Flux

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Chapter 1

Namespace Index

1.1 Package List

Here are the packages with brief descriptions (if available):

db 7
flux 8

Chapter 2

Class Index

2.1 Class List

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

db.Snapshots (Pack utilities for snapshots table) 9
db.Snapshots.Snapshots.DoesNotExist (Raised when a database object does not exist) 12
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db.Timelines.Timelines.DoesNotExist (Raised when a database object does not exist) 15

Chapter 3

File Index

3.1 File List

Here is a list of all files with brief descriptions:

src/db.py 17
src/flux.py 18

Chapter 4

Namespace Documentation

4.1 Package db

Classes

- class Timelines

  Pack utilities for timelines table.

- class Snapshots

  Pack utilities for snapshots table.

Variables

- string _DB_PATH = '../TIME'
- tuple db = sqlite3.connect(_DB_PATH)

4.1.1 Variable Documentation

4.1.1.1 string db._DB_PATH = '../TIME'

Definition at line 12 of file db.py.

4.1.1.2 tuple db.db = sqlite3.connect(_DB_PATH)

Definition at line 15 of file db.py.

4.2 Package flux

Chapter 5

Class Documentation

5.1 db.Snapshots Class Reference

Pack utilities for snapshots table.

Classes

- class DoesNotExist

  Raised when a database object does not exist.

Public Member Functions

- def new_base

  Adds a new base snapshot.

- def new_incremental

  Adds a new incremental snapshot.

- def new_delete

  Adds a new delete snapshot.

- def new_rename

  Adds a new rename snapshot.

- def new_move

  Adds a new move snapshot.

5.1.1 Detailed Description

Pack utilities for snapshots table.

Definition at line 154 of file db.py.

5.1.2 Member Function Documentation

5.1.2.1 def db.Snapshots.new_base (*timeline*, *timestamp*, *path*)

Adds a new base snapshot.

Parameters:

timeline,: timeline the snapshot belongs to

timestamp,: time of the snapshot

path,: path where base snapshot file was stored

Definition at line 171 of file db.py.

5.1.2.2 def db.Snapshots.new_delete (*timeline*, *timestamp*, *related_to* = `None`)

Adds a new delete snapshot.

Parameters:

timeline,: timeline the snapshot belongs to

timestamp,: time of the snapshot

related_to,: optional, if exists, it indicates the deletion is related to a move operation. Then related_to is the id of the destination timeline

Definition at line 202 of file db.py.

5.1.2.3 def db.Snapshots.new_incremental (*timeline*, *timestamp*, *path*)

Adds a new incremental snapshot.

Parameters:

timeline,: timeline the snapshot belongs to

timestamp,: time of the snapshot

path,: path where incremental snapshot file was stored

Definition at line 186 of file db.py.

5.1.2.4 def db.Snapshots.new_move (*old_timeline*, *new_timeline*, *timestamp*)

Adds a new move snapshot.

Parameters:

old_timeline,: timeline of the previous name

new_timeline,: timeline of the new name

timestamp,: time of the snapshot

Definition at line 238 of file db.py.

5.1.2.5 def db.Snapshots.new_rename (*old_timeline*, *new_timeline*, *timestamp*)

Adds a new rename snapshot.

Parameters:

old_timeline,: timeline of the previous name

new_timeline,: timeline of the new name

timestamp,: time of the snapshot

Definition at line 220 of file db.py.

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

- src/db.py

5.2 db.Snapshots.Snapshots.DoesNotExist Class Reference

Raised when a database object does not exist.

Public Member Functions

- def __init__
- def __str__

Public Attributes

- info

5.2.1 Detailed Description

Raised when a database object does not exist.

Definition at line 156 of file db.py.

5.2.2 Member Function Documentation

5.2.2.1 def db.Snapshots.Snapshots.DoesNotExist.__init__ (*self*, *info*)

Parameters:

info additional info about the object that does not exist

Definition at line 159 of file db.py.

5.2.2.2 def db.Snapshots.Snapshots.DoesNotExist.__str__ (*self*)

Definition at line 162 of file db.py.

5.2.3 Member Data Documentation

5.2.3.1 db.Snapshots.Snapshots.DoesNotExist.info

Definition at line 160 of file db.py.

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

- src/db.py

5.3 db.Timelines Class Reference

Pack utilities for timelines table.

Classes

- class DoesNotExist
  Raised when a database object does not exist.

Public Member Functions

- def add_timeline
  Insert a new timeline based on a path.
- def get_path
  Path of a timeline.
- def get_timeline
  Timeline based on a path.
- def get
  Fields of a timeline.
- def check_db
  Check database and insert the base timeline if it's needed.

5.3.1 Detailed Description

Pack utilities for timelines table.

Definition at line 19 of file db.py.

5.3.2 Member Function Documentation

5.3.2.1 def db.Timelines.add_timeline (*p*)

Insert a new timeline based on a path.

Parameters:

p path represented by the timeline

Returns:

the new id

Exceptions:

pysqlite2.dbapi2.IntegrityError if the path is already in the database

Definition at line 35 of file db.py.

5.3.2.2 def db.Timelines.check_db ()

Check database and insert the base timeline if it's needed.

Definition at line 139 of file db.py.

5.3.2.3 def db.Timelines.get (*id*)

Fields of a timeline.

Parameters:

id id of the timeline to be retrieved

Returns:

fields of the timeline with that id in a dictionary fashion

Definition at line 125 of file db.py.

5.3.2.4 def db.Timelines.get_path (*id*)

Path of a timeline.

Parameters:

id id of the timeline

Returns:

the path linked to a timeline id

Exceptions:

Timeline.DoesNotExist,: when the id is not within the db

Definition at line 85 of file db.py.

5.3.2.5 def db.Timelines.get_timeline (*p*)

Timeline based on a path.

Parameters:

p path of the timeline to look for

Returns:

id of the timeline linked to the path

Exceptions:

Timeline.DoesNotExist,: when there is no timeline linked to the path

Definition at line 102 of file db.py.

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

- src/db.py

5.4 db.Timelines.Timelines.DoesNotExist Class Reference

Raised when a database object does not exist.

Public Member Functions

- def __init__
- def __str__

Public Attributes

- info

5.4.1 Detailed Description

Raised when a database object does not exist.

Definition at line 21 of file db.py.

5.4.2 Member Function Documentation

5.4.2.1 def db.Timelines.Timelines.DoesNotExist.__init__ (*self*, *info*)

Parameters:

info,: additional info about the object that does not exist

Definition at line 24 of file db.py.

5.4.2.2 def db.Timelines.Timelines.DoesNotExist.__str__ (*self*)

Definition at line 27 of file db.py.

5.4.3 Member Data Documentation

5.4.3.1 db.Timelines.Timelines.DoesNotExist.info

Definition at line 25 of file db.py.

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

- src/db.py

Chapter 6

File Documentation

6.1 src/db.py File Reference

Classes

- class db.Timelines

  Pack utilities for timelines table.

- class db.Timelines.Timelines.DoesNotExist

  Raised when a database object does not exist.

- class db.Snapshots

  Pack utilities for snapshots table.

- class db.Snapshots.Snapshots.DoesNotExist

  Raised when a database object does not exist.

Packages

- package db

Variables

- string db._DB_PATH = '../TIME'
- tuple db.db = sqlite3.connect(_DB_PATH)

6.2 src/flux.py File Reference

Packages

- package flux

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