Ghafar Final Project Code:

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import java.util.Scanner;
public class Mavenproject1 {

    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        //
        int shoelimit = 15;
        double[] shoeprice = new double[shoelimit];
        String[] shoename = new String[shoelimit];
        int[] shoestock = new int[shoelimit];
        int[] shoesales = new int[shoelimit];

        int menu = 1;
        int shoecount = 0;
        int lowstock = 5;
        //main loop
        while (menu == 1) {
         System.out.println("Ghafar's Shoe Store Inventory System");
         System.out.println("1. Add a new Shoe");
         System.out.println("2. Update product details");
         System.out.println("3. Sell a Shoe");
         System.out.println("4. View sales report");
         System.out.println("5. Check low stock Shoes");
         System.out.println("6. Exit");
         System.out.println("Pick Option: ");
         int option = input.nextInt();
         input.nextLine();
         //main loop
         if (option == 1) {
            if (shoecount <= shoelimit){
                //Add a shoe to inventory
                System.out.println("Enter name of Shoe:");
                shoename[shoecount] = input.nextLine();

                System.out.println("Enter Shoe price:");
                shoeprice[shoecount] = input.nextDouble();

                System.out.println("Enter quantity:");
                shoestock[shoecount] = input.nextInt();

                shoesales[shoecount] = 0;
                shoecount += 1;
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            System.out.println("Shoe added.");

        } else {
            System.out.println("Shoe inventory is full, cannot add more.");
        }
    } else if (option == 2){


        System.out.println("Enter shoe name");
        String shoeToupdate = input.nextLine();
        boolean found = false;

        for(int i = 0; i <= shoename.length; i++){
            if (shoename[i].equalsIgnoreCase(shoeToupdate)) {
                found = true;
                System.out.println("Enter new stock quantity:");
                shoestock[i] = input.nextInt();

                System.out.println("Enter new price:");
                shoeprice[i] = input.nextDouble();

                System.out.println("Shoe updated.");
                break;
            }
        }
        if (found = false){
            System.out.println("Shoe not found.");
        }

    } else if (option == 3) {
        // Sell a product
        System.out.println("Enter the shoe being sold");
        String shoeTosell = input.nextLine();
        boolean found = false;

            for (int i = 0; i < shoecount; i++) {
                if (shoename[i].equalsIgnoreCase(shoeTosell)) {
                    found = true;
                    System.out.print("Enter quantity to sell: ");
                    int selltotal = input.nextInt();

                    if (selltotal <= shoestock[i]) {
                        shoestock[i] -= selltotal;
                        shoesales[i] += selltotal;
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                    System.out.println("Sale recorded successfully.");
                } else {
                    System.out.println("Not enough stock for this shoe.");
                }
                break;
            }
        }

        if (!found) {
            System.out.println("Shoe not found.");
        }
    } else if (option == 4) {
        // View sales report
        System.out.println("Sales Report:");
        for (int i = 0; i < shoecount; i++) {
            System.out.println("Shoe: " + shoename[i] + ", Sales: " + shoesales[i] + " units, Total
Sales: $" + (shoesales[i] * shoeprice[i]));
        }
    } else if (option == 5) {
        // Check low stock shoes

        boolean stocklow = false;
        for (int i = 0; i < shoecount; i++) {
            if (shoestock[i] < lowstock) {
                stocklow = true;
                System.out.println("Low Stock Shoes:");
                System.out.println("Shoe: " + shoename[i] + ", Stock: " + shoestock[i]);
            }
        }

        if (stocklow == false) {
            System.out.println("No Shoes are low on stock.");
        }
    } else if (option == 6) {
        // Exit the program
        System.out.println("System exited.");
        break;
    } else {
        System.out.println("Invalid option. Try again.");
    }
 }
input.close();
}
```

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}
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