

420 Directory – The bot

Date: 04-07-2014

Document State: Draft



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Document status sheet

Title : 420 Directory – The bot
Datum : 04-07-2014
For : 420 Directory Administrators
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Version	Date	By	Major Changes
0.1	02-04-2014	Berend de Groot	Document setup & written approach.
0.2	04-04-2014	Berend de Groot	Added bot core, AC & Music Player.

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1 Introduction

This document is written in order to describe the functionality of the new bot for the 420 Directory community. 420 Directory is the name of the community and will be referred to as "420". The bot name is yet to be determined.

All the text below is written by me, these are my solutions to the problems you described. If it does not suit your needs, or you think things could be improved, **let me know**.

2 List provided by the administrators

The 420 administrators were kindly enough to hand me a list of ideas and functionality they would like to be implemented in the bot. I will be working out those ideas as good as possible.

- Music player (Via Command and mod operation)
- Kick people also silent kick users(via command)
- Clear chat (via command)
- Mute someone (Via Command)
- Guest Bots
- Room Moderator List Transfer (room to room only for bot operator)
- Room Scrapper
- Banstrings e.g !addban wordhere will addban word to the list and ban any none mod user who says the word
- Banstrings e.g !remban same word takes away the word you wish to remove from addban
- Youtube and Soundcloud information Commands how many songs played by user,see last song played user example !ytwhore xxxusernamexxx
- See who is not signed in tc
- Adbot, ability to scrape the front page directory of tinychat
- Take a room down :D
- Block people from tc
- See how many time a guest come in the room
- Tinychat API, Few things could be changed, Room camera count from 12 to more etc
- Close sincerum, then adabsurdum me like me revenge cold. I will fucking drink to that after
- Mods have ability to change ip easily
- Super important: mods cant steal the bot
- Ip addresses of users.
- Changeable user greeting

1 3 The approach

2 To start off, I'll be working on a music player since this seems to be to most easiest to me. I
3 am unfamiliar with building bots on Tiny Chat, I do however have enough experience building
4 IRC bots and building other software. So I should be capable of building the functionally given
5 above. I will never implement any functionally which is against the Tiny Chat terms of service
6 in an official release. The source code belongs to 420 Directory and will never be used
7 elsewhere. To make sure our source stays safe, only me (Berend), Brent and Victor will have
8 access to the actual source and server the bot is running on. Technical details will follow as
9 soon the development process takes place.

10
11 If I found my way around with the music player, I'll release the music player under a
12 "unofficial" version (0.xx) and continue working on the other parts of the bot. Every time I've
13 build a "module" as I call them, I'll implement them and release a new version. The specific
14 order of developing will become clear as we get there, I won't be able to tell exactly which
15 parts will be build first. If certain points have a higher priority, let me know.

16
17 As the development process will go on, I require close interaction with all the people who
18 want to be or should be involved during the development process. Also I keep track of all the
19 changes I make in this document order to fall back on previous versions and provide
20 documentation for future developers. This is the way I work, and hopefully you'll see the use
21 of it.

22
23 **Any suggestions, comments or feedback are welcome. I can't work out ideas if I don't**
24 **hear them.**

1 4 Bot Core

2 Before we can start implementing functionality such as a music player, we will need to be able
3 to actually know how to connect to Tiny Chat, how to execute commands there, and how to
4 save our data. I believe the best way is by connecting as a client (a regular user) en execute
5 commands as a normal user would, at moderator level. I've done some research in the best
6 way to connect to TinyChat and I came across a programming language called Python, its
7 created by a Dutch developer and especially used by google. I have done some of Python
8 before, and since the syntax is quite easy to learn I think Brent might be able to help me out
9 with some programming if he likes.

10
11 A short list of things for me to figure out before starting on the music player.

- 12 • Connection to Tiny Chat
- 13 • Receive users, messages, joins, bans, etc.
- 14 • Able to execute simple commands such as sending a message
- 15 • Detect player activity.

16
17 The bot will use a "trigger" it's like a symbol to know you are talking to the bot, we use this
18 term on IRC, and I continue to use it here as well.

19
20 **We need to get clear about both the name and the trigger.**

21 4.1 Bot Administrators

22 We need to make sure who will gain what amount of access to our bot. I have heard some
23 stories which are all causes by people trusting each other to much, and stab each other's
24 back in the end. That's why I introduce 4 access levels(AL), who will be in which group will not
25 be determined by me. Each AL can use all functionality from lower AL's.

- 26 • 420 - Administrators
27 *Complete access to the bot and all its functionality.*
- 28 • 2 - Moderatos
29 *Access to most of the functionality except managing users and other bot*
30 *administration.*
- 31 • 1 - Regulars
32 *Able to confirm songs in the playlist, and maybe other features in the future.*
- 33 • 0 - Users
34 *Able to add songs.*

35
36 I don't want to add to many different levels otherwise things get to complicated, in the future
37 I'll add a list of commands available for each access level to use and how to manage these.

1 5 Music Player

2 As been said earlier the music player will be the first I work on, the idea is to improve the
3 music player in such a way, users won't have to click on the YouTube icon, search their video
4 and then finally play it. If nobody else closes it halfway through the video..

5
6 It could be improved. There will be a playlist in the chat, hosted by the bot. People can add as
7 many songs as they want at any time they want and moderators can delete them anytime
8 they want. If people start abusing our service, we simplify things a bit and just make the bot
9 ignore all of that user his commands.

10
11 First of all we got the playlist, which will be able to view on a webpage since Tiny Chat won't
12 allow us to send more than a few messages in a few seconds. It slows the bot down, a lot.
13 Added songs will need to be confirmed by a moderator from the chat, after its confirmed it will
14 be queued. Each song gets a different ID, with that information the song can get deleted
15 easily. Each song will be played, and songs that are already known, can be played again by
16 using the ID and not the link.

17
18 Besides adding removing and confirming, you of course are able to start and stop the music
19 player. But also able to play a song without putting it on the playlist. You can also change the
20 time of the video, since that seems convenient and I've seen people using it.

21
22

AL	Command	Parameters	Action
0	addsong	<youtubelink> / <song_id>	Adds a song to the queue.
2	delsong	<youtubelink> / <song_id>	Removes a song from the queue, not the database.
1	confirmsong	None / <youtubelink> / <song_id>	Confirm a just added song, no parameters will confirm the last added song.
2	fplay	<youtubelink> / <song_id>	Force play a song.
2	stop	None	Stops the music player
2	play	none	Starts the music player. (Random song)
2	settime	<time>	Change the time of the video

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