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import csv # csv library
from datetime import datetime # Import datetime to timestamp entries
def add_list(): ##first function use to add item
    while True:
        try:
            count = int(input("How much things to buy: ")) #Ask how many items
            if count < 0: #Prevent negative numbers
                print("Error")
            break #Break loop if value is valid
        except ValueError: #Handle non-integer input
            print("Integer number.")
    for i in range(count): #loop that run the same time with value that key in previous value
        item = input("Enter buy item: ").strip() #name of the item
        days = datetime.now().strftime("[%Y-%m-%d(%H:%M)]") #current date&time
        place = input("Where to buy?: ").strip() #grocery name
        price = float(input("How much in euro?:")) #price value for the item

        with open("list_files.csv","a",newline='') as file: #open a file to put in all the item detail
            writer = csv.writer(file)
            writer.writerow([item,days,place, price])
    print("Saved list_file.csv")

def show_list(): ##second function use to collect all the item that I key in in add item function
    try:
        with open("list_files.csv", "r") as file:  # Open CSV file
            # Display table header
            print(f"\n{'Item':<10}{'Days':<17}{'Place':<8}{'Price(€)'}")
            print("-" * 43)

            # Print each line from CSV file
            for line in csv.reader(file):
                print(" ".join(line))

    except FileNotFoundError:  # If file does not exist
        print("Error")

    print("End List")

def shop_name(): ##third function use to change the grocery name
    show_list()
    old_name = input("Original name: ").strip() #key in the current existing grocery name
    new_name = input("New name: ").strip() #key in the new grocery name
    if not old_name or not new_name: #If input empty
        print("Cancel")
        return
    rows = [] #Store updated CSV rows
    changed = False #Track if replacement happened
    try:
        with open("list_files.csv", "r", newline='') as file:
            reader = csv.reader(file)
            for row in reader:
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            # Check if row has at least 3 items and if shop matches old name
            if len(row) >= 3 and row[2].strip() == old_name:
                row[2] = new_name  # Replace shop name
                changed = True
            rows.append(row)  # Keep row

        # Rewrite updated data back to file
        with open("list_files.csv", "w", newline='') as file:
            writer = csv.writer(file)
            writer.writerows(rows)

        if changed:
            print(f"Changed {old_name} -> {new_name}")
            print("Updated")
        else:
            print(f"No shop name called '{old_name}' found.")

    except FileNotFoundError:  # If CSV doesn't exist
        print("Wrong")

def total_spend(): ##fourth function use to calculate the total of the price
    show_list()  # Show items before computing total

    total = 0  # Running sum

    try:
        with open("list_files.csv", "r", newline='') as file:
            reader = csv.reader(file)
            for row in reader:
                if len(row) >= 4:  # Ensure row contains price
                    try:
                        total += float(row[3])  # Add price
                    except ValueError:  # Skip if price invalid
                        continue

        print(f"Total: {total:.2f} euro")  # Display total spent

    except FileNotFoundError:
        print("Empty")

def delete(): ##fifth function use to delete the item that exist in the list
    show_list() #show all items
    delete_item = input("Item to delete: ").strip() #item name to delete
    if not delete_item:
        print("Follow item list")
        return
    line = [] #List to hold remaining items
    delete = False #Track if item is deleted
    try:
        with open("list_files.csv","r",newline='') as file:
            reader = csv.reader(file)
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            for row in reader: #If item name matches, skip (effectively deleting)
                if len(row) >= 1 and row[0].strip() == delete_item:
                    print(f"Deleted: {row[0]}")
                    delete = True
                else:
                    line.append(row)
        if delete: #If deleted, rewrite updated list
            with open("list_files.csv","w",newline='') as file:
                writer = csv.writer(file)
                writer.writerows(line)
            print("Delete Success")
        else:
            print("Item not found")
    except Exception as e:
        print("Error")

def done(): ##last function(function that use to exit the whole program)
    user = input("Finish? (y/n): ")
    if user == 'y':
        print("Goodbye!")
        return True

while True:  ## Main loop
        print("Menu:") ## menu options
        print("1. Add")
        print("2. Show")
        print("3. Grocery")
        print("4. Total spend")
        print("5. Delete")
        print("6. Exit")
        try:
            what = int(input("Enter the menu: ")) ## key in choice based on above option
        except ValueError: ## get error if not key in the option that given on the above
            print("Enter number(1-6)")
            continue ## rerun again the main loop
        ## Match menu option with functions
        if what == 1:
            add_list()
        elif what == 2:
            show_list()
        elif what == 3:
            shop_name()
        elif what == 4:
            total_spend()
        elif what == 5:
            delete()
        elif what == 6:
            if done():  ## Exit only if confirmed
                break
        else:
            print("Choose 1 - 6:")
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