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SC 210

Project 3

Documentation:

Corner Grocer Application

V1.0.0

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# **Introduction**

## **Overview:**

* This application takes data received from a text file called itemList.txt, which it then uses the data to visualize all data points gathered.

## **Purpose:**

* This is to assist our clients with making critical decision-making points about how each item is doing within their store.
* Users can search for any specific Item and see different visualized data for each item, simplifying the data collection.

## **Scope**:

* The application requires and depends on the file itenList.txt.
* The application can be used on Windows (PC) and Unix-based Operating systems (MacOS, Linux).

# Installation Instructions

## System Requirements:

* Source code was created and produced on MacOS, using clang++ as compiler (Xcode).
* Source code will need to be opened on an IDE of your choice and then compiled in any format of C++.
* The source code was written locally on Visual Studio Code, which I would recommend for potential IDE for optimal results.
* C++ 11 or higher
  + Use of auto

## Installation Steps:

* Unzip all documents into a local Folder
  + Launch Visual Studio Code
    - Open folder location
* Use a selected C++ compiler of your choice to build
  + Used a Makefile to compile using clang++ on MacOS
    - Attached used Makefile do zip folder
    - Terminal commands for Makefile:
      * make
      * ./main
      * makeclean

# Usage Instructions

## Launching the Application:

* run as C++ within Visual Studio Code
* If using Makefile
  + ./main

## Basic Usage:

A screen shot of a computer

Description automatically generated

* Input 1- 4 to select between options

A screen shot of a computer

Description automatically generated

* When using Option 1
  + All available Items are listed
  + All are Case Sensitive
* Using Options 2 – 3
  + Once back at the main menu, once you options 2 – 3 the correct reports are displayed.
* To Quit
  + Input 4

# Features

* As long as the inputFile.txt is named correctly, the application can pass in any data with a name (string value) and a single numeric value (int).

# File Formats

* Input file requirements
  + itemList.txt
* Output files
  + Frequency.dat

# Known Issues

* The source code has not been tested on any legacy versions of C++
* No ability for users to add new data within the application

# Future Enhancements

* Allow users to bypass the initial itemFile.txt and start from where they left off
* Allow users to save, new additional data points to keep a consistent data visualization