USER MANUAL

December 2019

USER MANUAL

Table of Contents

[1. GENERAL INFORMATION 3](#_Toc27228732)

[1.1 System Overview 3](#_Toc27228733)

[1.2 Authorized Use Permission 3](#_Toc27228734)

[1.3 Points of Contact 3](#_Toc27228735)

[2. SYSTEM FEATURES 3](#_Toc27228736)

[2.1 Startup 3](#_Toc27228737)

[2.1.1 Display Menu 3](#_Toc27228738)

# GENERAL INFORMATION

## System Overview

**Dublin Bill Management Company** is a start-up that offers its users the ability to manage their utility bills. Their services include tracking for electricity, gas and utility bills. The product, **Dublin Bill Checker**, is a Python-based command line interface that records all customers bills together with a menu to generate queries and reports that can be run against this data.

The database containing all customer information is labelled as **bills.csv** and is located within the same directory as the code itself.

## Authorized Use Permission

**Dublin Bill Checker** is available to the general public. You do not need a password or licence to use this software, however, any database that the user decides to use with the software has to comply with national and international Data Protection laws.

# SYSTEM FEATURES

## User Flow

### 2.1.1 Main Menu

## Bills

Just like with bills with most utility companies, the user will only have the ability to view bills and add new ones. The feature to modify already present bills or delete them will not be implemented.

### 2.2.1 View bills

The utility bills will be displayed in the following format:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| COMPANY NAME | CUSTOMER FULL NAME | DATE BILLED | | | AMOUNT (IN EUR) | CREDIT/DEBIT |
|  |  | YEAR | MONTH | DAY |  |  |

### 2.2.2 Add new bills

Write to a text file.

## Reports

All reports are displayed in the following format:

**Year Total Credited Total Debited**

2016 €123.45 €678.90

2017 €543.21 €987.60

### 2.3.1 Inbuilt

The default reports are as follows:

* 1. The most popular utility company with the **most bills**.
  2. List each utility company with the **total number of bills**.
  3. Filter **bills in date order**.
  4. The **highest credit AND debit amount for a bill**.

### 2.3.2 Searchable by user

The **average spent per period of time** (month/year).

The **average time between bills**.