puffotter

Release 0.3.1

Hermann Krumrey

Sep 14, 2019

CONTENTS

Contents:

CHAPTER

ONE

PUFFOTTER

1.1 puffotter package

1.1.1 Subpackages

puffotter.test package

Submodules

puffotter.test.TestCrypto module

class puffotter.test.TestCrypto.**TestCrypto**(*methodName='runTest'*)
Bases: unittest.case.TestCase

Tests cryptographical functions

test_hashing()
Tests that passwords can be hashed successfully :return: None

test_hashing_strings()
Tests that password hashing and verifying works with string as well :return: None

test_salt()
Tests that password hashes are salted :return: None

test_verifying_with_invalid_hash()
Tests that attempting to verify a password with an incorrectly formatted hash will return False :return: None

puffotter.test.TestOs module

class puffotter.test.TestOs.**TestCrypto**(*methodName='runTest'*)
Bases: unittest.case.TestCase

Tests os functions

test_listdir()
Tests the listdir function :return: None

Module contents

1.1.2 Submodules

1.1.3 puffotter.crypto module

puffotter.crypto.**generate_hash**(*password: str*) → str
Salts and hashes a password to generate a hash for storage in a database :param password: The password to hash :return: The hash of the password

puffotter.crypto.**generate_random**(*length: int*) → str
Generates a random byte string consisting of alphanumeric characters Thanks @ Albert (https://stackoverflow.com/users/281021/albert) https://stackoverflow.com/questions/2257441 :param length: The length of the string to generate :return: The generated random byte string

puffotter.crypto.**verify_password**(*password: str*, *hashed: str*)
Verifies that a password matches a given hash :param password: The password to verify :param hashed: The hash to verify the password against :return: True if the password matches, otherwise False

1.1.4 puffotter.init module

puffotter.init.**argparse_add_verbosity**(*parser: argparse.ArgumentParser*)
Adds –quiet, –verbose and –debug parameters to an ArgumentParser :param parser: the parser to which to add those flags :return: None

puffotter.init.**cli_start**(*main_func: Callable*, *arg_parser: argparse.ArgumentParser*, *exit_msg: str = 'Goodbye'*, *package_name: Optional[str] = None*, *sentry_dsn: Optional[str] = None*, *release_name: Optional[str] = None*)
Starts a program and sets up loggign, as well as sentry error tracking :param main_func: The main function to call :param arg_parser: The argument parser to use :param exit_msg: The message printed when the program's execution is

stopped using a keyboard interrupt

Parameters

- **package_name** – The package name of the application
- **sentry_dsn** – The sentry DSN to use
- **release_name** – The name of the release

Returns None

1.1.5 puffotter.os module

puffotter.os.**listdir**(*path: str*, *no_files: bool = False*, *no_dirs: bool = False*, *no_dot: bool = True*) → List[Tuple[str, str]]
Improves on the standard os.listdir function. By default, files and directories starting with . are ignored and one can disable checking for files or directories. Instead of just the filenames, the function returns tuples of filenames and relative file paths. :param path: The path of which to list the contents :param no_files: If set to True, will ignore files :param no_dirs: If set to True, will ignore directories :param no_dot: If set to True, will ignore files starting with . :return: A sorted list of the contents of the directory, consisting of

tuples of the file/directory name and their relative path.

puffotter.os.**makedirs**(*path: str*, *delete_before: bool = False*)

A more pleasant to use makedirs function. Only calls os.makedirs if the directory does not already exist :param path: The path to the directory to create :param delete_before: If True, deletes the directory beforehand,

if it exists

Returns None

1.1.6 puffotter.units module

puffotter.units.**byte_string_to_byte_count**(*byte_string: str*) → int

Converts a string representing bytes to a number of bytes. For example: "500K" -> 500 000

"2.5M" -> 2 500 000 "10GB" -> 10 000 000 000 "30kb/s" -> 30 000

Parameters **byte_string** – The string to convert

Returns The amount of bytes

1.1.7 Module contents

CHAPTER

TWO

INDICES AND TABLES

- genindex
- modindex
- search

PYTHON MODULE INDEX

p

INDEX