

DataBase Update

Database update has two steps - adding into database manually and updating database

.Py scripts

updater.py - for adding into Database

auto_updater.py - for updating Database

Adding into Database

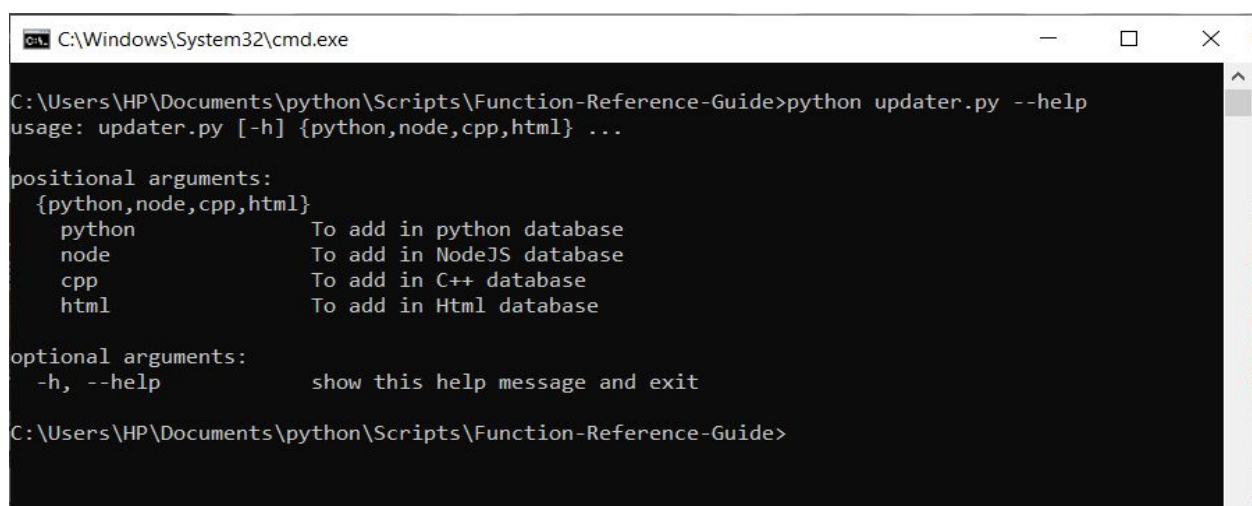
This task is handled by updater.py script, which is a command line interface(CLI). Arguments in the CLI can be viewed using --help argument.

Details:

User has to specify different details about the function he/she desires to add in the DB

There are 4 subparsers namely python, cpp, node, html

Each subparser has arguments for the user to add a function in the respective database.



```
C:\Windows\System32\cmd.exe

C:\Users\HP\Documents\python\Scripts\Function-Reference-Guide>python updater.py --help
usage: updater.py [-h] {python,node,cpp,html} ...

positional arguments:
  {python,node,cpp,html}
    python              To add in python database
    node                To add in NodeJS database
    cpp                 To add in C++ database
    html                To add in Html database

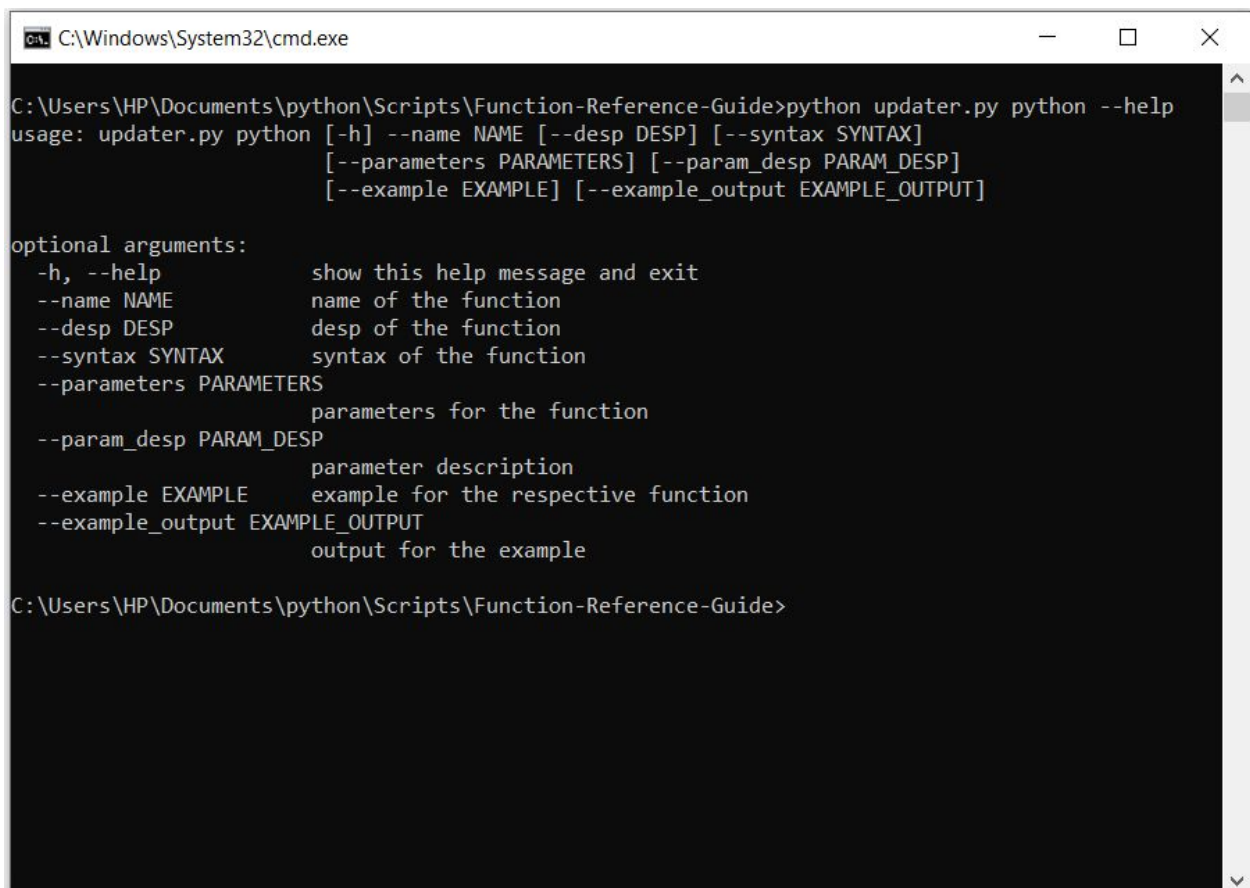
optional arguments:
  -h, --help            show this help message and exit

C:\Users\HP\Documents\python\Scripts\Function-Reference-Guide>
```

For adding function in **Python Database**:

The arguments are

- name
- desp
- syntax
- parameters
- param_desp
- example
- example_output



```
C:\Windows\System32\cmd.exe

C:\Users\HP\Documents\python\Scripts\Function-Reference-Guide>python updater.py python --help
usage: updater.py python [-h] --name NAME [--desp DESP] [--syntax SYNTAX]
                        [--parameters PARAMETERS] [--param_desp PARAM_DESP]
                        [--example EXAMPLE] [--example_output EXAMPLE_OUTPUT]

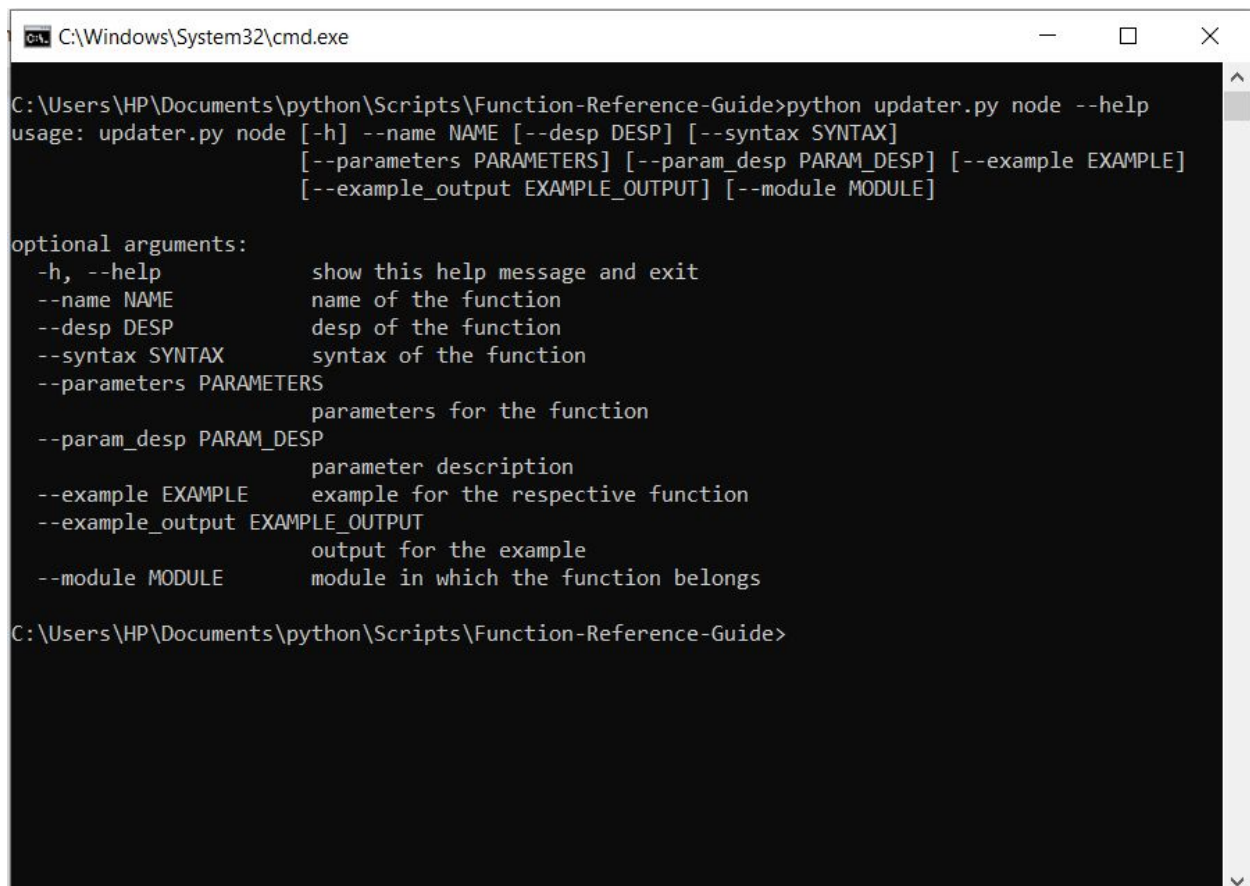
optional arguments:
  -h, --help            show this help message and exit
  --name NAME            name of the function
  --desp DESP            desp of the function
  --syntax SYNTAX        syntax of the function
  --parameters PARAMETERS
                        parameters for the function
  --param_desp PARAM_DESP
                        parameter description
  --example EXAMPLE      example for the respective function
  --example_output EXAMPLE_OUTPUT
                        output for the example

C:\Users\HP\Documents\python\Scripts\Function-Reference-Guide>
```

For adding function in **NodeJS Database**:

The arguments are

- name
- desp
- syntax
- parameters
- param_desp
- example
- example_output
- module



```
C:\Windows\System32\cmd.exe

C:\Users\HP\Documents\python\Scripts\Function-Reference-Guide>python updater.py node --help
usage: updater.py node [-h] --name NAME [--desp DESP] [--syntax SYNTAX]
                        [--parameters PARAMETERS] [--param_desp PARAM_DESP] [--example EXAMPLE]
                        [--example_output EXAMPLE_OUTPUT] [--module MODULE]

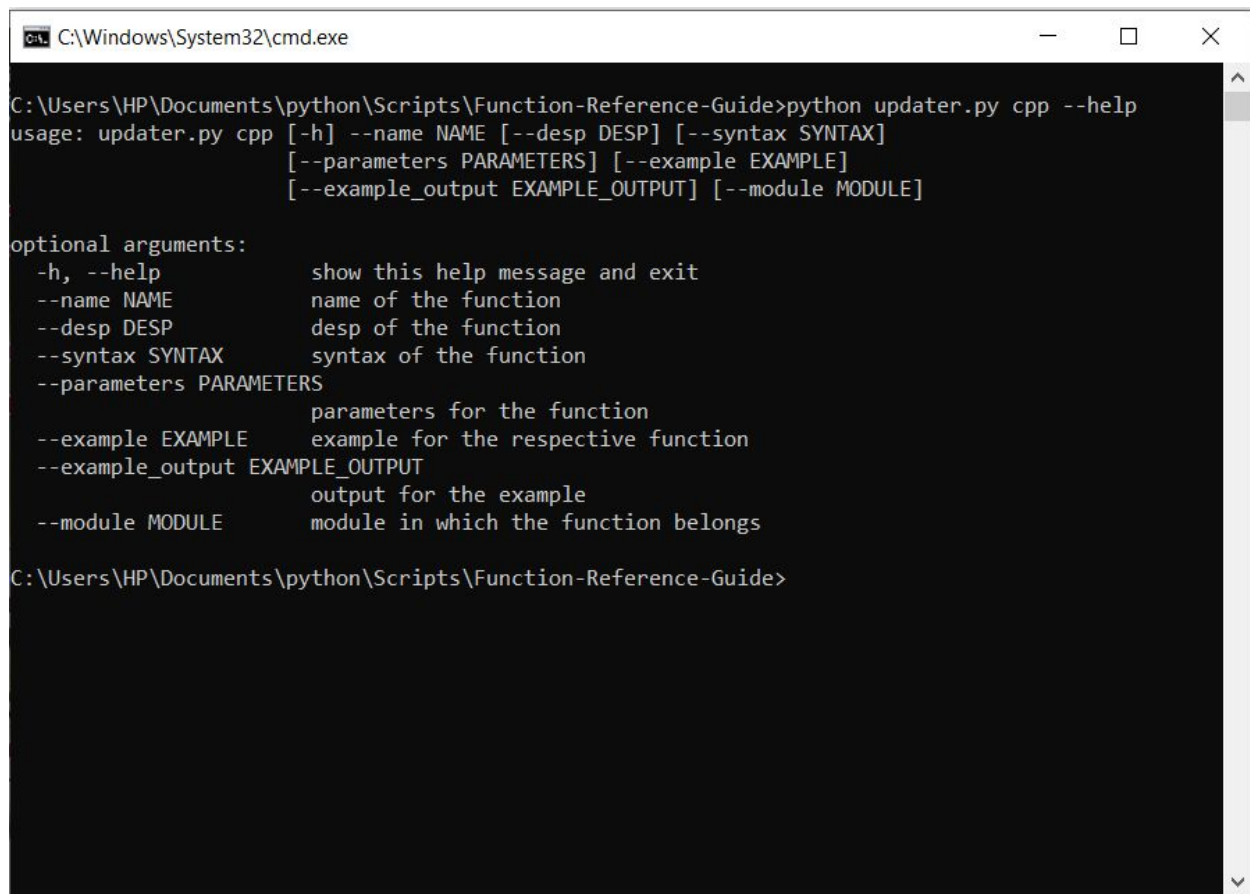
optional arguments:
  -h, --help            show this help message and exit
  --name NAME            name of the function
  --desp DESP            desp of the function
  --syntax SYNTAX        syntax of the function
  --parameters PARAMETERS
                        parameters for the function
  --param_desp PARAM_DESP
                        parameter description
  --example EXAMPLE      example for the respective function
  --example_output EXAMPLE_OUTPUT
                        output for the example
  --module MODULE        module in which the function belongs

C:\Users\HP\Documents\python\Scripts\Function-Reference-Guide>
```

For adding function in **C++ Database**:

The arguments are

- name
- desp
- syntax
- parameters
- example
- example_output
- module



```
C:\Windows\System32\cmd.exe

C:\Users\HP\Documents\python\Scripts\Function-Reference-Guide>python updater.py cpp --help
usage: updater.py cpp [-h] --name NAME [--desp DESP] [--syntax SYNTAX]
                    [--parameters PARAMETERS] [--example EXAMPLE]
                    [--example_output EXAMPLE_OUTPUT] [--module MODULE]

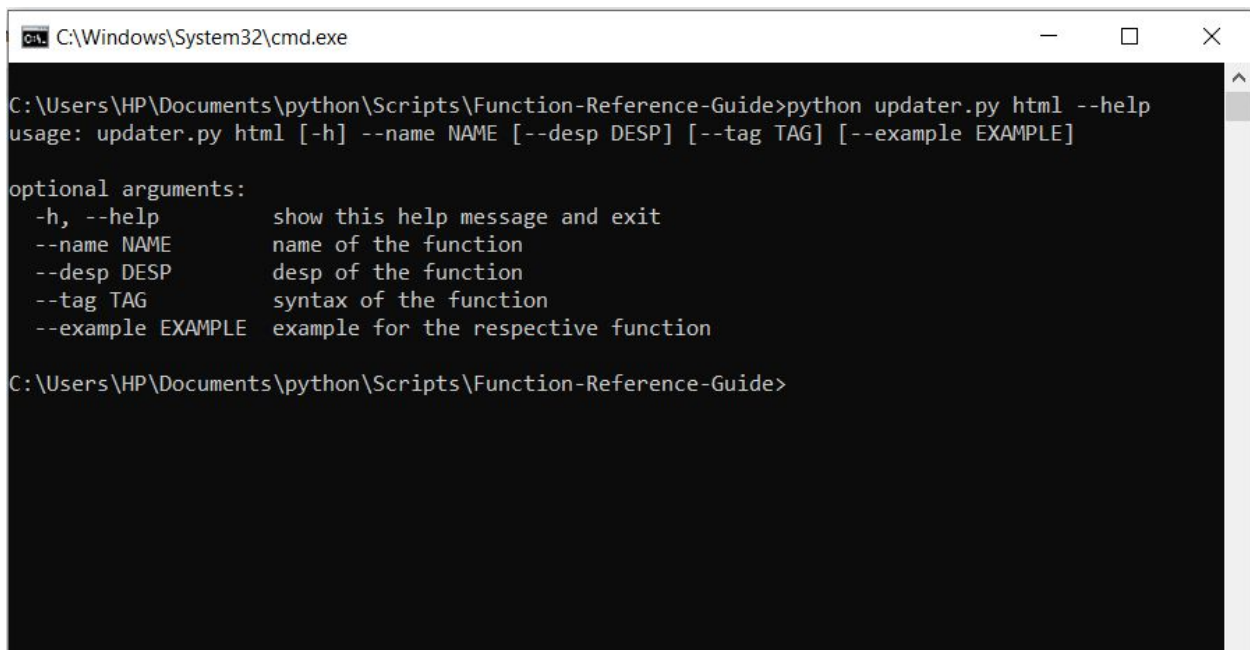
optional arguments:
  -h, --help            show this help message and exit
  --name NAME           name of the function
  --desp DESP           desp of the function
  --syntax SYNTAX       syntax of the function
  --parameters PARAMETERS
                        parameters for the function
  --example EXAMPLE     example for the respective function
  --example_output EXAMPLE_OUTPUT
                        output for the example
  --module MODULE       module in which the function belongs

C:\Users\HP\Documents\python\Scripts\Function-Reference-Guide>
```

For adding function in **Html Database**:

The arguments are:

- name
- desp
- tag
- example



```
C:\Windows\System32\cmd.exe

C:\Users\HP\Documents\python\Scripts\Function-Reference-Guide>python updater.py html --help
usage: updater.py html [-h] --name NAME [--desp DESP] [--tag TAG] [--example EXAMPLE]

optional arguments:
  -h, --help            show this help message and exit
  --name NAME            name of the function
  --desp DESP            desp of the function
  --tag TAG              syntax of the function
  --example EXAMPLE      example for the respective function

C:\Users\HP\Documents\python\Scripts\Function-Reference-Guide>
```

--name argument is must to fill for the user and rest of the arguments are optional but recommended to be filled.

Example: To add a new function in c++ db

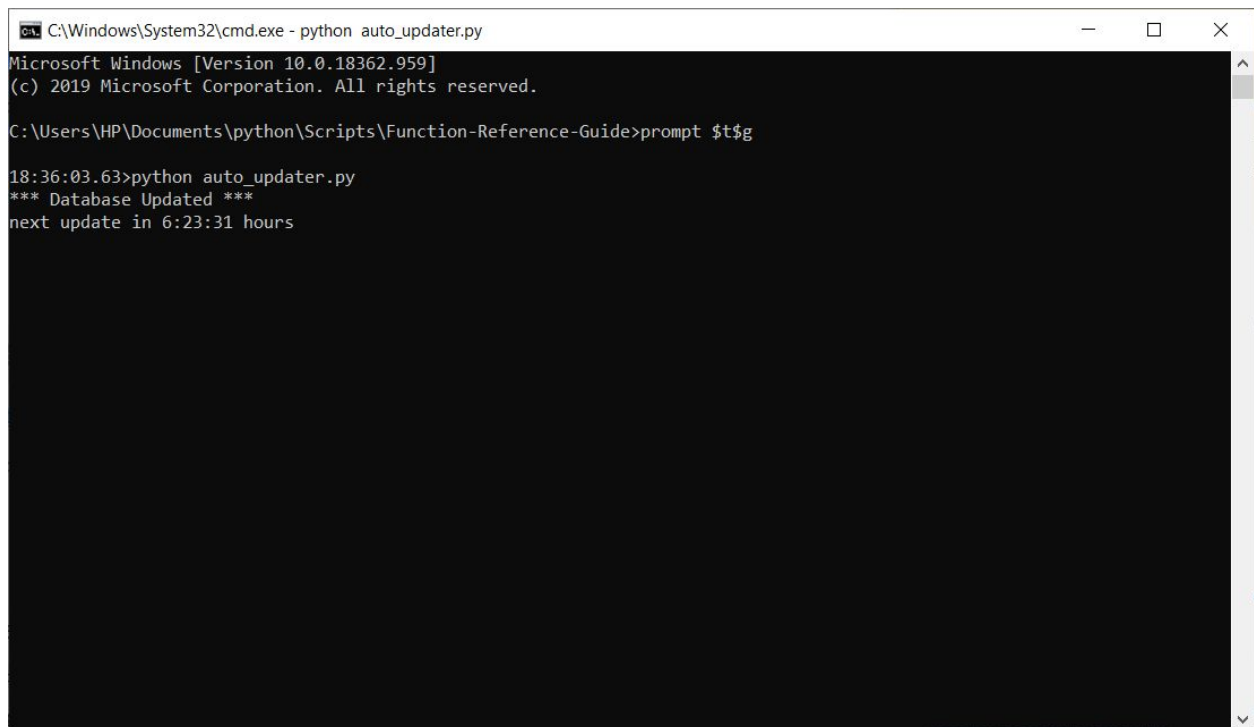
Command in CMD: python updater.py cpp --name "name of fun" --desp "some desp" --syntax "syntax of the fun" --parameters "parameters that the fun takes" --example "some example" --example_output "output for the example" --module "module in which the function belongs"

Note: Newly added Db is stored in the "/updated" folder. To reflect new changes, Db should be updated.

After adding into the database, changes are automatically updated at 12am or it can be manually updated by running auto_updater.py file

Updating Database

Updating the database is handled by auto_updater.py script. This is an auto updating script which runs at 12am everyday. This checks main db files with updated db files, if there are any updates, updated files are replaced with main db files.

A screenshot of a Windows command prompt window. The title bar shows the path 'C:\Windows\System32\cmd.exe - python auto_updater.py'. The window content shows the following text: 'Microsoft Windows [Version 10.0.18362.959] (c) 2019 Microsoft Corporation. All rights reserved. C:\Users\HP\Documents\python\Scripts\Function-Reference-Guide>prompt \$t\$g 18:36:03.63>python auto_updater.py *** Database Updated *** next update in 6:23:31 hours'. The prompt is a green character on a black background.

```
C:\Windows\System32\cmd.exe - python auto_updater.py
Microsoft Windows [Version 10.0.18362.959]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\HP\Documents\python\Scripts\Function-Reference-Guide>prompt $t$g

18:36:03.63>python auto_updater.py
*** Database Updated ***
next update in 6:23:31 hours
```

There is a log.txt file to log all the changes that occurred in the database.