

USER MANUAL

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1. GENERAL INFORMATION

1.1 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.

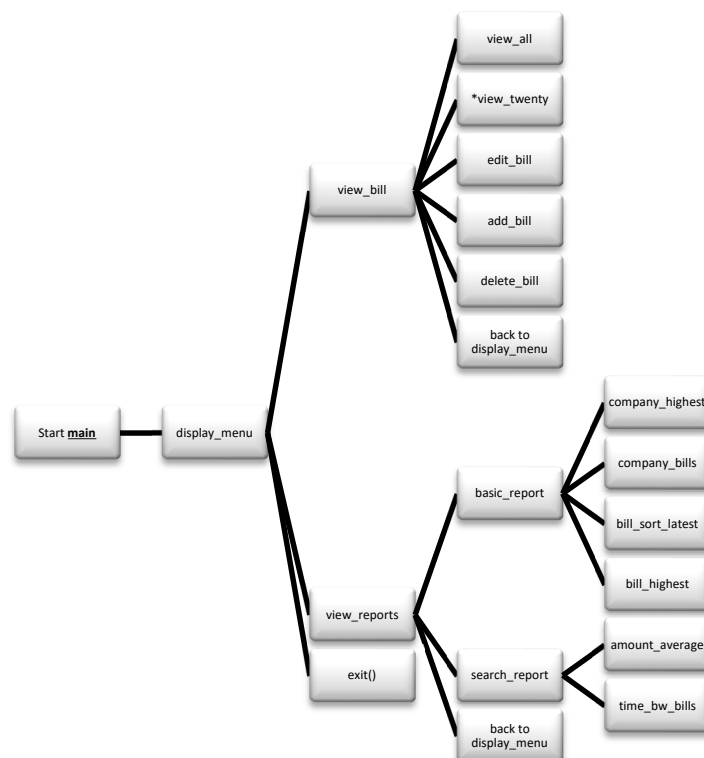
The database containing all customer information is labelled as **bills.csv** and is located within the same directory as the code itself.

1.2 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.

2. SYSTEM FEATURES

2.1 User Flow



2.1.1 Display Menu

2.2 Bills

2.2.1 View and modify 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.

2.2.3 Delete Bills

2.3 Reports

All reports are displayed in the following format:

<u>Year</u>	<u>Total Credited</u>	<u>Total Debited</u>
2016	€123.45	€678.90
2017	€543.21	€987.60

2.3.1 Inbuilt

The default reports are as follows:

- The most popular utility company with the **most bills**.
- List each utility company with the **total number of bills**.
- Filter **bills in date order**.
- 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**.

