The Corner Grocer program is a robust C++ application designed to analyze daily purchase records. The program processes text files containing item names purchased throughout the day and offers a variety of functions for analyzing and displaying data. The design focuses on usability, modularity, and adherence to best programming practices.

At the core of the program is the ItemTracker class, which encapsulates the logic for reading, storing, and analyzing data. A std::map<std::string, int> stores item frequencies, where keys represent item names, and values indicate their counts. The program reads input data from CS210\_Project\_Three\_Input\_File.txt and creates a backup file, frequency.dat, ensuring data preservation.

Users interact with the program via a menu system offering four options: search for a specific item’s frequency, display all item frequencies, generate a histogram of item frequencies using asterisks, or exit. The histogram visually represents item quantities, enhancing user understanding of purchase trends.

The code adheres to industry standards, featuring inline comments, descriptive variable names, and a modular structure that facilitates future expansion.