BankBarcode Documentation

Release 0.1.4

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CHAPTER 1

BankBarcode

Python library to generate barcodes for financial documents

Currently only the following codes are implemented:

- cuaderno57, Cobros por ventanilla y autoservicio, serie normas y procedimientos bancarios, No57, Enero 2001
  - Recibo507, Recibos y otros (Cobros por Ventanilla y Autoservicio, V2001)

Feel free to implement more.

```
from bankbarcode.cuaderno57 import Recibo507
entity = '01234567'
suffix = '023'
ref = '12345678901'
notice = '123456'
amount = '6543.21'

recibo507 = Recibo507(entity, suffix, ref, notice, amount)

# get checksum value
checksum = recibo507.checksum()

# save barcocde as /tmp/mybarcode.svg
provided_filename = '/tmp/mybarcode.svg'
generated_filename = recibo507.save(provided_filename)

# get a string with the barcode in SVG fromat
svg = recibo507.svg()
```

Read the documentation at http://bankbarcode.readthedocs.org

CHAPTER 2

Backend

BankBarcode uses pyBarcode to generate the barcodes.

2.1 pyBarcode

pyBarcode generates barcodes with Code128 (EAN128) since v0.8b1.

https://bitbucket.org/whitie/python-barcode

2.2 Why not another backend?

2.2.1 python-code128

python-code128 needs python3.

https://bitbucket.org/01100101/code128/overview/

2.2.2 reportlab

reportlab can generate barcodes with code128 but it only creates PDF documents.

http://www.reportlab.com

CHAPTER 3

API

class `bankbarcode.bankbarcode.`**`BankBarcode`**

Base class for barcodes

`__weakref__`

list of weak references to the object (if defined)

`_check_length`(*name*, *value*, *expected_length*, *description*)

Check length of a value.

Parameters

- **`name`** – name of the value
- **`value`** – the value itself
- **`expected_length`** – the expected length of the value
- **`description`** – definition of the expected value

Returns True if value have the expected length, otherwise False

`code`()

Code generation. To implement in child classes

`save`(*path*, *writer_options=None*)

Save barcode in SVG format.

Parameters

- **`path`** – path to SVG file with or without ".svg" extension
- **`writer_options`** – Common options from pyBarcode http://pythonhosted.org/pyBarcode/writers/index.html?#common-options

Returns a string with the name of the file generated

`svg`(*writer_options=None*)

Generate a SVG with the barcode.

Parameters **`writer_options`** – Common options from pyBarcode http://pythonhosted.org/pyBarcode/writers/index.html?#common-options

Returns a string with the barcode in SVG format

class `bankbarcode.cuaderno57.`**`Recibo`**

Base class for receipts (recibos) of Cobros por ventanilla y autoservicio, serie normas y procedimientos bancarios, No57, Enero 2001

_check_amount(*amount*)
Check the amount (Importe)

Parameters **amount** – the amount (Importe)

Returns True if it have the expected length, otherwise False

_check_due_date(*due_date*, *suffix*)
Check due date (Fecha limite) and suffix

Parameters **due_date** – Due Date (Fecha limite)

Returns True if due date is a Datetime or string with format '%Y-%m-%d' and suffix bigger than 499, otherwise False

_check_entity(*value*)
Check entity code (Número de la sociedad emisora)

Parameters **value** – the entity code (Número de la sociedad emisora)

Returns True if it have the expected length, otherwise False

_check_notice(*value*)
Check the notice identification code (Identificación)

Parameters **value** – the notice identification code (Identificación)

Returns True if it have the expected length, otherwise False

_check_ref(*value*)
Check the reference code (Número de referencia)

Parameters **value** – the reference code (Número de referencia)

Returns True if it have the expected length, otherwise False

_check_suffix(*value*)
Check the suffix code (Sufijo)

Parameters **value** – the suffix of the entity (Sufijo)

Returns True if it have the expected length, otherwise False

class bankbarcode.cuaderno57.**Recibo507**(*entity=None*, *suffix=None*, *ref=None*, *notice=None*, *amount=None*, *due_date=None*)
Receipt (Recibo) 507 for Recibos y otros (Cobros por Ventanilla y Autoservicio, V2001)

__init__(*entity=None*, *suffix=None*, *ref=None*, *notice=None*, *amount=None*, *due_date=None*)
Create and object of Recibo507 with checked values.

Parameters

- **entity** – the entity code (Número de la sociedad emisora)
- **suffix** – the suffix of the entity (Sufijo)
- **ref** – the reference code (Número de referencia)
- **notice** – the notice identification code (Identificación)
- **amount** – the amount (Importe)
- **due_date** – Due date (Fecha limite)

Returns an object of Recibo507

amount
The amount (Importe)

Returns the amount (Importe) as an string with 10 characters

amount100()

Remove the decimal point of the amount (Importe)

Returns the amount (Importe) as an unicode string without decimal point

checksum()

Generate the checksum (Dígitos de Control) to be added to reference code (Número de referencia)

Returns the checksum (Dígitos de Control) as an unicode string with 2 characters

code()

Generate the code for the barcode

Returns an unicode string with the code for the barcode

due_date

Due date (Fecha limite)

Returns Datetime with Due date

entity

The entity code (Número de la sociedad emisora)

Returns the entity code (Número de la sociedad emisora) as an string with 8 characters

notice

The notice identification code (Identificación)

Returns the notice identification code (Identificación) as an string with 6 characters

ref

The reference code (Número de referencia)

Returns the reference code (Número de referencia) as an string with 11 characters

suffix

The suffix (Sufijo)

Returns the suffix (Sufijo) as an string with 3 characters

CHAPTER 4

Indices and tables

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