Installation

1.	Git	C	or	ne

Steps:

git clone https://github.com/chirag-singhal/ChatBot_PS-1.git

Note:

1. Make sure git is installed

2. Navigate inside the directory

cd Chatbot_PS-1

3. <u>Virtual environment creation:</u>

A virtual environment needs to be created for managing dependencies.

python3.7 -m pip install virtualenv python3.7 -m virtualenv chatbot

4. Navigate into the server directory

____cd database_chatbot/

5. Requirements.txt:

Steps:

python3.7 -m pip install -r requirements.txt

Note:

1. Make sure python3.7 is installed

6. Superuser creation

Steps:

python3.7 manage.py createsuperuser

This will prompt you to enter an email, username and password which shall later be used to access the admin panel.

7. Mysql installation -

Install the mysql-server and start the server using the following command - sudo apt-get install mysql-server sudo systemctl start mysql sudo systemctl enable mysql

8. Mysql user creation -

Follow this blog to create a mysql user and grant all privileges to it. https://linuxize.com/post/how-to-create-mysql-user-accounts-and-grant-privileges/

9. Edit settings.py -

Edit the settings.py in Chatbot_PS-1/database_chatbot/database_chatbot, and edit the block which looks similar to the block below and replace the user, password and name with the user, password and database name you have created in mysql.

```
DATABASES = {
    'default': {
        'ENGINE': 'django.db.backends.mysql',
        'NAME': YOUR_DATABASE_NAME,
        'USER': YOUR_USERNAME,
        'PASSWORD': YOUR_PASSWORD,
        'HOST': 'localhost',
        'PORT': '3306',
      }
}
```

10. Make database migrations and create tables

Steps:

- 1. python3 manage.py makemigrations
- 2. python3 manage.py migrate --run-syncdb

11. <u>Azure -</u>

Follow this blog to configure the django app on a cloud server using nginx, supervisor and gunicorn.

https://rakibul.net/django-gunicorn-supervisor-nginx,

One can also refer to the documentation provided by Microsoft for setting up of an Linux virtual machine on Azure:

https://docs.microsoft.com/en-us/learn/modules/create-linux-virtual-machine-in-azure/

Operations Documentation ChatBot

Starting the system

To start the system, run the following command:

python3 manage.py runserver

Stopping the system

To stop the system, type the following shortcut

___Press Ctrl + C

Django Admin Panel

Django provides a ready-to-use user interface for administrative activities. It automatically generates admin UI based on your project models.

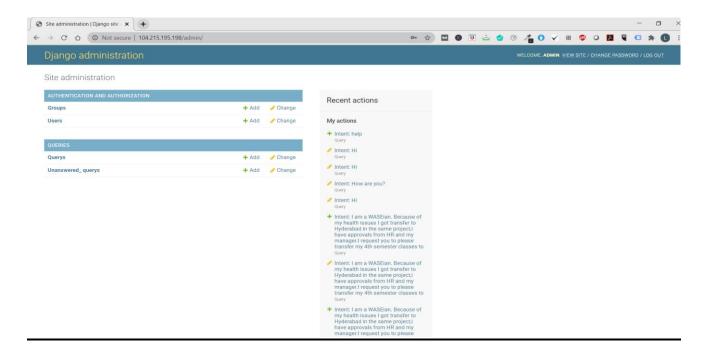
It has been designed to ensure that the user can easily add and update the intents as and when needed.

Note:

The Admin interface depends on the django.contrib module. To have it working you need to make sure some modules are imported in the INSTALLED_APPS and MIDDLEWARE_CLASSES tuples of the myproject/settings.py file.

Before launching your server, to access your Admin Interface, you need to initiate the database using the following command:

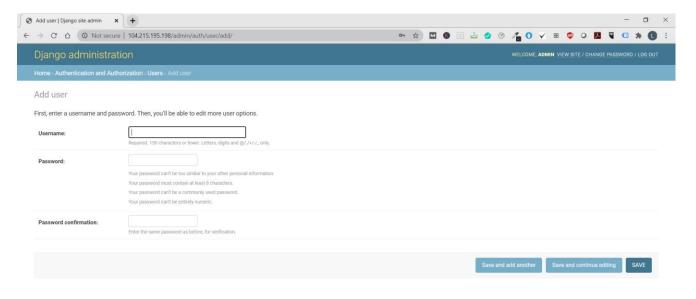
\$ python manage.py migrate



View of Django admin panel

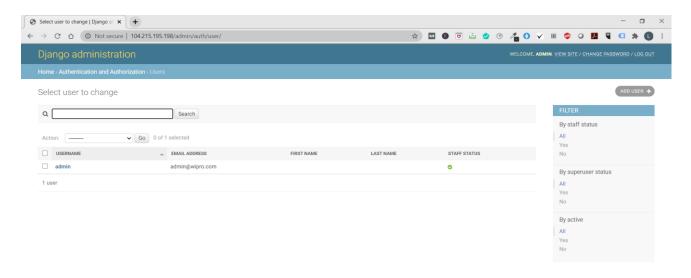
Creating an User

Click on Add User in Django admin panel and give a desired username & password.



User Creation Panel

Note: You can also modify the user using the "Change" option provided in the main section of the panel.



User Modification Panel

Importing and exporting intents

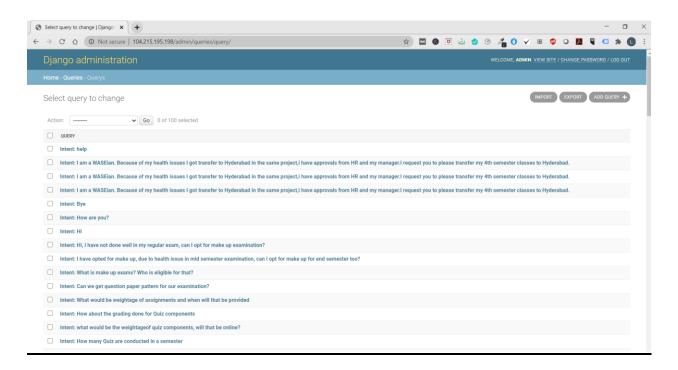
On the Django admin page there are two ways to update the intents database:

- 1) Click on the 'Add' button to add Intent and response individually.
- 2) Click on the 'Change' button. On the page that opens there are two options:
 - Import: Browse the file from your computer to upload to the database.
 The system would accept xls, xlsx, csv, tsv, json and yml formats. This way one can upload in bulk.
 - Export: This way you can export the file in xls, xlsx, csv, tsv, json, yml and html formats.

Below are the screenshots showing the panel to import intents manually or via import file feature.



To add an intent and response



Addition of a query using import/add query button

Modifying responses

There are two ways to modify the responses.

- 1) **Individually:** Click on the respective intents and change the response.
- 2) <u>Bulk</u>: Use the imports button as shown above to the add to the database. If the file added contains the intents which were already present then the response will be updated..jsp



Modification of Intent and Response