The program offers a user-friendly menu interface with options for searching for an item, printing item frequency lists and histograms, and backing up data. Users can select their desired action by entering the corresponding option number. It also uses a user-validating system to ensure there are no user errors. Here is a screenshot illustrating the menu options displayed to the user and the error handling using ‘Onions’ instead of a number 1-4: A screenshot of a computer

Description automatically generated

A screen shot of a computer

Description automatically generated

To search for an item's frequency, the user enters the item name after selecting the search option. Below is an example of a user entering 'Spinach' to search for its frequency: A screen shot of a computer

Description automatically generated

Upon searching for ‘Spinach’ the program displays the frequency of ‘Spinach’ as 5. Additionally, here are examples of item frequency lists and histograms generated by the program: A black screen with a black background

Description automatically generated

A black screen with white text

Description automatically generated

Lastly, the program ensures data integrity by backing up item frequency data to the 'frequency.dat' file. Here's a screenshot confirming the successful backup process: A screenshot of a computer

Description automatically generated