Data Base Field (Used in Python) FMDB

	Table Name:	FMDB
S.No	Columns:	Data Basa Field (Head in Buthon)
3.IVO	Columns:	Data Base Field (Used in Python)
1	Manufacturer	Manufacturer
2	Model/Name	Modelname
3	Version	Version
4	Type	Type
5	Release Date	Releasedate
6	Checksum	Checksum
7	EMBA tested	Embatested
8	EMBA link to report	Embalinktoreport
9	EMBArk link to report	Embarklinktoreport
10	Firmware downloads link	Fwdownlink
11	Firmware filesystem link	Fwfilelinktolocal
12	Firware File ID	Fwfileid
	The Walle The 15	
13	Additional Data	Fwadddata
14	Firmware filename	Fwfilename
15	Firmware file size	Filesize
16	Firmware file last edit	Lasteditdate
17		Uploadedonembark
17	Check for File upload in Embark	Embarkfileid
18 19	Embark Unique File ID Status of Embark File	Startedanalysisonembark
	-	
Note:	The data is assumed to as per the information available and can be changed at	

database.py contains the functions for running/ usage of the database, main_d

Acronym/ Description (with example)

Firmware Database

Acronym/ Description (with example)

(e.g., Siemens, D-Link, AVM, ABB, ...)

Please refer to the link for all vendors needed for the project:

Vendors (https://github.com/amosproj/amos2022ss01-firmware-downloader/blob/main/Documentation/Vendors%20to%20be%20investigated.pdf)

(e.g., S7-1500, DIR300, Scalance-X, ...)

(e.g., 1.2.3)

(e.g., Router, Switch, Firewall, PLC, ...)

If available from web scraper

sha512

yes/no

filesystem

(http://...

vendor link

to find it on the filesystem

Firmware filesystem unique index id for each new file added into DB or local file system (In future, to integrate with EMBA/ EMBArk) -- uuid5 is based on the url of firmware (if url is not present uuid1 will be used)

Additional Data (e.g., all additional description about the product)

The data crawled from Web page is stored in this field for additional data accompany
The Size of file in bytes and is fetched once it is downloaded in the system
The Last Edit time details is fetched once it is downloaded in the system

Check for File upload in Embark

Embark Unique File ID

Status of Embark File

any moment based on the changes needed in the Project 'atabase.py/test_database.py is used to test run the working of sqlite3 database

Data Base (As per SQLite3 Config) Data Type Constraint

TEXT	NOT NULL
VARCHAR	NOT NULL
TEXT	NOT NULL
TEXT	NOT NULL
TEXT	-
TEXT	-
TEXT	NOT NULL
TEXT	-
TEXT	-
TEXT	NOT NULL
TEXT	NOT NULL
VARCHAR	PRIMARY KEY
TEXT	-

NOT NULL

-

FALSE

NULL

FALSE

VARCHAR

TEXT TEXT

BOOLEAN

VARCHAR

BOOLEAN