My Project

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README

Steps to running bot

- 1. python -m install -U discord.py
- 2. https://www.ffmpeg.org/ -Link to path in windows envrionemnt, this is for playing youtube audio
- 3. python -m pip install -U youtube_dl
- 4. python -m pip install -U imgurpython
- 5. Visit discord's developer's portal at https://discordapp.com/developers/applications/
- 6. login and create an appliaction at
- 7. Click bot tab on the left
- 8. Click add bot
- 9. Click OAuth2 tab on the left
- 10. Click bot checkbox in scopes
- 11. Copy link and paste to invite bot to server
- 12. Replace token in Bot.py. This is found in the bot tab under username.
- 1. run bot.py

2 README

Class Index

2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

Comm.Comm	
Class for implementing communication methods	7
Image.Image	
Class for implementing image search methods	ç
Level.Level	
Class for implementing leveling system methods	(
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Class for implementing a music player	3

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File Index

3.1 File List

Here is a list of all documented files with brief descriptions:

ot.py
Initalizes bot client and module loading
Comm.py
Implements methods for communication in Discord chat bot
mage.py
Implements methods for Imgur image search in Discord chat bot
evel.py
Implements methods for leveling system in Discord chat bot. Only provides functionality 18
fisc.py
Miscellaneous functions for bot. Does not have real application to chatbot
fusic.py
Implements methods for a music play in Discord chat bot

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Class Documentation

4.1 Comm.Comm Class Reference

Class for implementing communication methods.

Public Member Functions

- def __init__ (self, client)
- def on_message_delete (self, message)

Bot notifies community server when message is deleted.

• def on_message_edit (self, before, after)

Bot notifies community server when message is edited.

- def on_reaction_add (self, reaction, user)
- def clear (self, ctx, amount=5)

Public Attributes

- · client
- ONDELETE
- ONEDIT

Displays a particular news article fomr news.com.au about blackholes.

Static Public Attributes

- int **ONDELETE** = 0
- int **ONEDIT** = 0
- · pass_context

Clears messages in channel.

4.1.1 Detailed Description

Class for implementing communication methods.

8 Class Documentation

4.1.2 Member Function Documentation

4.1.2.1 on_message_delete()

Bot notifies community server when message is deleted.

Prints 'Message deleted by <user>' into server

Parameters

4.1.2.2 on_message_edit()

Bot notifies community server when message is edited.

Prints 'Message edited by <user>' into server

Parameters

message	Message that was typed into Discord server
---------	--

4.1.3 Member Data Documentation

4.1.3.1 pass_context

```
Comm.Comm.pass_context [static]
```

Clears messages in channel.

Clears <amount> messages in channel. Default is 5 messages after command unless specified. Called by !clears [int]

Parameters

ctx	Discord chat context
amount	Number of message to delete. Default is 5.

The documentation for this class was generated from the following file:

· Comm.py

4.2 Image.Image Class Reference

Class for implementing image search methods.

Public Member Functions

- def __init__ (self, client)
 Initializes image module.
- def imgurService (self, ctx)

Public Attributes

- · client
- imgur

Static Public Attributes

• name

Helper function for image search.

- no_pm
- True
- pass_context

4.2.1 Detailed Description

Class for implementing image search methods.

4.2.2 Member Data Documentation

4.2.2.1 name

Image.Image.name [static]

Helper function for image search.

10 Class Documentation

Parameters

```
ctx Discord context
```

The documentation for this class was generated from the following file:

· Image.py

4.3 Level.Level Class Reference

Class for implementing leveling system methods.

Public Member Functions

```
    def __init__ (self, client)
    Initializes level module.
```

• def update_data (self, users, member)

Creates a member expereince profile.

• def add_experience (self, users, member, exp)

Adds experience to a member expereince profile.

def level_up (self, users, member, channel)

Congradulates member for reaching next level in experience profile.

Public Attributes

client

4.3.1 Detailed Description

Class for implementing leveling system methods.

4.3.2 Member Function Documentation

4.3.2.1 add_experience()

Adds experience to a member expereince profile.

Parameters

users	JSON Dictionary of members
member	Member that is being updated
exp	Number of experience awarded to member

4.3.2.2 level_up()

Congradulates member for reaching next level in experience profile.

Parameters

users	JSON Dictionary of members
member	Member that is being updated
channel	Where bot outputs message

4.3.2.3 update_data()

Creates a member expereince profile.

Parameters

users	JSON Dictionary of members
member	Member that is being updated

The documentation for this class was generated from the following file:

Level.py

4.4 Misc.Misc Class Reference

Class for miscellaneous methods.

12 Class Documentation

Public Member Functions

```
• def __init__ (self, client)

Initializes miscellaneous module.
```

• def owner (self)

Bot prints the owner of the bot created.

• def echo (self, args)

Echo message in channel.

Public Attributes

client

4.4.1 Detailed Description

Class for miscellaneous methods.

4.4.2 Member Function Documentation

4.4.2.1 echo()

```
\begin{array}{c} \text{def Misc.Misc.echo} \ (\\ self,\\ args \ ) \end{array}
```

Echo message in channel.

Parameters

args	String message to be echoed
3 -	

4.4.2.2 owner()

```
def Misc.Misc.owner (
     self )
```

Bot prints the owner of the bot created.

Prints 'SE3XA3'

The documentation for this class was generated from the following file:

Misc.py

4.5 Music.Music Class Reference

Class for implementing a music player.

Public Member Functions

- def __init__ (self, client)
 Initializes music module.
- def join (self, ctx)

Public Attributes

· client

Static Public Attributes

- dictionary players = {}
- dictionary queues = {}
- pass context

Bot joins channel user is in.

4.5.1 Detailed Description

Class for implementing a music player.

4.5.2 Member Data Documentation

4.5.2.1 pass_context

```
Music.Music.pass_context [static]
```

Bot joins channel user is in.

Called by !join

Parameters

ctx Discord chat context

The documentation for this class was generated from the following file:

• Music.py

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File Documentation

5.1 Bot.py File Reference

Initalizes bot client and module loading.

Functions

• def Bot.on_ready ()

Detects when bot is ready and outputs into terminal.

def Bot.on_message (message)

Displays messages sent in Discord server into terminal.

def Bot.on_member_join (member)

Assigns role and level to new member joining server.

· def Bot.unload (extension)

Manually loads module(Cog)

• def Bot.load (extension)

Manually loads module(Cog)

def Bot.helps (ctx)

Variables

- string Bot.TOKEN = 'NTE2Mzc4ODU4Mzg0MTMwMDQ4.Dtyy6w.Gs8YYm6ygzMPJfEyoPfvie7MvFk'
- **Bot.mod** = os.path.dirname(os.path.abspath(__file__))
- **Bot.client** = commands.Bot(command_prefix = '!')
- Bot.level = Level.Level(client)
- list **Bot.extensions** = ['Music', 'Comm', 'Misc', 'Image']
- · Bot.pass context

Bot privately messages user a list of commands the bot supports.

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5.1.1 Detailed Description

Initalizes bot client and module loading.

Author

Jason Tsui

Date

9/11/2018

5.1.2 Function Documentation

```
5.1.2.1 load()
```

Manually loads module(Cog)

Parameters

```
extension name of module to be imported
```

5.1.2.2 on_member_join()

Assigns role and level to new member joining server.

Parameters

```
member | Member that is joining the server
```

5.1.2.3 on_message()

Displays messages sent in Discord server into terminal.

Parameters

message	Message typed into Discord server
---------	-----------------------------------

5.1.2.4 unload()

Manually loads module(Cog)

Parameters

extension	name of module to be removed
extension	name of module to be removed

5.1.3 Variable Documentation

5.1.3.1 pass_context

```
Bot.pass_context
```

Bot privately messages user a list of commands the bot supports.

!help

5.2 Comm.py File Reference

Implements methods for communication in Discord chat bot.

Classes

• class Comm.Comm

Class for implementing communication methods.

Functions

• def Comm.setup (client)

18 File Documentation

5.2.1 Detailed Description

Implements methods for communication in Discord chat bot.

Author

Jason Tsui

Date

11/14/2018

5.3 Image.py File Reference

Implements methods for Imgur image search in Discord chat bot.

Classes

· class Image.Image

Class for implementing image search methods.

Functions

· def Image.setup (client)

5.3.1 Detailed Description

Implements methods for Imgur image search in Discord chat bot.

Author

Abdul Elrahwan

Date

11/14/2018

5.4 Level.py File Reference

Implements methods for leveling system in Discord chat bot. Only provides functionality.

Classes

· class Level.Level

Class for implementing leveling system methods.

Functions

• def Level.setup (client)

5.4.1 Detailed Description

Implements methods for leveling system in Discord chat bot. Only provides functionality.

Author

Jason Tsui

Date

11/10/2018

5.5 Misc.py File Reference

Miscellaneous functions for bot. Does not have real application to chatbot.

Classes

• class Misc.Misc

Class for miscellaneous methods.

Functions

· def Misc.setup (client)

5.5.1 Detailed Description

Miscellaneous functions for bot. Does not have real application to chatbot.

Author

Jason Tsui

Date

11/01/2018

5.6 Music.py File Reference

Implements methods for a music play in Discord chat bot.

20 File Documentation

Classes

• class Music.Music

Class for implementing a music player.

Functions

• def Music.setup (client)

5.6.1 Detailed Description

Implements methods for a music play in Discord chat bot.

Author

Jason Tsui

Date

11/09/2018

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