

Telegram Bot for searching movies

Olzhas Uikas
Astana IT University
Aktobe, Kazakhstan
201121@astanait.edu.kz

Aibat Zhardemov
Astana IT University
Uralsk, Kazakhstan
201110@astanait.edu.kz

Miram Adilkhan
Astana IT University
Uralsk, Kazakhstan
201324@atanait.edu.kz

Abstract—This document is a description of a Telegram Bot for searching movies and summary of the completed work.

I.

INTRODUCTION

The bot is made on the Telegram platform using the Python and SQLite studio programming languages. SQLite Studio was used to create the database. The main function of the bot is to search for films within the Telegram platform itself. During the programming was used 2 libraries. These are telebot and (6) sqlite3. The database was created manually.

II.

FUNCTIONALITY

The bot called "IzdeQaraBot" (1) is very easy to use. At the beginning, you should type the /start command and you will see additional two buttons, on these buttons, you can easily find a movie by genre and by selections. After clicking on genres button, you will be shown all genres that are in the database. If you want to watch selections(trilogies) of films you just need to click on button "search by selections" and you will get all the selections that are in the database, if you want to find a specific movie, you can type /search command and write the name of the movie, after what you will be shown a data such as name of the movie, description, rating in the list, country, trailer, and the movie itself, you can safely enjoy the movie as well. Also there are cooperation commands /get info and /help.

III.

WORK PROCESS

At the beginning was received simple bot on Telegram from @BotFather (2) with no functions. Using token, our bot was connected to Python. First of all, was created database with films and information about them using program SQLite. Then using library "sqlite3" database was connected to Telegram Bot via Python. During connection (5) was appeared problem with differences of threads. To solve this problem was used function "check same thread = False". Next step was to write the function that lets to be aware whether the error appears. As a result of this work the bot could search for films by genre, trilogy, name and output them. But to do that user had to write the queries in the chat, also films were outputted in the text format.

It seemed not convenient, so was written the program to add buttons to the chat. As a result when user chose /start command, bot suggested two options (4) for search "by genre" and "by groups(trilogies)". After clicking one of that buttons bot suggested another option where was types of genres or trilogies, and this was continued until buttons with films were appeared. And when user clicked to one of that buttons with films bot outputted information about the film and movie itself in mp4 format. In the end, was added one more (3) button "back" which appears at every step so users can return to the beginning every time.

IV.

CONCLUSION

Sometimes it's hard to find full movies in high quality in the browsers, this bot is a good solution to that problem. Current version of the bot looks good and works well. But of course, it needs to be improved by adding new films to the database and may be by adding new functions. The process of creating bot has taught to work on teams. As we know, working in teams is the most necessary skill for programmers because breaking a large work into pieces makes it much easier also you will learn to read someone else's code. In the end, want to say that when creating a bot, you can learn a lot!!!

REFERENCES

- [1] @IzdeQaraBot
- [2] "Telegram Bot API", November 4, 2020, from <https://core.telegram.org/bots/api>
- [3] @kasad0r, "InlineKeyboard in Telegram Bots", August 1, 2018, from <https://habr.com/ru/post/418905/>
- [4] Leandro Toledo Revision, "telegram.InlineKeyboardMarkup", from <https://python-telegram-bot.readthedocs.io/en/stable/telegram.inlinekeyboardmarkup.html>
- [5] "Sqlite module - working with a database", from <https://pythonscripts.com/sqlite>
- [6] "sqlite3 — DB-API 2.0 interface for SQLite databases"