



Institute of Computer Engineering Technology



iCET Certified Developer

Coursework

Assignment	Object Oriented Programming
Batch No	iCD 109
Name	iFRIEND Contact Organizer
Ass. Date	02nd June 2024

Java Swing Application

You have created a CLI application for iFRIENDS Contact Management System in a previous. iFRIENDS Contact Management System has given you the opportunity to create the GUI application because you have successfully completed CLI application.

When you run the application, you should come up with something similar to the following Graphical User Interface (GUI), where the user can click button and go to that window. This will be the Home Page of the application that you will be developing.

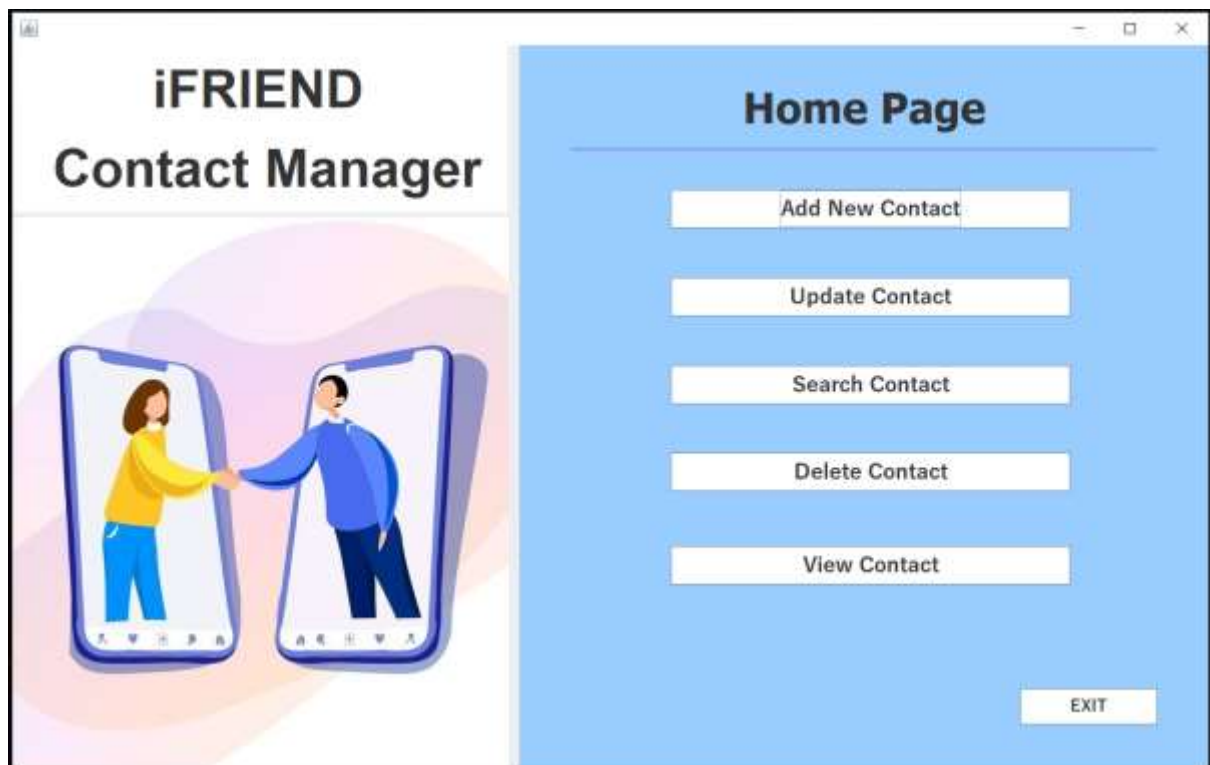


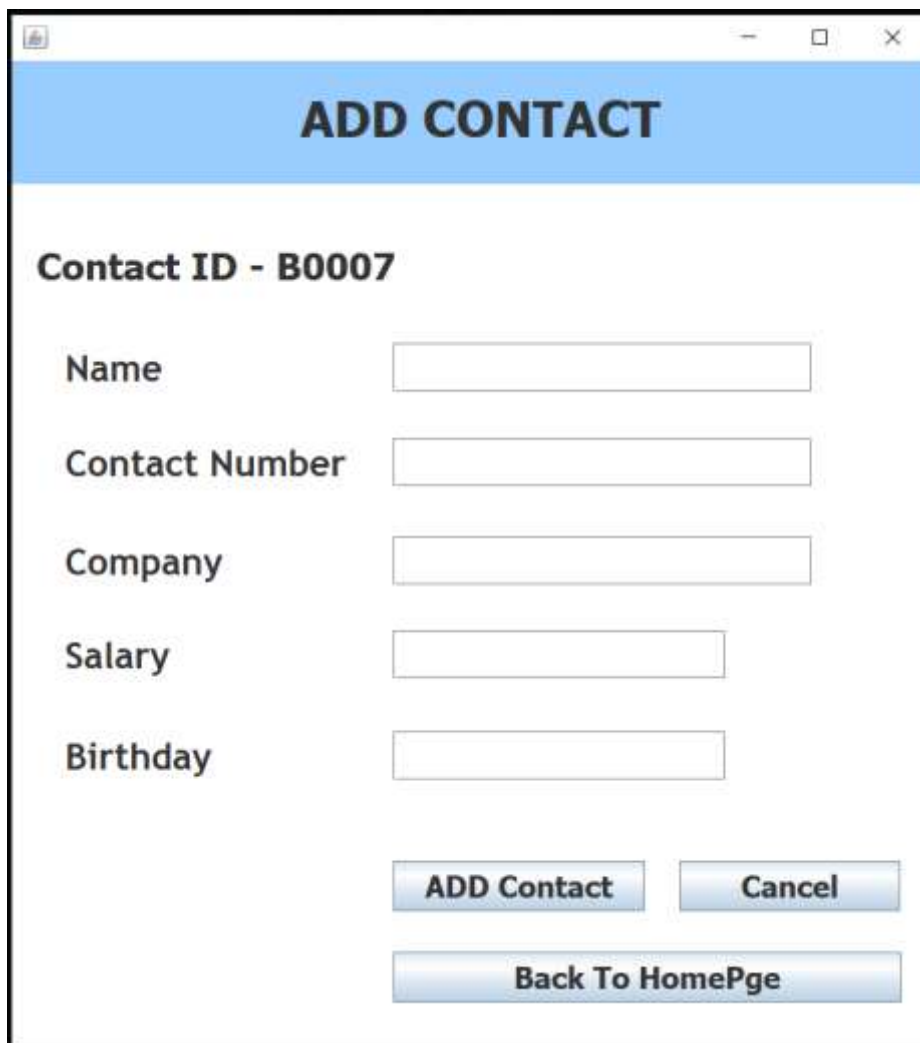
Figure 1 – Home Page of the iFRIENDS Contact Management System

01. ADD New Contact

When user click Add New Contacts button in home page, user can go to the following Add New Contacts interface(Figure 2). First, the user needs to enter the Name, Contact Number, Company, Salary and Birthday. After entering the Contact Number, the system should validate Contact Number. If the user has entered an invalid phone number (as an example, start without “0” or phone number has more than 10 numbers), the user should be notified about it through a message box. When add new contact successfully, system should prompt successfully message(Figure 3).

When the Add New Contacts window loaded, Contacts ID should be generated by the system and display in the window. Contacts Id can not generate by randomly and generate the next Contacts Id accordingly to the last Contacts Id. Contacts Id can not be repeated.

If user want to cancel input , user can click cancel button. When click cancel button every textfield should clear. The Back To Home page button can use to go HomePage.



ADD CONTACT

Contact ID - B0007

Name

Contact Number

Company

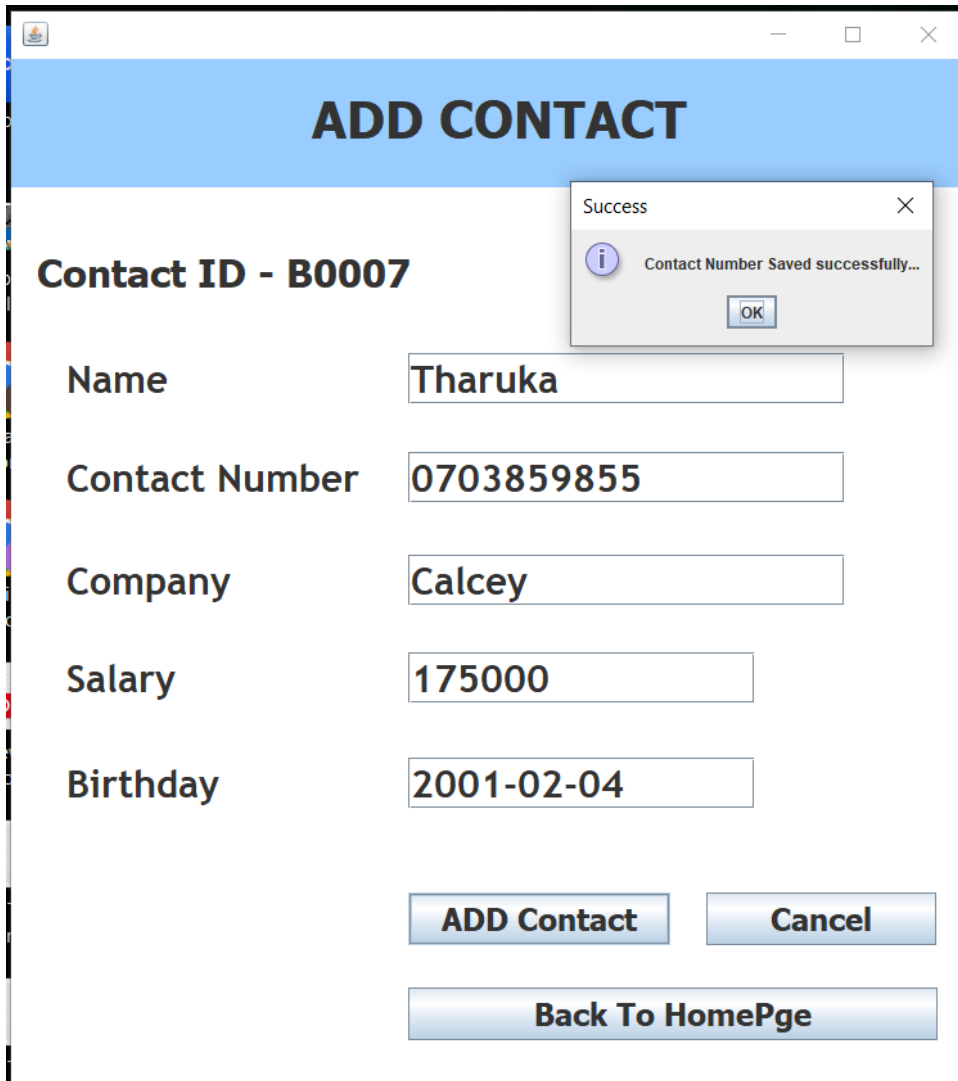
Salary

Birthday

ADD Contact **Cancel**

Back To HomePge

Figure 2 – Add New Customer interface



The screenshot shows a web application window titled "ADD CONTACT". The form contains the following fields and values:

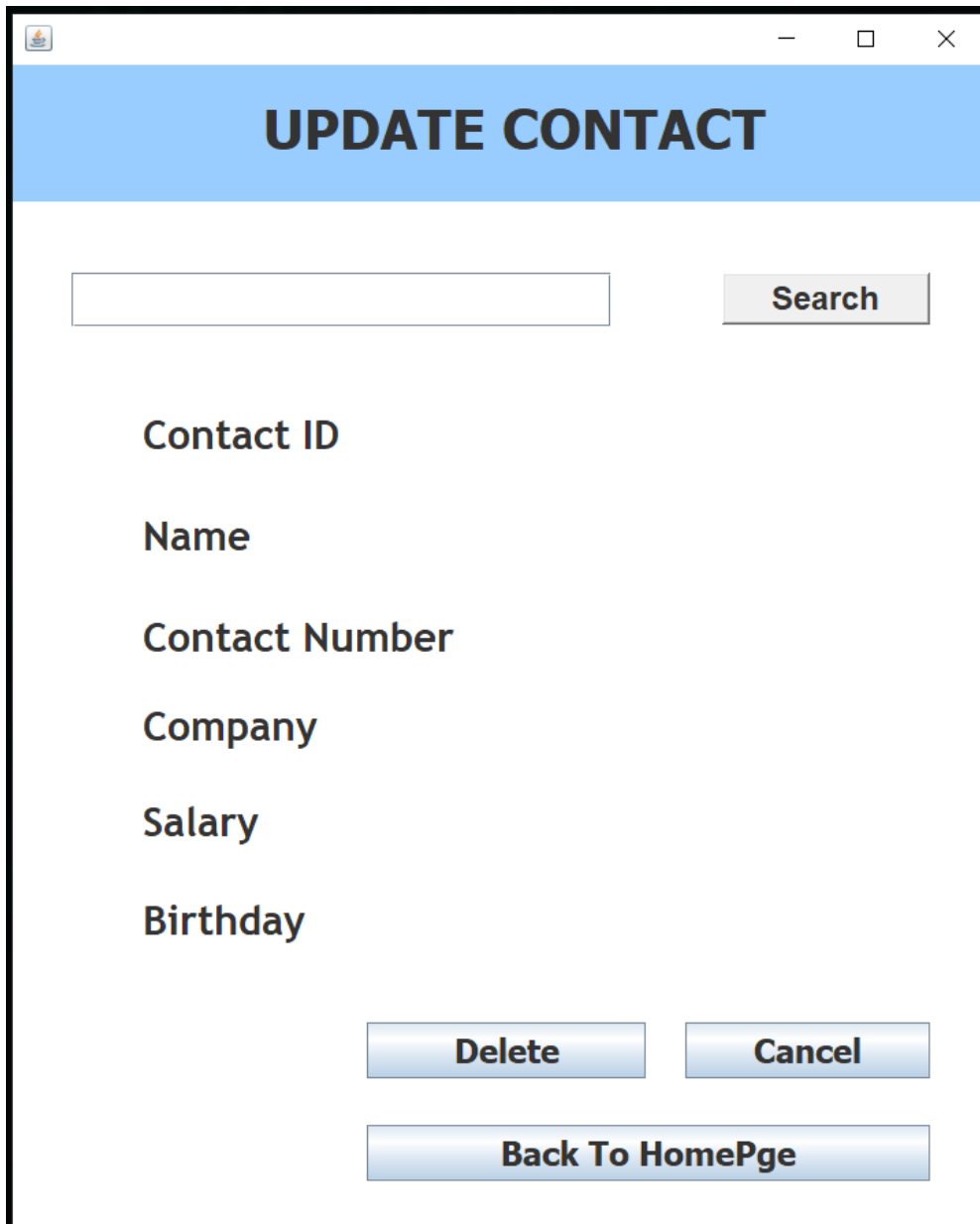
Field	Value
Contact ID	B0007
Name	Tharuka
Contact Number	0703859855
Company	Calcey
Salary	175000
Birthday	2001-02-04

At the bottom of the form are three buttons: "ADD Contact", "Cancel", and "Back To HomePge". A success message dialog box is overlaid on the form, displaying the text "Success" and "Contact Number Saved successfully..." with an "OK" button.

Figure 3 – Add New Customer successfully

02. UPDATE Contact

User can update previously added Contact Details in this interface (Figure 4). First, the user needs to enter the Contact Name or Phone Number in text box. After user enter Contact Name or Phone Number, All details should be display about Contacts Details. User can update Contact details by click Update button and the rest of the process is as before.



UPDATE CONTACT

Search

Contact ID

Name

Contact Number

Company

Salary

Birthday

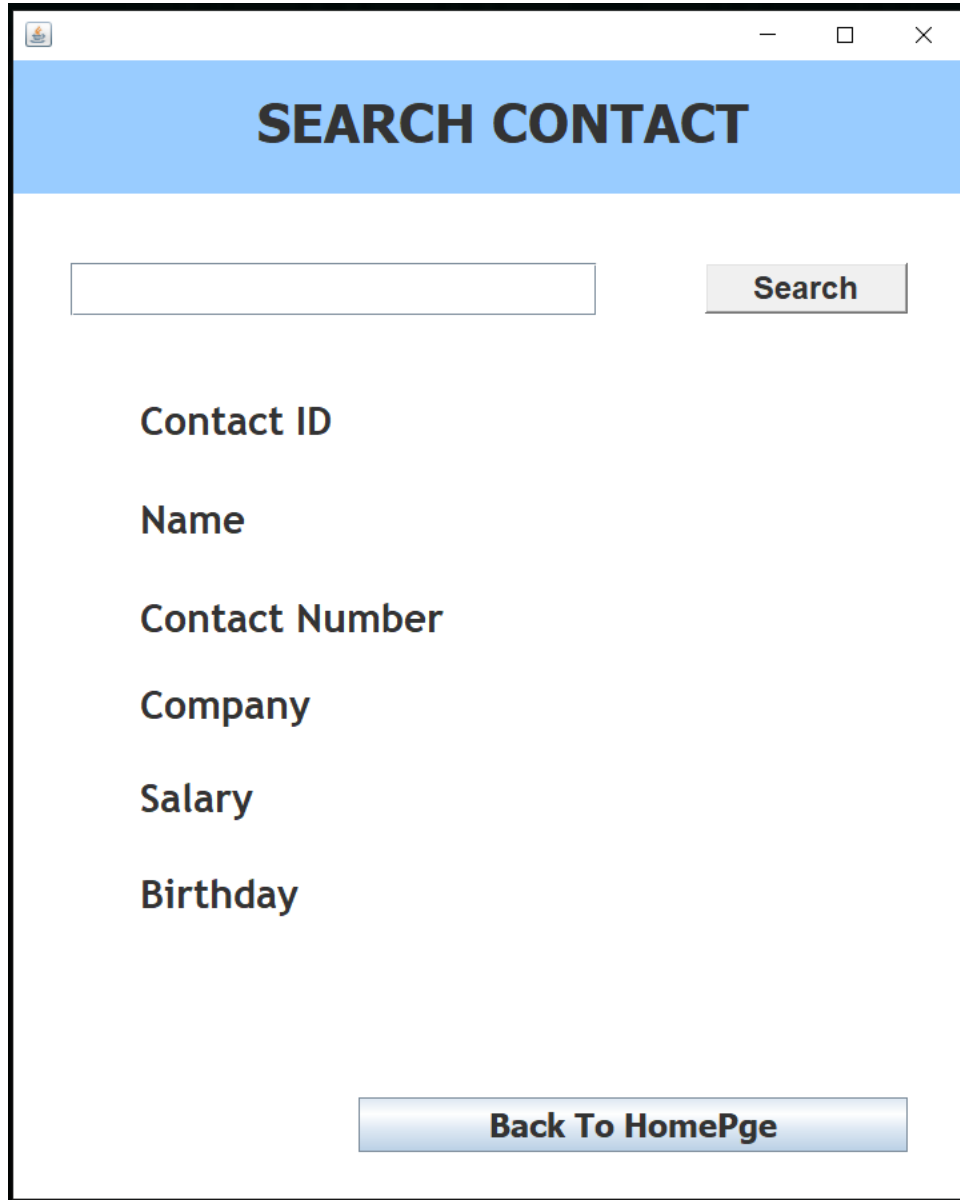
Delete **Cancel**

Back To HomePge

Figure 4 – Update Contact Interface

03. SEARCH Contacts

User can search previously added Contact Details in this interface (Figure 5). First, the user needs to enter the Contact Name or Phone Number in text box. Users can search Contact details by click the Search button and the rest of the process is as before.

The screenshot shows a web application window titled "SEARCH CONTACT". At the top, there is a light blue header bar with the title "SEARCH CONTACT" in bold black text. Below the header, there is a search form consisting of a white text input box on the left and a grey "Search" button on the right. Underneath the search form, there is a list of contact details: "Contact ID", "Name", "Contact Number", "Company", "Salary", and "Birthday". At the bottom of the interface, there is a blue button with white text that says "Back To HomePge".

SEARCH CONTACT

Search

Contact ID

Name

Contact Number

Company

Salary

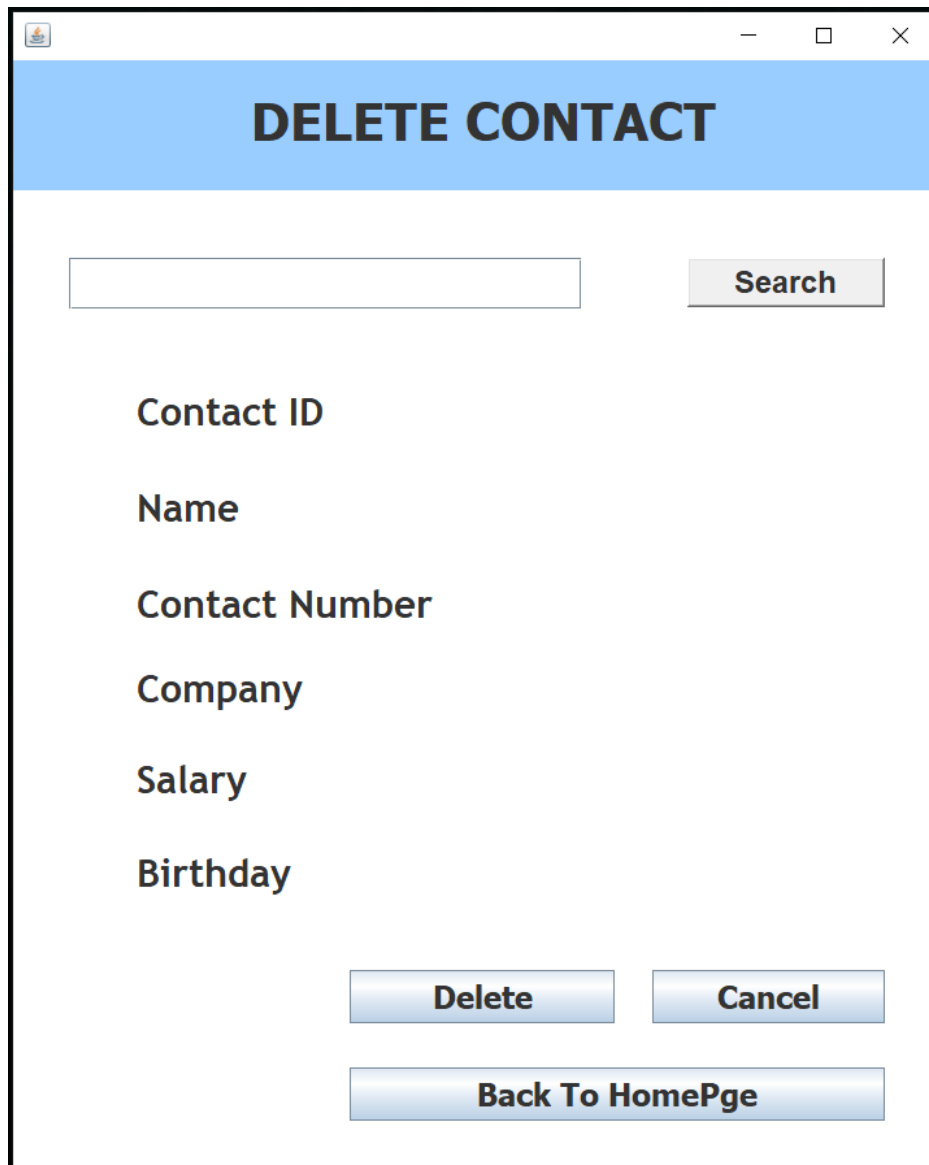
Birthday

Back To HomePge

Figure 5 – Search Contact Interface

04. DELETE Contacts

User can delete previously added Contact Details in this interface (Figure 6). First, the user needs to enter the Contact Name or Phone Number in text box. After system should display all Contact Details of that search contact. User can delete Contact details by click Delete button and the rest of the process is as before.

The image shows a web application window titled "DELETE CONTACT". It features a search bar with a "Search" button. Below the search bar, there is a list of contact details: Contact ID, Name, Contact Number, Company, Salary, and Birthday. At the bottom, there are three buttons: "Delete", "Cancel", and "Back To HomePge".

DELETE CONTACT	
<input type="text"/>	<input type="button" value="Search"/>
Contact ID	
Name	
Contact Number	
Company	
Salary	
Birthday	
<input type="button" value="Delete"/>	<input type="button" value="Cancel"/>
<input type="button" value="Back To HomePge"/>	

Figure 6 – Delete Contact Interface

05. VIEW Contacts

There are 3 button in View Contacts interface.

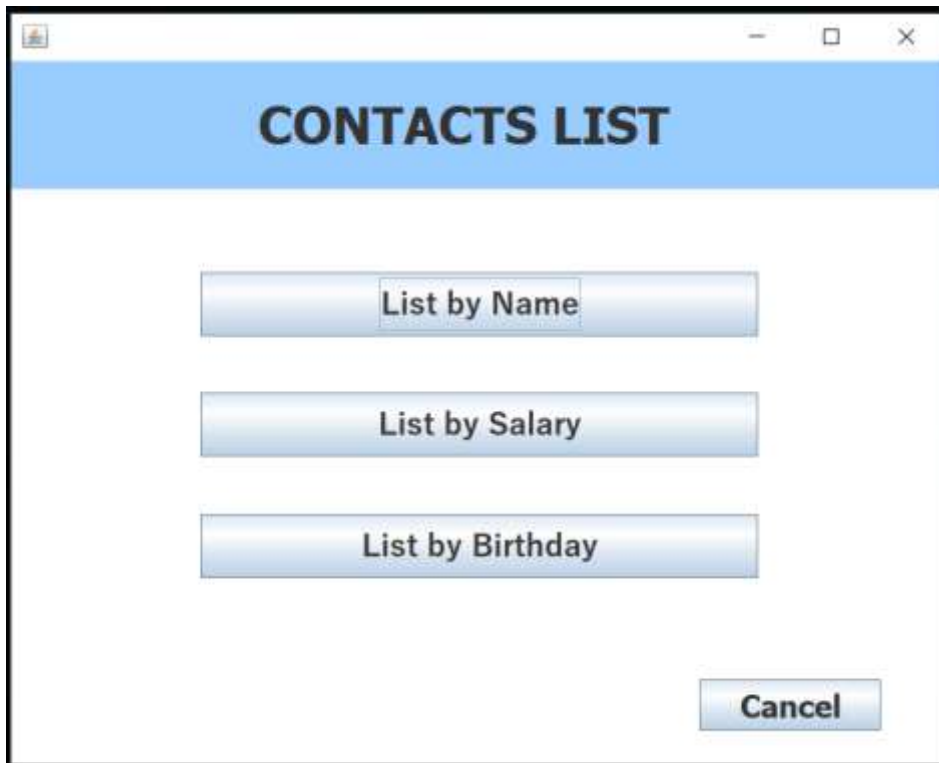


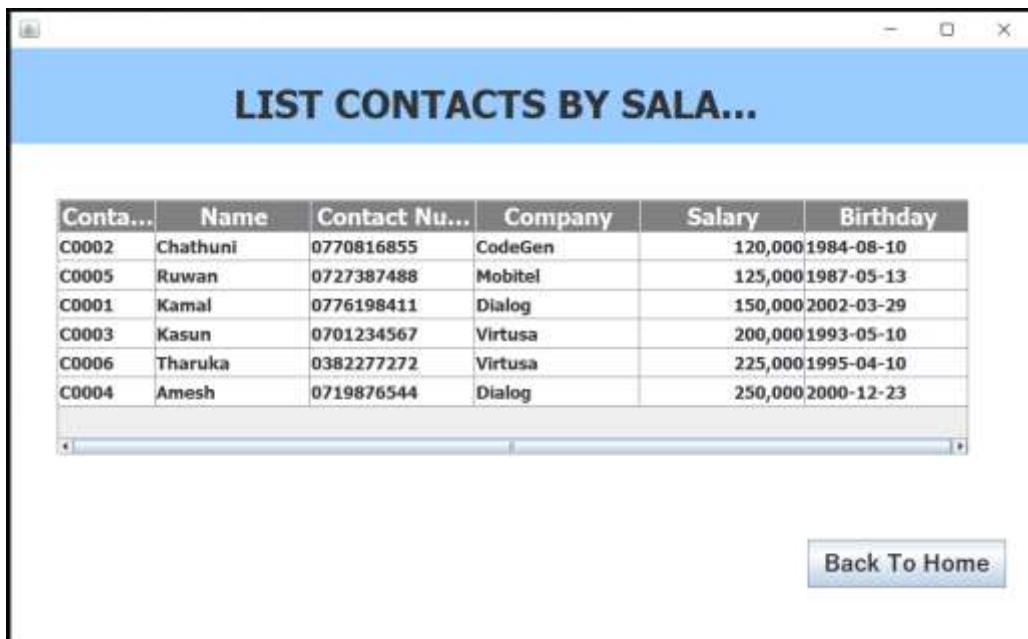
Figure 7 – View Contact List Interface

- **List by Name**



Figure 8 – View Contact List by Name Interface

- List by Salary



The screenshot shows a web application window titled "LIST CONTACTS BY SALA...". It contains a table with the following data:

Conta...	Name	Contact Nu...	Company	Salary	Birthday
C0002	Chathuni	0770816855	CodeGen	120,000	1984-08-10
C0005	Ruwan	0727387488	Mobitel	125,000	1987-05-13
C0001	Kamal	0776198411	Dialog	150,000	2002-03-29
C0003	Kasun	0701234567	Virtusa	200,000	1993-05-10
C0006	Tharuka	0382277272	Virtusa	225,000	1995-04-10
C0004	Amesh	0719876544	Dialog	250,000	2000-12-23

Below the table is a "Back To Home" button.

Figure 9 – View Contact List by Salary Interface