DISCORD BOT

A SYP Project

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Content

1. Initial Situation

2. General Conditions and Constraints

3. Project objectives and system concepts

4. Opportunities and risks

5. Planning

1. Initial Situation

Right now, there are many bots with only a few Functions. Our Idea is to make a big bot with many Functions to make it easier for the users. It is always a bit annoying that there are many bots with different exclamations and many functions are on the server more than once due to the big number of bots there are. With our bot we try to take most (the most important) functions from the well-known bots and put them together on our bot.

For example, on our server (WilheringerInferno), we have three bots that can play music. We have them because every bot of them has a unique function we wanted to have. That is not what we want, so we got the idea of our big bot.

We are very determined because we wanted to make a discord bot for a long time but we never had the time to do it. We think also that our programming skills are more than enough for that (C#).

Example:

Bot1:

!!play <youtube link>

!!pet

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Bot2:

+play <youtube link>

+userprofile

Bot one and two have different exclamations and different and same functions. In this example we combine all the function and unify the exclamation in our bot.

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Our Bot:

!play <youtube link>

!pet

!userprofile

2.   General Conditions and Constraints

Framework Conditions

For a discord bot we do not need any money, so our budget situation is very good.

As said above, we have a very good knowledge of C# (in this language we want to write our bot) and we are not that bad in java and C as well. We do not know a lot about discord bots (programming) so we hope that we can improve our skills in this area.

Our Deadline is the end of the school year, so we think it is not a problem to finish until then.

Technical Conditions

We want to program in Visual Studio (C#), which is sponsored by our great school (HTBLA Leonding). We work on our Laptops (Windows 10) and share our data on GitHub and Discord.

3. Project Objectives and System Concepts

<u>Vision of our new System:</u>

We want to make a Discord bot which implements most of the features that are already implemented in other big bots and some completely new. So now we want to unify all exclamations from every bot by implementing the features in our bot so that we can use all functions with one exclamation.

4. Opportunities and Risks

Our Bot has the following Opportunities:

- We are able to prevent that the user have to use too many exclamations
- We are able to combine many features in one single bot. → !play or !pet

Risks:

- It can happen that the bot gets too many things to do at the same time, so it crashes or starts to lag
- We set us too many goals

5. Planning

Project milestones:
- Project proposal 19.10.18
- Get the bot running (login/out) 9.11.18
- Major functions (music, memes, user profiles) 20.1.19
- Test the functions /correct the functions 1.2.19
- More functions (pet, steam, coins, roles, RPG, minigames, white/blacklist) 31.5.19
- Test the functions/correct the functions 20.6.19

Project lead:

Phillip Trinkl (control the progress, set/change the goals/programming functions)

Programming lead:

Florian Punz (connect all the functions to the bot/programming functions)

Programmer:

Fabian Tischler (programming functions)

Chiara Strutzenberger (programming functions)

Resources:

Licenses and Servers are not needed (the bot is locally hosted, discord bots are free to make, the only license we need is provided from our school (Visual Studio))

Project Start: 27.9.18

Project End: 5.7.19

First Prototype date: 1.2.19

Implementation work start date: -