

# Mini Project Object Oriented Programming

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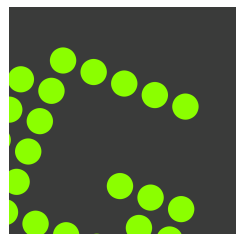
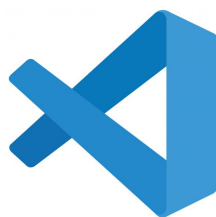
**PROJECT:** In a group of four members, produce a simple GUI application that incorporates the following elements:

1. Class inheritance and interface implementations in the application design
2. Exception handlings (the usage is seen in the UI whenever runtime error occurs)
3. File input and output (all data must be read/write from/to the text files created)

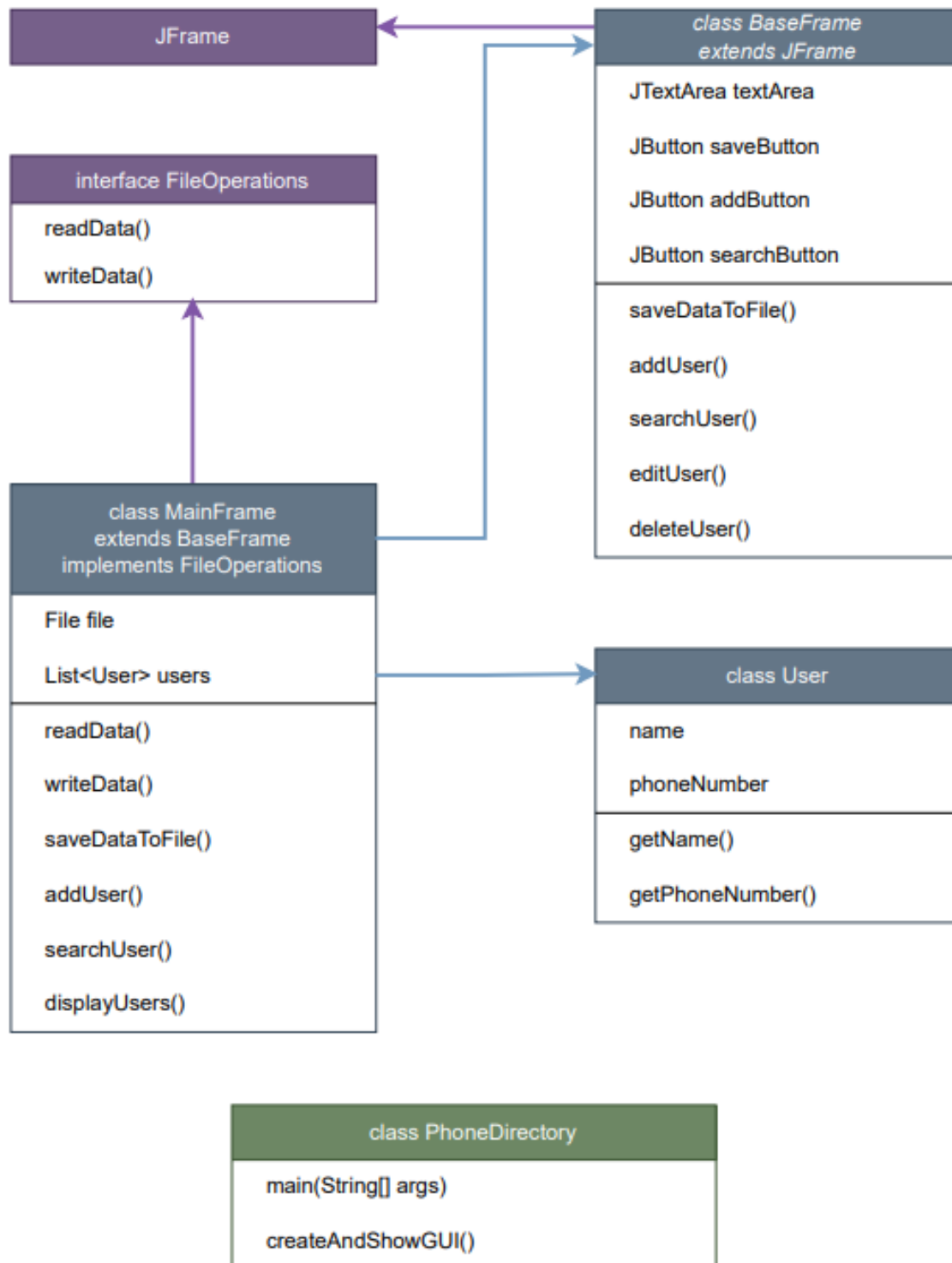
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## Tools used:

- **Github** (Share files with the group)
- **Visual Studio Code** (Write and manage files)
- **Javac** (Compile the program)
- **Java** (Launch the program)
- **Draw.io** (the UML Diagramm)
- **GreenShot** (the screenshots)
- **Whatsapp** (communication between members)

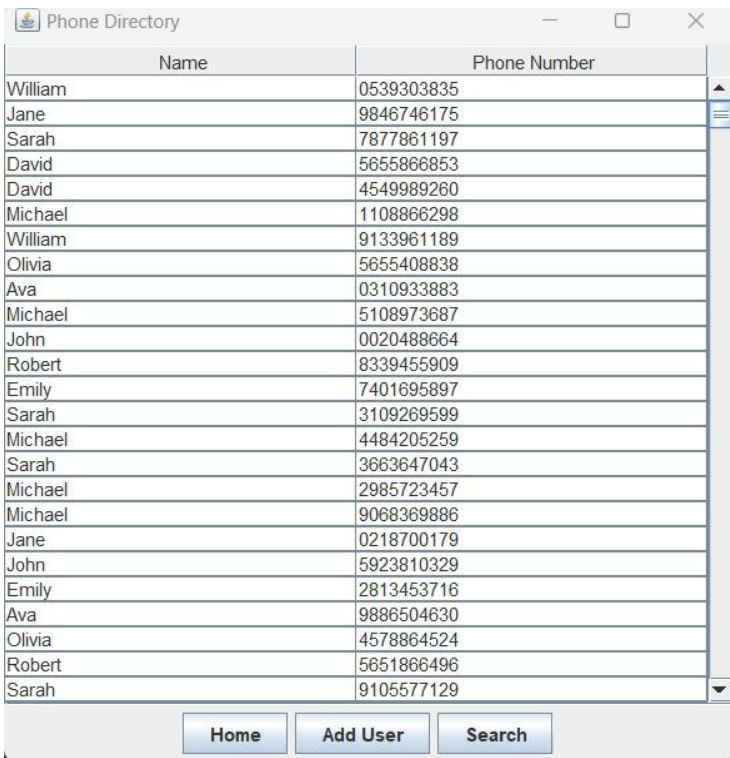


## UML Diagram:

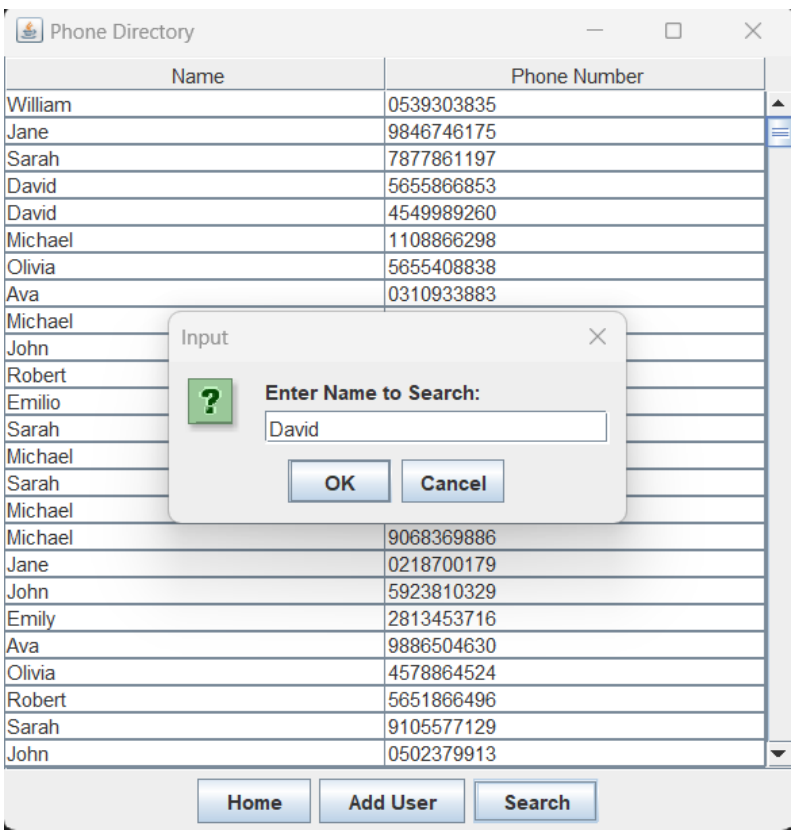


# Screenshots:

## Home Page



## Search For "David"



## Result

Phone Directory	
Name	Phone Number
David	5655866853
David	4549989260
David	6299581611
David	0575333969
David	1497820279
David	8903076614
David	5838365398
David	4047373575
David	1558671301
David	3314761317
David	5052160254
David	7830504140
David	5617532480
David	5676583503
David	0548362595
David	8167722211
David	3963694496
David	6570001131
David	0527194510
David	3124183298
David	7103343716
David	3243572784
David	5887086331
David	4488928679
David	5071788692

[Home](#) [Add User](#) [Search](#)

## Edit User

Phone Directory	
Name	Phone Number
William	0539303835
Jane	9846746175
Sarah	7877861197
David	5655866853
David	4549989260
Michael	1108866298
William	9133961189
Olivia	
Ava	
Michael	
John	
Robert	
Emily	
Sarah	
Michael	
Sarah	
Michael	
Michael	9068369886
Jane	0218700179
John	5923810329
Emily	2813453716
Ava	9886504630
Olivia	4578864524
Robert	5651866496
Sarah	9105577129

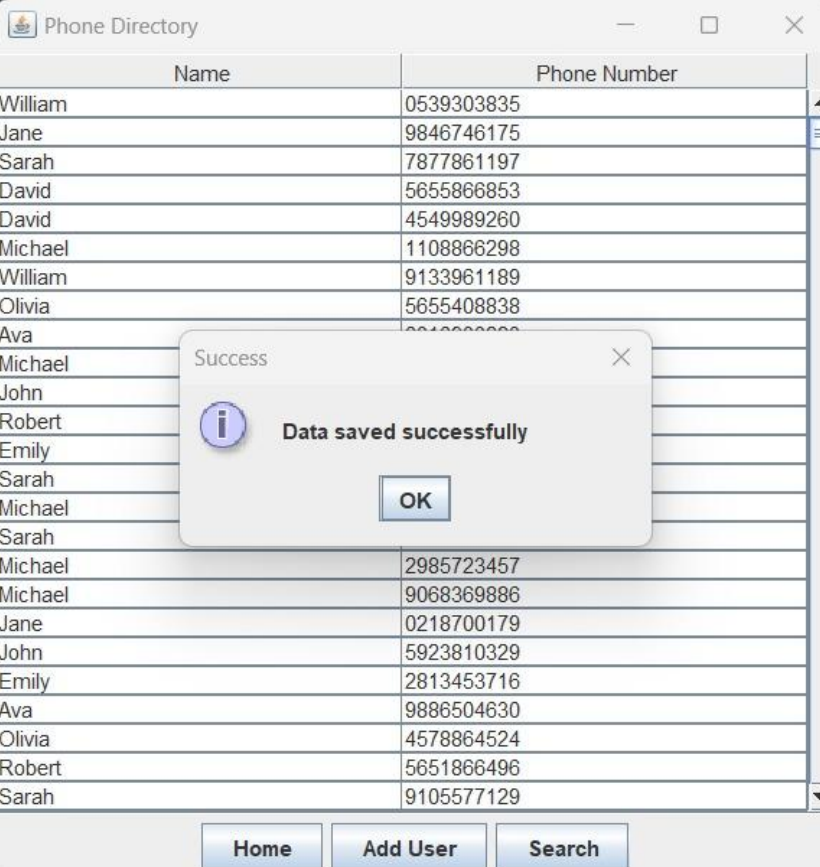
[Home](#) [Add User](#) [Search](#)

**Name:**

**Phone Number:**

[Save](#) [Delete](#)

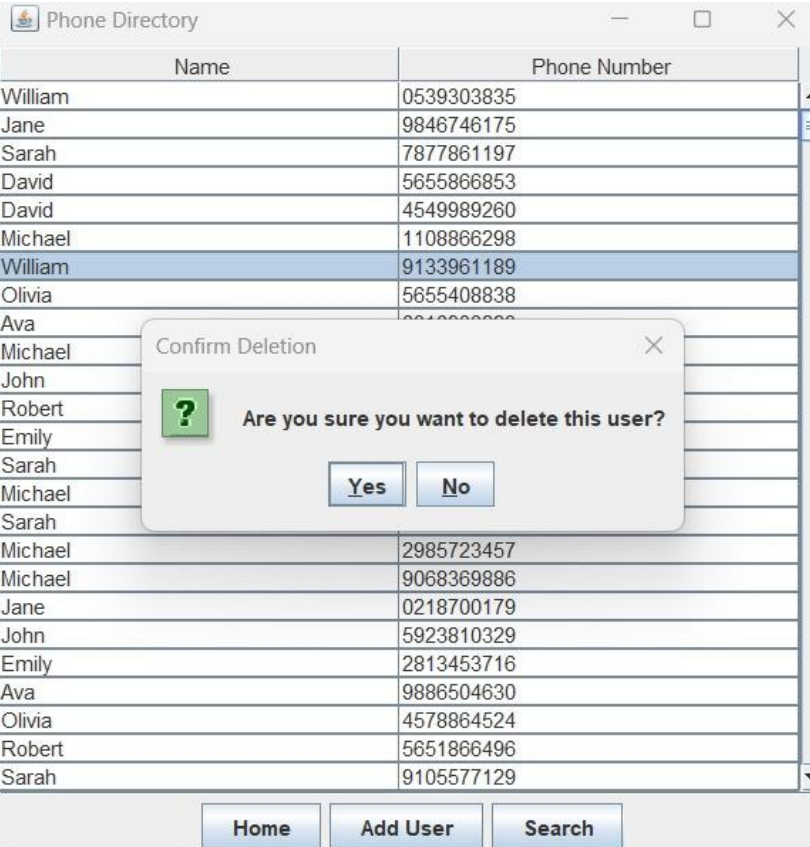
## After Saving



The screenshot shows the 'Phone Directory' application window. A modal dialog box titled 'Success' is centered on the screen, displaying an information icon and the text 'Data saved successfully'. Below the text is an 'OK' button. The background table lists names and phone numbers, and the bottom navigation bar contains 'Home', 'Add User', and 'Search' buttons.

Name	Phone Number
William	0539303835
Jane	9846746175
Sarah	7877861197
David	5655866853
David	4549989260
Michael	1108866298
William	9133961189
Olivia	5655408838
Ava	9886504630
Michael	2985723457
Michael	9068369886
Jane	0218700179
John	5923810329
Emily	2813453716
Ava	9886504630
Olivia	4578864524
Robert	5651866496
Sarah	9105577129

## Delete User



The screenshot shows the 'Phone Directory' application window. A modal dialog box titled 'Confirm Deletion' is centered on the screen, displaying a question mark icon and the text 'Are you sure you want to delete this user?'. Below the text are 'Yes' and 'No' buttons. The background table lists names and phone numbers, with the row for 'William' (9133961189) highlighted in blue. The bottom navigation bar contains 'Home', 'Add User', and 'Search' buttons.


Name	Phone Number
William	0539303835
Jane	9846746175
Sarah	7877861197
David	5655866853
David	4549989260
Michael	1108866298
William	9133961189
Olivia	5655408838
Ava	9886504630
Michael	2985723457
Michael	9068369886
Jane	0218700179
John	5923810329
Emily	2813453716
Ava	9886504630
Olivia	4578864524
Robert	5651866496
Sarah	9105577129

## After Clicking “Yes”

Phone Directory

Name	Phone Number
William	0539303835
Jane	9846746175
Sarah	7877861197
David	5655866853
David	4549989260
Michael	1108866298
Olivia	5655408838
Ava	0310933883
Michael	5100370007
John	
Robert	
Emily	
Sarah	
Michael	
Sarah	
Michael	
Michael	9068369886
Jane	0218700179
John	5923810329
Emily	2813453716
Ava	9886504630
Olivia	4578864524
Robert	5651866496
Sarah	9105577129
John	0502379913

Success

 **User deleted successfully**

OK

Home

Add User

Search