Introduction

The FedEx Weight Calculator is a graphical user interface (GUI) application designed to assist Material Handlers in calculating the final weight of containers/packages that are to be loaded onto planes. The application ensures that all weight inputs are valid and within specified ranges.

UI Overview

The application consists of a main window where users can input various weights and a few buttons to perform actions.

The Main Window

* Labels: There are three labels prompting the user for input:
  + Total Weight (1100 - 9999 lbs)
  + Dolly Weight (1000 - 3000 lbs)
  + Is this a bulk load? (yes/no)
* Entry Fields: Users input their data in the fields next to the labels.
* Buttons:
  + Calculate Final Weight: This button will compute the final weight based on the inputs.
  + Exit: This button will close the application

Using the Application

Step 1: Input Total Weight

* Enter the total weight of the container between 1100 and 9999 lbs.
* If the input is invalid (empty or out of range), an error message will appear.

Step 2: Input Dolly Weight

* Enter the dolly weight between 1000 and 3000 lbs.
* Similar validation will occur for this input as well.

Step 3: Specify Bulk Load

* Indicate whether the load is a bulk load by typing ‘yes’ or ‘no’.
* If an invalid response is entered, an error message will appear.

Step 4: Input Container Weight (if applicable)

* If you typed ‘yes’ for the bulk load prompt, a new prompt will ask for the container weight.
* Enter the container weight between 100 and 300 lbs.

Step 5: Calculate Final Weight

* Click the Calculate Final Weight button.
* The application will compute the final weight based on your inputs and display it in a message box.

Step 6: Exit Application

* Click the Exit button to close the application.

Error Handling

* The application provides error messages for:
  + Empty inputs
  + Non-numeric values
  + Values outside of specified ranges
  + Invalid bulk load responses (not "yes" or "no")

Conclusion

The FedEx Weight Calculator provides a simple and efficient way to compute container weights for shipping. Please ensure to enter valid data as guided by the application prompts.