**Documentation of Code Design and Functionality**

**Introduction**

This document describes the design and functionality of the code for the ItemTracker and FileManager classes. The program analyzes the text records that Corner Grocer generate sthroughout the day. The code is designed to manage item frequencies and provide functionalities such as loading items from a file, retrieving frequencies, printing data, and creating backup files.

**ItemTracker Class**

The ItemTracker class is responsible for managing item frequencies. It uses a std::map to store item names and their respective counts. The class provides the following methods:

* **loadItemsFromFile(const std::string& filename)**: Loads items from a specified file and populates the itemFrequency map.
* **getItemFrequency(const std::string& item)**: Returns the frequency of a specified item.
* **printAllFrequencies()**: Prints all items and their frequencies.
* **printHistogram()**: (Assumed method) Prints a histogram of item frequencies.
* **getAllFrequencies()**: Returns the entire itemFrequency map for external use.

**FileManager Class**

The FileManager class handles file operations related to item data. It provides a method for creating backup files:

* **createBackupFile(const std::string& filename, const std::map<std::string, int>& items)**: Creates a backup file with item frequencies. The method writes item names and their counts to the specified file.

**ItemTracker Header File**

A screenshot of a computer

Description automatically generated

**FileManager Header File**

A screenshot of a computer program

Description automatically generated