In [3]:
```python
from prettytable import PrettyTable

def displayMenu():
    print("1. Report Lost Item")
    print("2. Find Item")
    print("3. View Lost Items")
    print("4. Auction Item")
    print("5. Mark Item as Sold")
    print("6. Save data into a text file")
    print("7. Displaying removed items")
    print("0. Exit\n")

def reportLostItem(items):
    try:
        itemName = input("Enter the name of the lost item: ")
        description = input("Enter a brief description: ")
        contactNo = int(input("Enter your contact number: "))

        reportID = len(items) + 1
        items[reportID] = {'Name': itemName, 'Description': description, 'Contact':

        print(f"Lost item reported successfully. Report ID: {reportID}")
    except:
        print("An error occurred. Please try again.")

def findItem(items):
    try:
        reportID = int(input("Enter the report ID of the lost item: "))

        if reportID in items:
            itemData = items[reportID]
            print(f"Found Item: {itemData['Name']}")
        else:
            print("Item not found. Check the report ID and try again.")
    except ValueError:
        print("Invalid input. Please enter a valid report ID.")

def viewLostItems(items):
    if not items:
        print("No lost items reported.")
    else:
        print("List of Lost Items:")
        table = PrettyTable()
        table.field_names = ["Report ID", "Name", "Description", "Contact"]

        for report_id, item_data in items.items():
            table.add_row([report_id, item_data['Name'], item_data['Description'],

        print(table)

def auctionItem(items):
    print("Select an item to auction:")
    viewLostItems(items)
    try:
        reportID = int(input("Enter the report ID of the item to auction: "))

        if reportID in items:
            foundItem = items[reportID]['Name']
            print(f"Auctioning Item: {foundItem}")
            print("Auction completed successfully!")
        else:
            print("Item not found. Check the report ID and try again.")
```

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        except ValueError:
            print("Invalid input. Please enter a valid report ID.")

def markItemAsSold(items):
    print("Select an item to mark as sold:")
    viewLostItems(items)
    try:
        reportID = int(input("Enter the report ID of the item to mark as sold: "))

        if reportID in items:
            foundItem = items[reportID]['Name']
            print(f"Marking Item as Sold: {foundItem}")
            items.pop(reportID)
            print("Item marked as sold successfully!")
        else:
            print("Item not found. Check the report ID and try again.")
    except ValueError:
        print("Invalid input. Please enter a valid report ID.")

def saveDataToFile(items, filename='lost_items.txt'):
    with open(filename, 'w') as file:
        for report_id, item_data in items.items():
            file.write(f"{report_id},{item_data['Name']},{item_data['Description']}

def removeSoldItems(items):
    sold_items = [report_id for report_id, item_data in items.items() if item_data.
    for report_id in sold_items:
        items.pop(report_id, None)

def main():
    items = {}
    while True:
        try:
            displayMenu()
            choice = input("Enter your choice: ")
            print("-" * 20)

            if choice == '1':
                reportLostItem(items)
                print()
            elif choice == '2':
                findItem(items)
                print()
            elif choice == '3':
                viewLostItems(items)
                print()
            elif choice == '4':
                auctionItem(items)
                print()
            elif choice == '5':
                markItemAsSold(items)
                print()
            elif choice == '6':
                saveDataToFile(items)
                print("Data saved to 'lost_items.txt'")
                print()
            elif choice == '7':
                removeSoldItems(items)
                print("Sold items removed successfully.")
                print()
            elif choice == '0':
                print("Exiting the Lost and Found manager. Goodbye!")
                break
            else:
```

```python
                print("Invalid choice. Please try again.")
        except Exception as e:
            print(f"An error occurred: {e}. Please try again.")


main()
```

```
1. Report Lost Item
2. Find Item
3. View Lost Items
4. Auction Item
5. Mark Item as Sold
6. Save data into a text file
7. Displaying removed items
0. Exit

Enter your choice: 1
--------------------
Enter the name of the lost item: rvbiu3r
Enter a brief description: rfoeruf
Enter your contact number: 5456
Lost item reported successfully. Report ID: 1

1. Report Lost Item
2. Find Item
3. View Lost Items
4. Auction Item
5. Mark Item as Sold
6. Save data into a text file
7. Displaying removed items
0. Exit

Enter your choice: 2
--------------------
Enter the report ID of the lost item: 1
Found Item: rvbiu3r

1. Report Lost Item
2. Find Item
3. View Lost Items
4. Auction Item
5. Mark Item as Sold
6. Save data into a text file
7. Displaying removed items
0. Exit

Enter your choice: 3
--------------------
List of Lost Items:
+-----------+---------+-------------+---------+
| Report ID |  Name   | Description | Contact |
+-----------+---------+-------------+---------+
|     1     | rvbiu3r |   rfoeruf   |  5456   |
+-----------+---------+-------------+---------+

1. Report Lost Item
2. Find Item
3. View Lost Items
4. Auction Item
5. Mark Item as Sold
6. Save data into a text file
7. Displaying removed items
0. Exit

Enter your choice: 4
--------------------
Select an item to auction:
List of Lost Items:
+-----------+---------+-------------+---------+
| Report ID |  Name   | Description | Contact |
+-----------+---------+-------------+---------+
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```
|     1     | rvbiu3r |   rfoeruf   |  5456   |
+-----------+---------+-------------+---------+
Enter the report ID of the item to auction: 1
Auctioning Item: rvbiu3r
Auction completed successfully!

1. Report Lost Item
2. Find Item
3. View Lost Items
4. Auction Item
5. Mark Item as Sold
6. Save data into a text file
7. Displaying removed items
0. Exit

Enter your choice: 5
--------------------
Select an item to mark as sold:
List of Lost Items:
+-----------+---------+-------------+---------+
| Report ID |  Name   | Description | Contact |
+-----------+---------+-------------+---------+
|     1     | rvbiu3r |   rfoeruf   |  5456   |
+-----------+---------+-------------+---------+
Enter the report ID of the item to mark as sold: 1
Marking Item as Sold: rvbiu3r
Item marked as sold successfully!

1. Report Lost Item
2. Find Item
3. View Lost Items
4. Auction Item
5. Mark Item as Sold
6. Save data into a text file
7. Displaying removed items
0. Exit

Enter your choice: 6
--------------------
Data saved to 'lost_items.txt'

1. Report Lost Item
2. Find Item
3. View Lost Items
4. Auction Item
5. Mark Item as Sold
6. Save data into a text file
7. Displaying removed items
0. Exit

Enter your choice: 7
--------------------
Sold items removed successfully.

1. Report Lost Item
2. Find Item
3. View Lost Items
4. Auction Item
5. Mark Item as Sold
6. Save data into a text file
7. Displaying removed items
0. Exit

Enter your choice: 0
```

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--------------------
Exiting the Lost and Found manager. Goodbye!
```

In [ ]: