MAXI BAZAR Product Label Generator User Documentation

COMMAND-LINE INTERFACE TOOL DOCUMENTATION

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1. Introduction

1.1. Welcome to the documentation for Maxi Bazar's Product Label Generator, a Python command-line interface tool designed to create a `.pdf` document containing shelf labels of the products in stock.

2. Installation

2.1. To install the programme, First, we need to install Python.

- Visit the official Python website: Python Downloads
- Download the latest version of Python for Windows.
- Run the downloaded installer (`.exe` file)
- Follow the installation wizard, and make sure to check the box that says "Add Python x.x to PATH" during the installation for easier command-line access.
- Once the installation is complete, open a new Command Prompt (Press `Win + R`, type `cmd` and press Enter) and type `python --version` to the prompter to verify the installation.

2.2. Then, we need to install dependency or requirement files. Please make sure that the programme folder contains the following files:

- `barcode_ writer.py`,
- `configs.json`,
- `config.py`,
- `helpers.py`,
- `Pipfile`,
- `pipfile.lock`, and
- `requirements.txt`.

2.3. To install the dependency files of the programme, in the same Command Prompt window, type `pip install -r requirements.txt` and wait for the installation process to finish.

3. Usage

3.1. Basic usage

- The programme is capable of creating a .pdf file from the data provided in a `.csv`, `.xlsm` or `.xlsx` files.
- We can create the .pdf file entering the following command in the Command Line Prompt:

```
barcode_writer.py "<file name or path to file>"
```

  - This command will create a .pdf file of labels from the provided data in `.csv` or `.xlsm`/`.xlsx` file.
  - After a successful execution, the `.pdf` file will be created in the current directory (file) and the programme will print out the results, such as the number of label cards create and the number of erroneous products and the number of their rows in the file.
    - A product can cause an error in the creation of the label card if some of its elements are missing or if its reference code cannot be converted to a barcode image.
  - However, keep in mind that the above command will execute the programme using default configurations.
  - It is, therefore, important to keep in mind that:
    - The name of the `.csv` or `.xlsm`/`.xlsx` files is between the quotation marks (e.g., "GRILLE PRIX STOKO 17-11-2023 OK.xlsm" ✅)
    - The first row of the data provided is the header of the file which contains the columns: Référence, Désignation, Code Rayon, and PV MB (or PV MB CALCULE COEFF).

- In the case of an excel file, the programme will use the data provided in the first spreadsheet.

3.2. Further options

- In any event, the programme will also accept specific parameters that define certain features.
- For this, we can provide optional arguments to the programme as described in the following command:

```
barcode_writer.py "<file name or path to file>" --sheet_name <spreadsheet_name> --header_row <header row>
```

  - `<file name or path to file>`: file name or the complete path to the file;
  - `<spreadsheet_name>`: the name of the spreadsheet in the excel file from which the data should be extracted;
  - `<header_row>`: the position of the header row (e.g., 2 indicates that the second row of the spreadsheet is the header row)
- For example, the following command:

```
barcode_writer.py "test_stock.xlsm" --sheet_name Detail --header_row 2
```

- will create the .pdf file based on the data provided in the Detail spreadsheet of the file test_stock.xlsm which has its column headers on the second row.
- Certain configurations of the .pdf file that will be created upon execution of the programme can also be modified. These configurations are specified in a file named `configs.json`.
- By default, the programme will create a .pdf file:
  - Of size A4 (note that A4 must be between " " in **`configs.json`**,
  - With the top and bottom margins of 7mm and left and right margins of 14mm and,
  - With a dimension of 7x3 (i.e., the label cards will be in a grid with 7 rows and 3 columns)
- Any of these configurations can be modified using a basic text editor (like Notepad on Windows) but take care not to delete or alter the names of the configurations. Otherwise, the programme will cease to function properly.