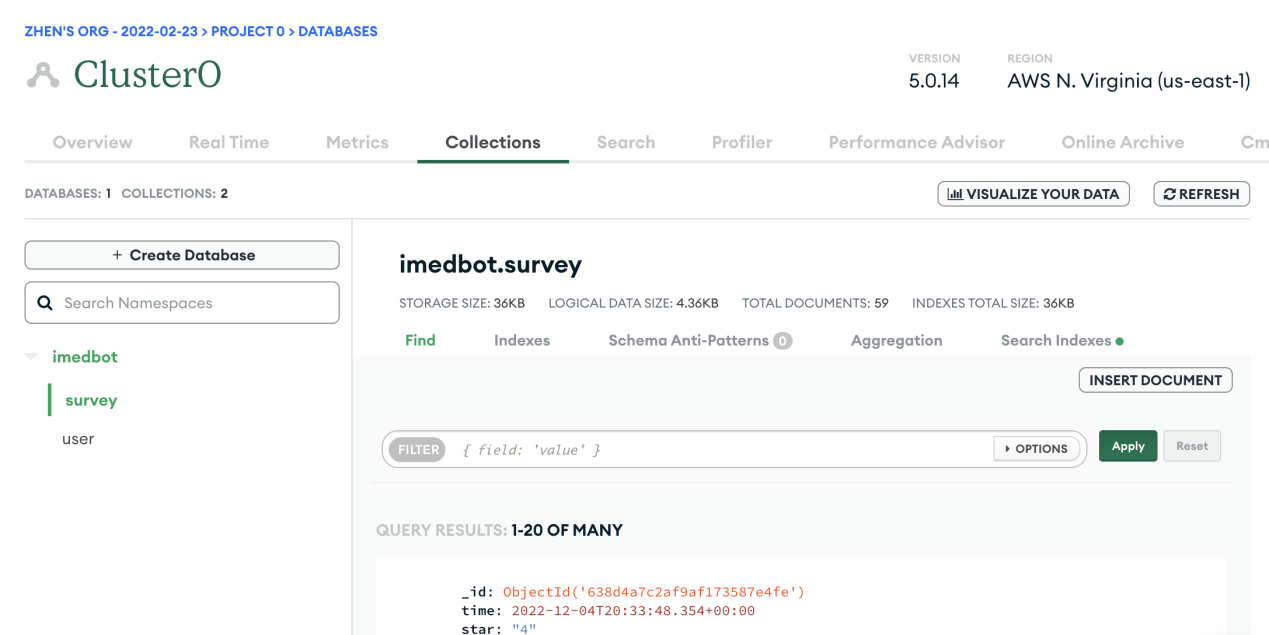
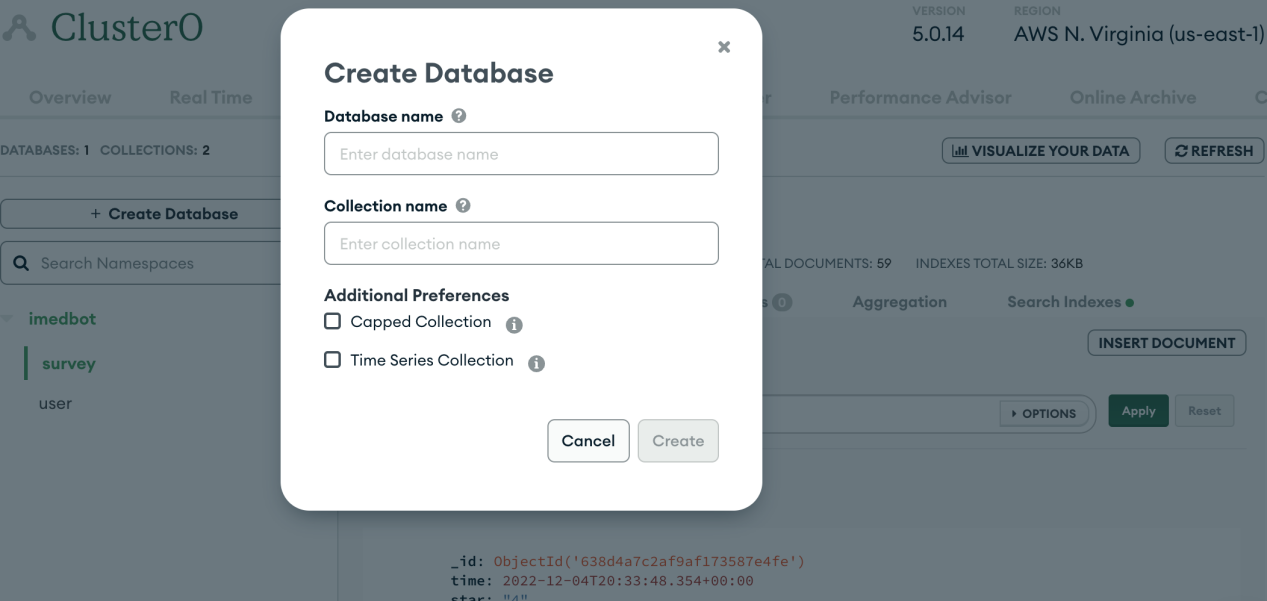


c. Choose the settings. Only shared is free. I just use the default settings and click create cluster.

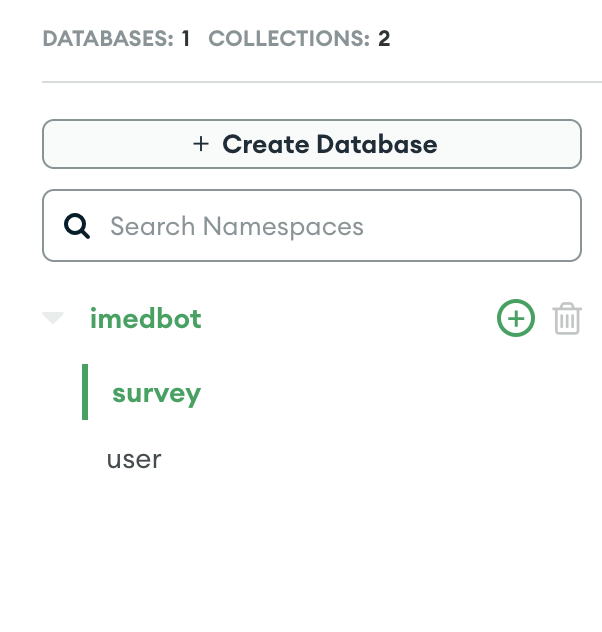


d. After creating the cluster, go into it and click collections

Create database and collections like this by click ‘create database’

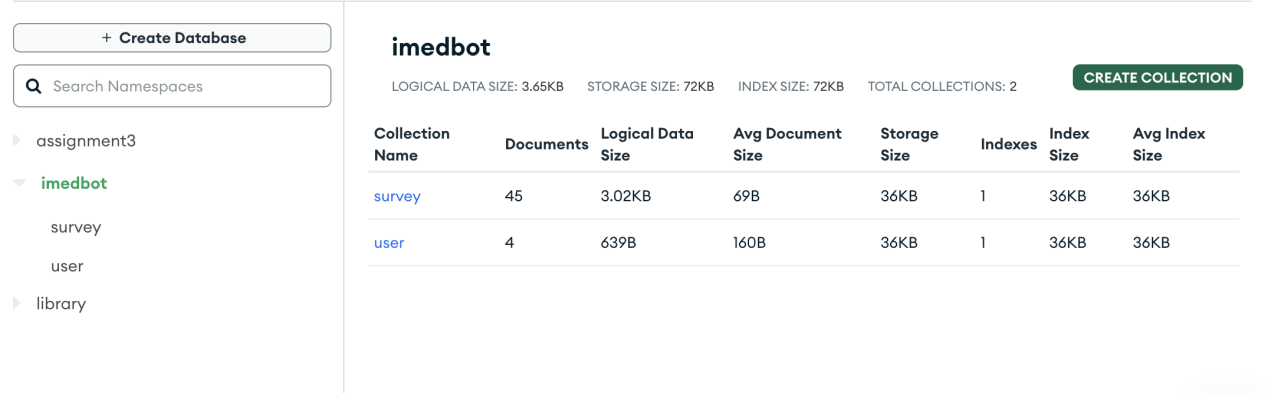


d. Create more collections by clicking ‘+’.



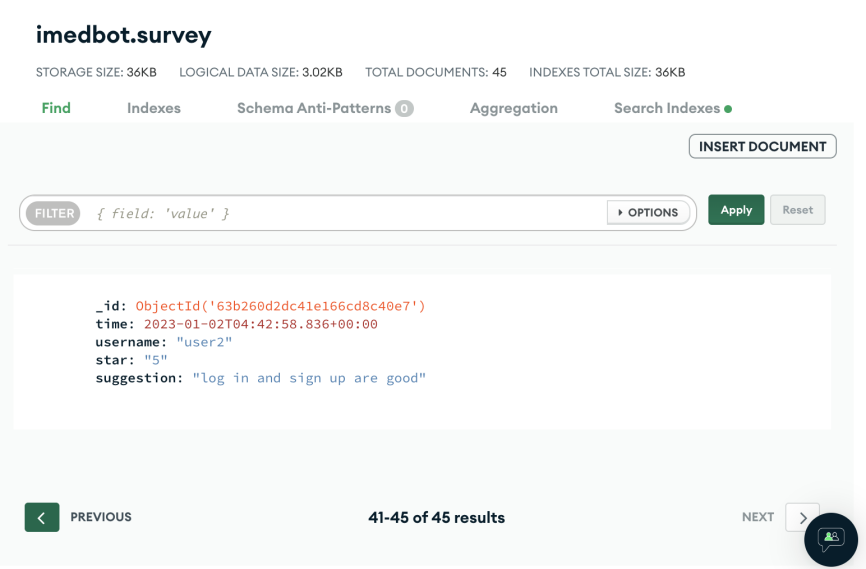
1. The structure of database:

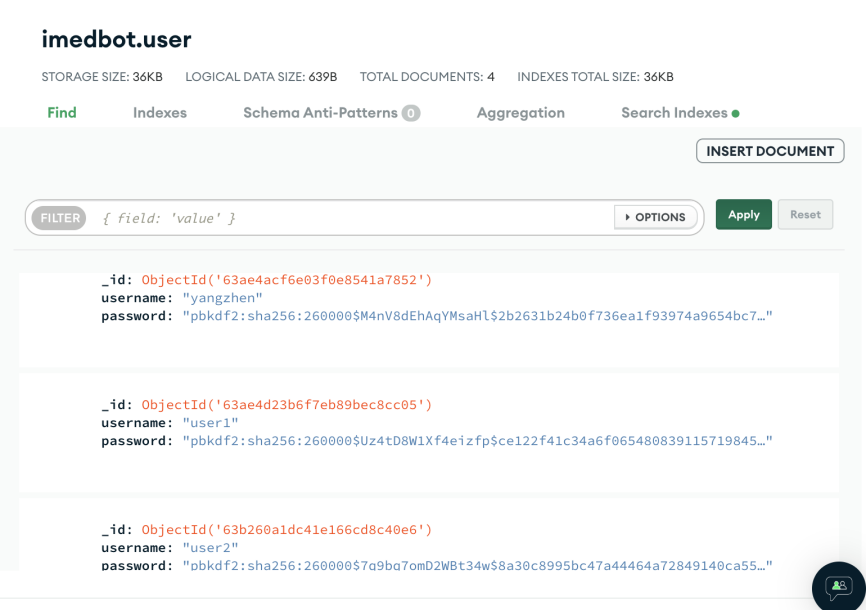
a.I create the database called imedbot. Multiple collections can be created in MongoDB database. “A collection is a grouping of MongoDB documents. Documents within a collection can have different fields. A collection is the equivalent of a table in a relational database system.”



b. I create two collections. One is used for storing users’ survey and the other is used for storing users’ username and password.

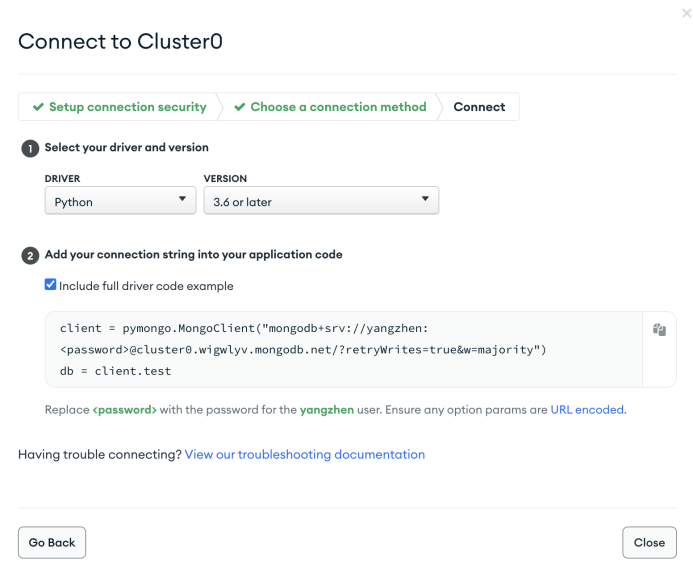
For security reasons, I store the password by using encryption and cannot see the plaintext of password.





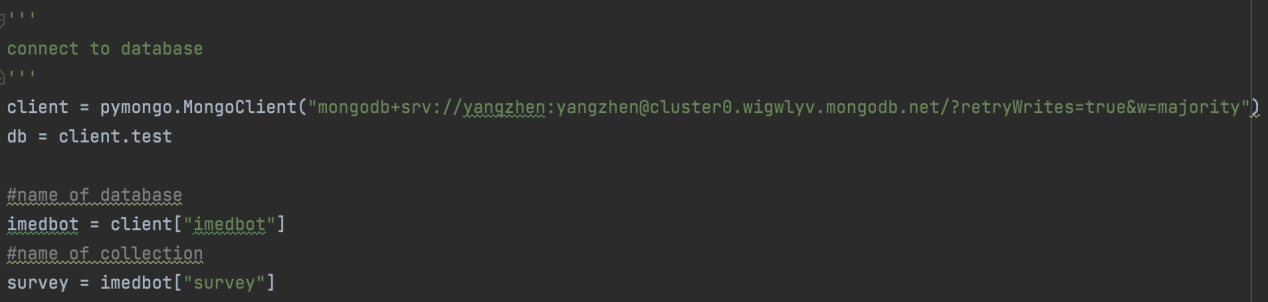
1. connecting to python project

The guide from MongoDB website:

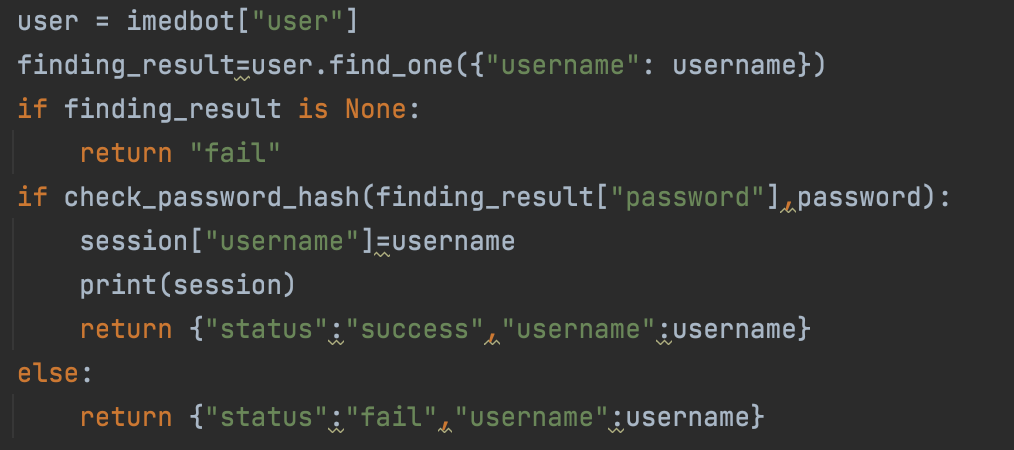


An entry of a MongoDB database is collected from the frontend of the iMedbot, and then it will be sent to the backend (application.py), which will place it into the database. The screenshot below is about how the application.py communicate with both the MongoDB and the AWS.

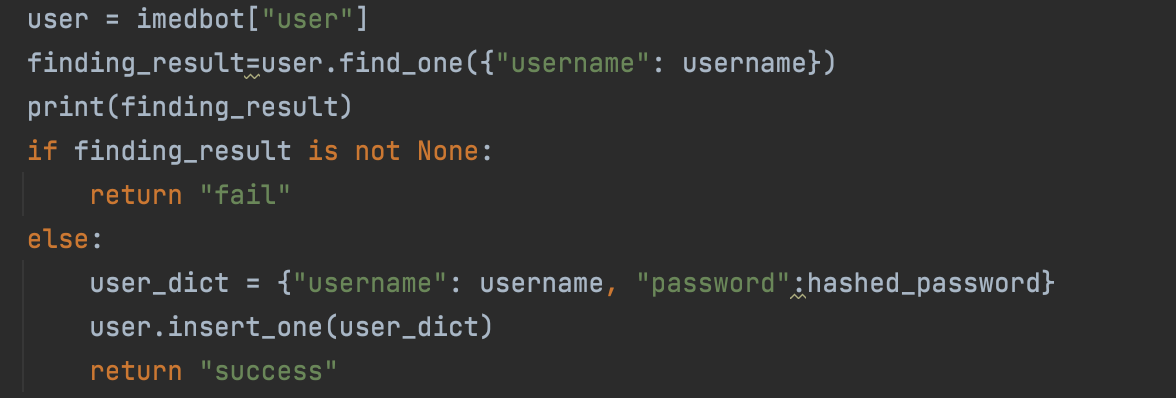
“imedbot” is the name of our current database, which contains three collections: “survey”, “user”, and “verification”



Finding:

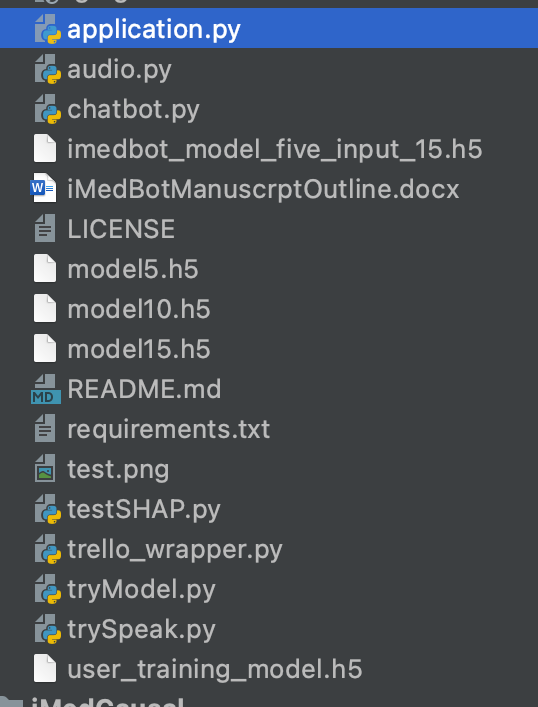


Inserting:



See the files in our current iMedbot-dev folder: audio.py and chatbot.py were from previous attempt for voice bot, but not used currently. Other files such as trySpeak.py, tryShap and etc were created for testing purpose, and they are used in the main code. Trello\_wrapper.py is used and will be moved to the utility folder. Application.py is really the only application codes (backend). We have two folders concerns the front end: static and templates (HTML). In js folder (under static folder), we have a file called iMedbot.js, which communicates with a user and collect information from a user via the “conversation”. Could search for “post” or “get”, those two commands are designed for communication between the front and back end. “Post” is used to submit the information to the server, and “get” is used to retrieve information from the server.

For example, when a user submit a survey from the website, the imedbot.js will be called.

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**Migrating Database from a personal account to project account**

<https://account.mongodb.com/account/login>

User login:

[xij6@pitt.edu](mailto:xij6@pitt.edu)

ps: 12345aBc

My user name and password JiangLab (organization) of MongoDB

Graphical user interface

Description automatically generated

Password for database connection (in your codes): 12345aBc

Once log in, go to cluster 0, one user can only create one free cluster, but a user cancer create multiple databases in one cluster. We currently have one database and three collections (forms) in this database.

Click on collections to see the current database(s). We currently have one collection for the user survey, one for the user registration, and one for verification.

5.database migration (done)

To install the database tools, follow the website:

https://www.mongodb.com/docs/database-tools/installation/installation/

Graphical user interface, text, application, email

Description automatically generated

Official guide from website:

You can download and upload the data using command line.

Graphical user interface, text, application, email

Description automatically generated

Here the password is the one that is used for database access not that for website account.

The password used for connecting database is: 12345aBc