

JAVA GUI PhoneBook Application

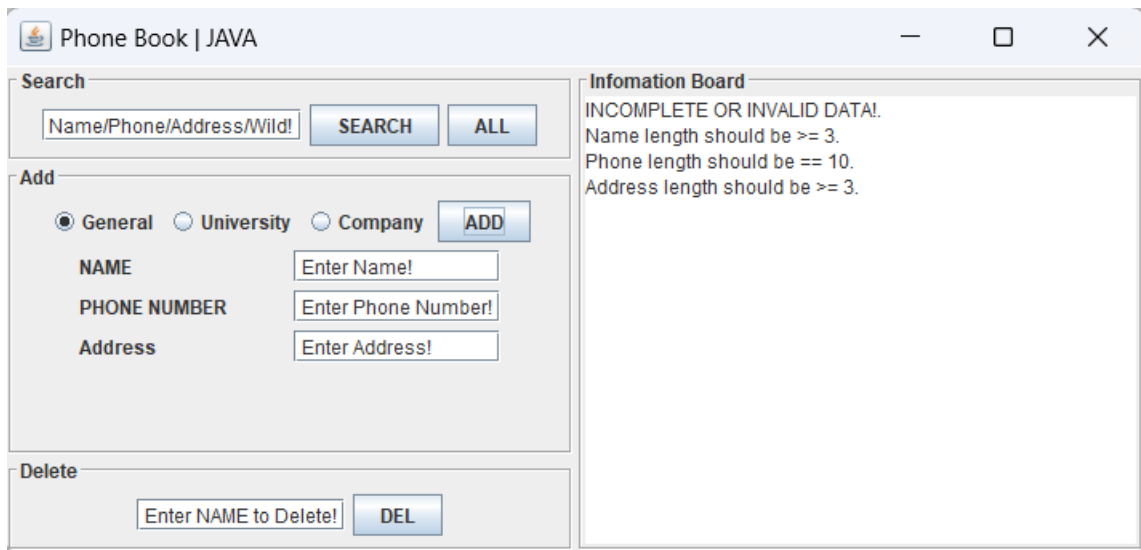
Java version used: 1.8.0_202 (v8)

Tested OS: Windows 11

Data Stored in: Phonebook.dat file

To Run: use “start.bat” File

Gui Appearance



START

To run this file, you need to run that start bat file and make sure you have Java installed and set up in the path variable properly.

List/Browse All Option

Press “ALL” Button we can get all the information stored in a “Phonebook.dat” file

On Start, it searches for Phonebook.dat file and imports all records stored previously.

```

C:\Users\ASUS\Downloads\tut1>start.bat

C:\Users\ASUS\Downloads\tut1>javac PhoneBook.java  && java PhoneBook
Picked up _JAVA_OPTIONS: -Xmx1024M
Picked up _JAVA_OPTIONS: -Xmx1024M
Found Data File! IMPORTED ALL!

```

And lists all the previously stored data.

The screenshot shows the 'Phone Book | JAVA' application window. It has a title bar with standard window controls. The main area is divided into three sections: 'Search', 'Add', and 'Delete/Export'. The 'Search' section has a text input field with the placeholder 'Name/Phone/Address/Wild!', a 'SEARCH' button, and an 'ALL' button. The 'Add' section has three radio buttons: 'General' (selected), 'University', and 'Company', followed by an 'ADD' button. Below these are three text input fields labeled 'NAME', 'PHONE NUMBER', and 'Address'. The 'Delete/Export' section has a text input field with the placeholder 'Enter NAME to Delete!', a 'DEL' button, and an 'EXPORT' button. On the right side, there is an 'Information Board' panel. It contains two blocks of text: 'All PhoneBook Data:' followed by 'name: Apple', 'phone: 1234567890', and 'address: India'; and another block with 'name: tester', 'phone: 1234567890', and 'address: USA'.

Search Option

Using the search option, we can make a wild guess, or we can write name, phone number or address to search any of the data present. We can even search on the basis of substrings of string.

This screenshot shows the same 'Phone Book | JAVA' application window, but with the search results displayed. In the 'Search' section, the text input field now contains '1234567890'. The 'Information Board' panel has been updated to show 'Search Completed:' followed by the details for the first entry: 'name: Apple', 'phone: 1234567890', and 'address: India'. The other entry details ('name: tester', 'phone: 1234567890', 'address: USA') remain visible below. The 'Add' and 'Delete/Export' sections are unchanged from the previous screenshot.

Add Option

In add option, we can write name, phone number, address, and we can choose different radio buttons of General University or a company type. And we can enter the values. All these are validated that. The length of name, phone number and address should be a valid left and should not be null. Before save to the data. It checks if data existed earlier or not.

The screenshot shows the 'Phone Book | JAVA' application window. It has a title bar with standard window controls. The main area is divided into three sections. The top section is 'Search', containing a text input field with the placeholder 'Name/Phone/Address/Wild!', a 'SEARCH' button, and an 'ALL' button. The middle section is 'Add', featuring three radio buttons labeled 'General' (selected), 'University', and 'Company', followed by an 'ADD' button. Below these are three text input fields: 'NAME' with the value 'Orange', 'PHONE NUMBER' with '1253647890', and 'Address' with 'Iran'. The bottom section is 'Delete/Export', with a text input field 'Enter NAME to Delete!' and two buttons, 'DEL' and 'EXPORT'. On the right side, there is an 'Information Board' with the text 'Update Completed.'

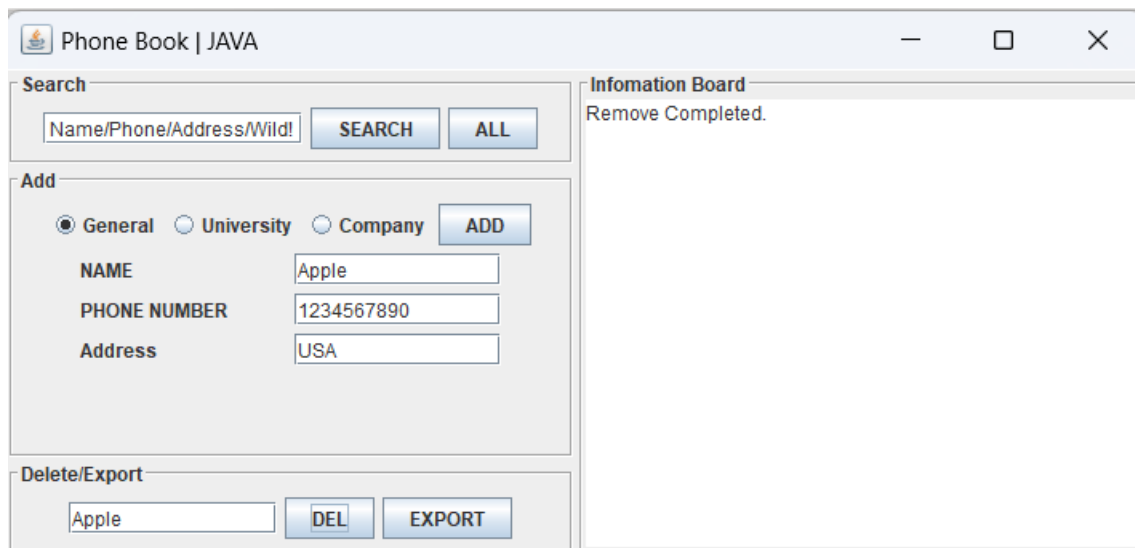
Modify Option

To modify a data weekend play. Write all the details remembering the name of the identity. Which we want to modify. Now Write a new phone number address or different credentials of that user name, and we can click add. This will modify the data.

This screenshot shows the same 'Phone Book | JAVA' application window. The 'Add' section now has the 'NAME' field set to 'Apple', the 'PHONE NUMBER' field set to '1234567890', and the 'Address' field set to 'USA'. The 'Information Board' on the right now displays the message 'Modified the already existed data for Apple.' The other sections, including 'Search' and 'Delete/Export', remain the same as in the previous screenshot.

Delete Option

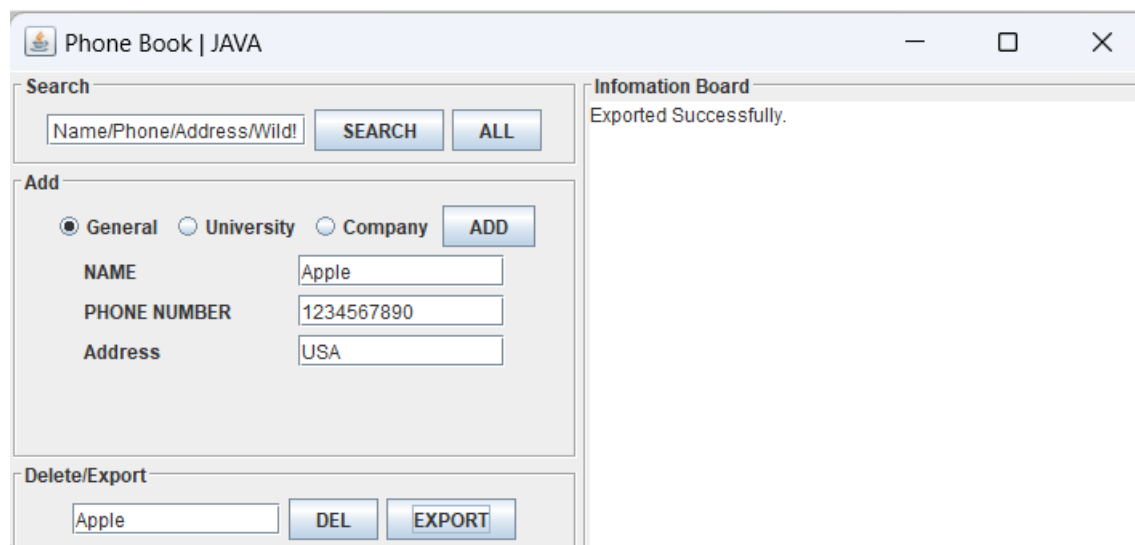
Enter the details of the user in which you want to delete, the name and press delete button. It will delete the object of that username.



The screenshot shows the 'Phone Book | JAVA' application window. It has a title bar with standard window controls. The main area is divided into three sections: 'Search', 'Add', and 'Delete/Export'. The 'Search' section has a text input field with the placeholder 'Name/Phone/Address/Wild!' and two buttons, 'SEARCH' and 'ALL'. The 'Add' section has three radio buttons: 'General' (selected), 'University', and 'Company', followed by an 'ADD' button. Below these are three text input fields labeled 'NAME' (containing 'Apple'), 'PHONE NUMBER' (containing '1234567890'), and 'Address' (containing 'USA'). The 'Delete/Export' section has a text input field with 'Apple' and two buttons, 'DEL' and 'EXPORT'. On the right side, there is an 'Information Board' with the text 'Remove Completed.'

EXPORT Option


Using this export button, you can export all the data which is saved till now. This data file will be read at the starting of the application, and everything will be written in this file.



This screenshot is identical to the previous one, showing the 'Phone Book | JAVA' application window. The 'Information Board' on the right now displays the message 'Exported Successfully.' instead of 'Remove Completed.'

Data File

Everything stored in my phonebook.dat file.

 PhoneBook.dat	4/6/2022 8:56 PM	DAT File	1 KB
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The data structure present inside this DAT file is a class named phone info containing name, phone number, address and specific. And specifically for university and Company we can have. Phone, unit and phone company named class getting extra fields like year major and company name.