**User Guide**

# Shoe Rental Management System User Guide

Welcome to the user guide of the Shoe Inventory Management System. This program allows you to manage the inventory of shoes, rent shoes to customers, and keep track of rented and lost shoes.

## Getting Started

When you run the program, the main menu will appear on your screen. This menu provides options to perform various operations on the shoe inventory. To select an option, you need to enter the corresponding number from the menu and press the "Enter" key.

Before you can start using the system, the inventory data needs to be read. The program comes with some initial data, so you don't need to provide any input. Once the inventory data has been read successfully, you can start using the system. It will automatically read all the inventory data and store it into an array.

## Menu Options

The Shoe Inventory Management System provides the following menu options:

### 1. Rent a pair of shoes to the customer

This option allows you to rent a pair of shoes to the customer. You will be prompted to enter the size of the shoes (small, medium, or large) and the shoe number that the customer wants to rent. If the selected shoes are available, they will be rented to the customer and marked as rented in the inventory. If the shoes are not available, you will be informed that they are already rented.

### 2. Return a pair of shoes from the customer

This option allows you to return a pair of shoes from the customer. You will be prompted to enter the shoe number that the customer wants to return. If the selected shoes are rented and not lost, they will be marked as returned in the inventory. If the shoes are not rented or lost, you will be informed that they cannot be returned.

### 3. Check number of shoes currently rented in each size

This option allows you to check the number of shoes that are currently rented in each size. The program will display the number of small, medium, and large shoes that are rented in each size seperately.

### 4. Check number of shoes currently rented overall

This option allows you to check the total number of shoes that are currently rented. The program will display the sum of the total number of shoes that are rented in all sizes.

### 5. Check number of shoes currently not rented in each size

This option allows you to check the number of shoes that are currently not rented in each size. The program will display the number of small, medium, and large shoes that are not rented.

### 6. Check number of shoes currently not rented overall

This option allows you to check the total number of shoes that are currently not rented. The program will display the total number of shoes that are not rented.

### 7. Get indication of which shoe size is the most and least commonly lost

This option allows you to get an indication of which shoe size is the most and least commonly lost. The program will display the size of shoes that are most and least likely to be lost based on the previous data and statistics.

### 8. Check which specific shoes are lost

This option allows you to check which specific shoes are lost. The program will display the shoe numbers of all the lost shoes of all sizes.

### 9. End the current day

This option allows you to end the current day. This will increase the current day by one and update the lost shoes. This means that at the end of the day all the shoes which are marked as rented are marked to be lost as the customers are not there and they must have gone without returning the shoes. So, they are lost.

### 0. Quit the application

This option allows you to quit the application.

## Conclusion

Congratulations! You have completed the user guide for the Shoe Rental Management System. Now you can start using the system to manage your shoe inventory. If you need any further assistance, please refer to the source code or contact the developer. Thank you for using the Shoe Rental Management System!