JFrame

interface FileOperations

readData()

writeData()

class BaseFrame
extends JFrame

JTextArea textArea

JButton saveButton

JButton addButton

JButton searchButton

saveDataToFile()

addUser()

searchUser()

editUser()

deleteUser()

class MainFrame
extends BaseFrame
implements FileOperations

File file

List<User> users

readData()

writeData()

saveDataToFile()

addUser()

searchUser()

displayUsers()

class User

name

phoneNumber

getName()

getPhoneNumber()

class PhoneDirectory

main(String[] args)

createAndShowGUI()