Frostmark Documentation

Peter Badida

Mar 19, 2019

Contents:

1 Getting started 1

2 Config 3
2.1 React GUI 3

3 Entrypoint 5

4 Common 7

5 DB Base 9

6 Database 11

7 Models 13

8 User data 15

9 Parser 17

10 Profiles 19

11 Importer 21

12 Exporter 23

13 Core 25

14 Tests 27
14.1 Test: Database 27

15 Indices and tables 29

Python Module Index 31

CHAPTER 1

Getting started

CHAPTER 2

Config

Modify how the application runs with the Environment variables.

2.1 React GUI

FROSTMARK_HOST Specify what host you want to run the server layer between Frostmark and React frontend displaying the bookmarks.

2.1.1 Development

REACT_PROXY Specify the endpoint for all the requests attempted to fetch from with Node's `fetch()`.

CHAPTER 3

Entrypoint

Module for interfacing with the package via python command:

```
python -m frostmark
```

CHAPTER 4

Common

Module for common functions.

CHAPTER 5

DB Base

Module for creating a connection to SQLite DB and SQLAlchemy declarative base home.

CHAPTER 6

Database

Module for creating SQLite DB schema and session retrieving.

frostmark.db.**folder_check_root**(*session*)
Check whether default rows for Folder model exist and create them if not.

frostmark.db.**get_session**()
Create DB schema and return a new session.

CHAPTER 7

Models

ORM SQLAlchemy models for Frostmark application storage.

class frostmark.models.**Bookmark**(***kwargs*)
Bookmark item containing URL, title, icon (favicon.ico) and folder_id.

class frostmark.models.**Folder**(***kwargs*)
Folder item for grouping bookmarks. ID 0 is reserved for ROOT folder.

get_root
Return root folder constants to e.g. create root folder value in DB if it does not exist.

CHAPTER 8

User data

CHAPTER 9

Parser

Module for parsing arguments from console.

class frostmark.parser.**ExecuteAction**(**a*, *func=None*, *func_args=()*, *func_kwargs={}*, ***kw*)

ArgumentParser action for add_argument(action=...)

Executes a function and its args + kwargs passed as the __init__ arguments:

- func
- func_args
- func_kwargs

together with argument values inserted into func_kwargs as 'arg_values' and exits immediately.

class frostmark.parser.**FrostmarkArgumentParser**(*prog=None*, *usage=None*, *description=None*, *epilog=None*, *parents=[]*, *formatter_class=<class 'argparse.HelpFormatter'>*, *prefix_chars='-'*, *fromfile_prefix_chars=None*, *argument_default=None*, *conflict_handler='error'*, *add_help=True*, *allow_abbrev=True*)

Inheriting from *ArgumentParser* to print custom print message.

CHAPTER 10

Profiles

Module for retrieving all ‘profiles’ from specified browser.

CHAPTER 11

Importer

Import bookmarks from various bookmarks database files into internal database.

class frostmark.importer.**Importer**

Interface for retrieving and importing bookmarks into local storage for multiple backends.

import_from

Import bookmarks from particular path into internal storage.

CHAPTER 12

Exporter

Export bookmarks from internal database into various formats.

class frostmark.exporter.**Exporter**

Interface for retrieving and exporting bookmarks from local storage to multiple backends.

export_to

Export bookmarks from internal storage to particular path.

CHAPTER 13

Core

CHAPTER 14

Tests

14.1 Test: Database

Module for creating a connection to SQLite DB and SQLAlchemy declarative base home.

class frostmark.tests.test_database.**DBBaseTestCase**(*methodName='runTest'*)

TestCase for SQLite database backend.

test_db_base()

Test all variables, locations, files for creating DB base.

test_db_create()

Test creating SQLite3 DB only (without tables) in the user_data section.

test_db_session()

Test getting session for SQLite DB which passively creates a new DB (new .sqlite file) if it isn't present yet.

CHAPTER 15

Indices and tables

- genindex
- modindex
- search

Python Module Index

f

frostmark.__main__, 5
frostmark.common, 7
frostmark.core, 25
frostmark.db, 11
frostmark.db_base, 9
frostmark.exporter, 23
frostmark.importer, 21
frostmark.models, 13
frostmark.parser, 17
frostmark.profiles, 19
frostmark.tests.test_database, 27
frostmark.user_data, 15

Index

B

Bookmark (*class in frostmark.models*), 13

D

DBBaseTestCase (*class in frostmark.tests.test_database*), 27

E

ExecuteAction (*class in frostmark.parser*), 17
export_to (*frostmark.exporter.Exporter attribute*), 23
Exporter (*class in frostmark.exporter*), 23

F

Folder (*class in frostmark.models*), 13
folder_check_root() (*in module frostmark.db*), 11
frostmark.__main__ (*module*), 5
frostmark.common (*module*), 7
frostmark.core (*module*), 25
frostmark.db (*module*), 11
frostmark.db_base (*module*), 9
frostmark.exporter (*module*), 23
frostmark.importer (*module*), 21
frostmark.models (*module*), 13
frostmark.parser (*module*), 17
frostmark.profiles (*module*), 19
frostmark.tests.test_database (*module*), 27
frostmark.user_data (*module*), 15
FrostmarkArgumentParser (*class in frostmark.parser*), 17

G

get_root (*frostmark.models.Folder attribute*), 13
get_session() (*in module frostmark.db*), 11

I

import_from (*frostmark.importer.Importer attribute*), 21
Importer (*class in frostmark.importer*), 21

T

test_db_base() (*frostmark.tests.test_database.DBBaseTestCase method*), 27
test_db_create() (*frostmark.tests.test_database.DBBaseTestCase method*), 27
test_db_session() (*frostmark.tests.test_database.DBBaseTestCase method*), 27