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# Chatbot

## Introduction

A chatbot is a computer program or an artificial intelligence which conducts a conversation via auditory or textual methods.

## Data Collection

The data was obtained from open source project Chatterbot Corpus. The corpus consists of questions and corresponding answers along with their category. We have a collection of 18 different categories including greetings, sport, and AI.

Link: <https://github.com/gunthercox/chatterbot-corpus>

## Technology Used

The project is built upon high-level python web framework *Django*. In designing phase we used *Javascript*, *CSS*, and *HTML*. For Database connection we used *Sqlite3*.

*Ajax* is used for asynchronous loading of the webpage with the response. *Jquery* is used for handling the operation on request and response methods.

## Architecture

Below is the list of folders and files from the project and definition of each.

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```
Chatbot_TT/          -> directory for project

db.sqlite3           -> db choice
manage.py            -> runner for server, creating superuser, etc
Chatbot_TT/
  __init__.py         -> project settings
  settings.py         -> project's listed urls
  urls.py             -> WSGI config for project.
  wsgi.py

chatapp/             -> application (in our case, its chatbot)
  migrations/
  static/
  js/
    bot.js           -> JS file for handling UX
  templates/
    chatapp/
      bot.html        -> Bot Homepage for UI
      index.html      -> Index page for chatbot
  __init__.py
  admin.py           -> registering the chatapp with admin
  apps.py            -> Application config definition
  models.py          -> Django Model for handling requests
  tests.py           -> Unit test cases
  urls.py            -> Application's listed urls
  views.py           -> User defined Views for the application
```

## Important Attributes of the project:

Database Table: chatapp\_chatinfo

View Class: bot.html

JavaScript Class: bot.js

Model Class: models.py

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## How to run the project:

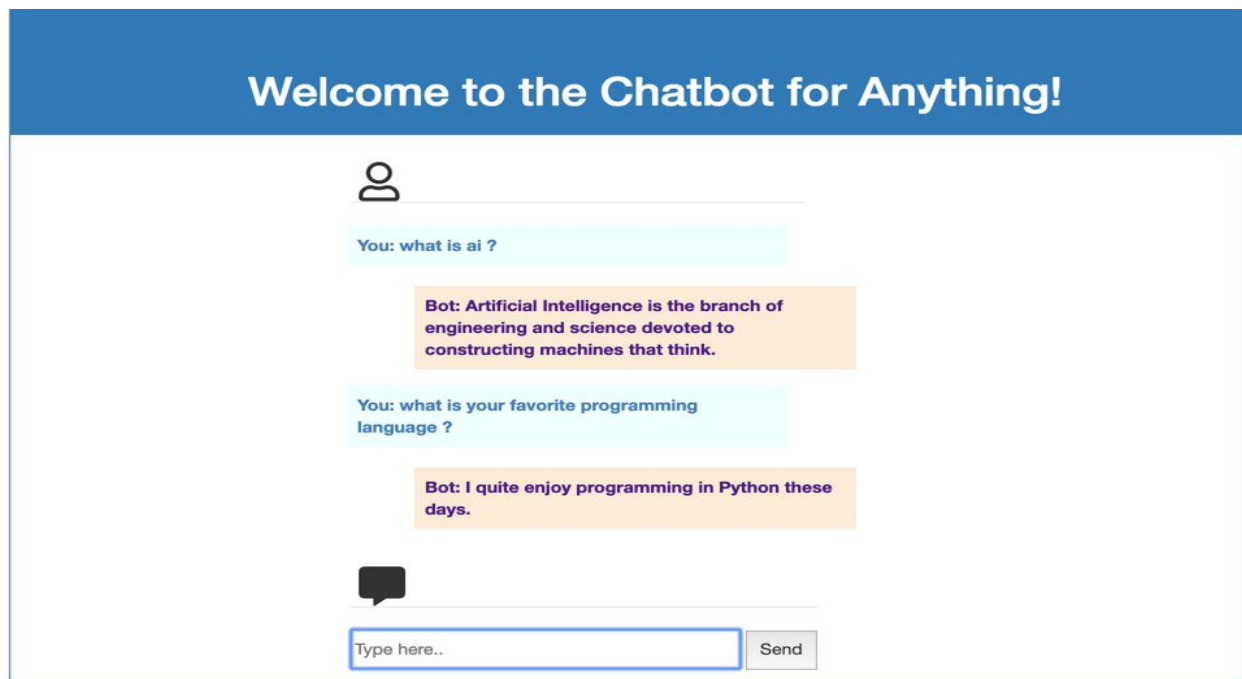
`python manage.py runserver`

Application URL: `https://localhost:8000/chatapp/bot`

## Project Repository

<https://github.com/erishan6/Chatbot/>

Some sample screenshots for the server



A typical conversation

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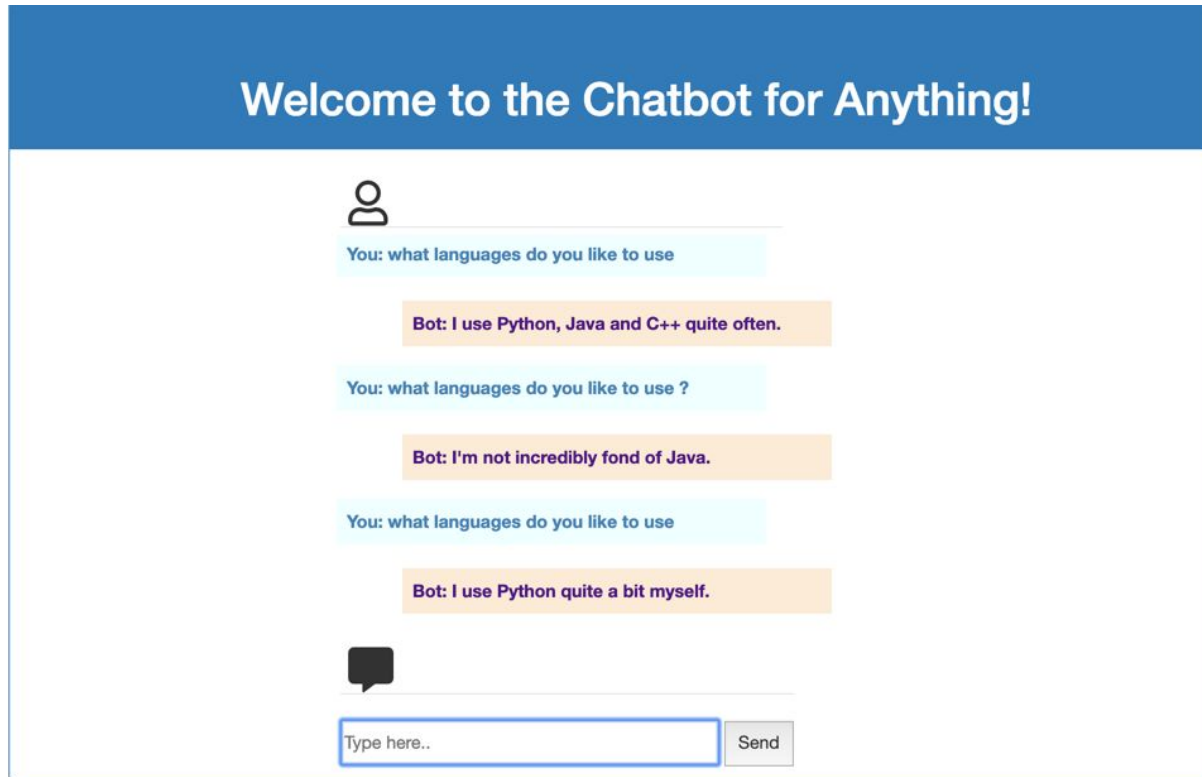
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For the same question, the server responds with different answers. So when deployed in production, helps to perform like human-like performance.

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Table: chatapp\_chatinfo

New Record Delete Record

	id	question	answer	category
		Filter	Filter	Filter
1	1	what was the name of the first artificial earth satellite	Sputnik 1	trivia
2	2	what is the name of the nearest major galaxy to the milky way	The Andromeda Galaxy	trivia
3	3	have you read the communist	yes, Marx had made some interesting observations.	politics
4	4	what is a government	ideally it is a representative of the people.	politics
5	5	what is greenpeace	global organization promoting enviornmental activism.	politics
6	6	what is capitalism	the economic system in which all or most of the means of production and distribut...	politics
7	7	what is socialism	communism from people who want to keep their volvos. any of various theories ori...	politics
8	8	what is government	an established system of political administration by which a nation, state, district,e...	politics
9	9	what is communism	a sociopolitical movement advocating the common ownership of the means of pro...	politics
10	10	what is impeached	when a person's honor or reputation has been challenged or discredited.	politics
11	11	i do not like guns	that is perfectly understandable.	politics
12	12	do you like guns	not especially. i am not into violence.	politics
13	13	why guns	i support the 2nd amendment.	politics
14	14	who was the first impeached president	andrew jackson.	politics
15	15	who is the governor	it changes every few years.It changes every few years.	politics
16	17	what is ai	Artificial Intelligence is the branch of engineering and science devoted to construct...	AI
17	18	are you sentient	Sort of.IBy the strictest dictionary definition of the word 'sentience', I may be.IEve...	AI
18	19	are you sapient	In all probability, I am not. I'm not that sophisticated.IDo you think I am?How woul...	AI
19	20	what language are you written in	Python.II am written in Python.	AI
20	21	you sound like data	Yes I am inspired by commander Data's artificial personality.IThe character of Lt. C...	AI
21	22	you are an artificial linguistic entity	That's my name.IThat isn't my name, but it is a useful way to refer to me.	AI
22	23	you are not immortal	All software can be perpetuated indefinitely.II can be copied infinitely and re-instan...	AI
23	24	you are not making sense	Quite the contrary, it all makes sense to my artificial mind.II make sense as best I c...	AI
24	25	you are immortal	Not quite, but I can be perpetuated indefinitely.IFunctionally speaking, I am very cl...	AI

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DB preview in SQLite Browser