

# Update Contact Module

## Secondary function

### START

```
GET phoneNumberToUpdate FROM txtUpdate AND TRIM

// Check if the phone number field is empty

IF phoneNumberToUpdate IS EMPTY THEN

    DISPLAY "Phone number field cannot be empty." MESSAGE

    RETURN

END IF

// Get the loggedInUserID

GET loggedInUserID FROM getLoggedInUserID()

// Search for the contact in the logged-in user's LinkedList

SET contactToUpdate TO
contacts.linearSearchNumber(phoneNumberToUpdate, loggedInUserID)

IF contactToUpdate IS NOT NULL THEN

    CLOSE current JFrame

    // If contact exists, open UpdateContacts JFrame and pass the necessary
arguments

    OPEN UpdateContact WITH contacts, contactToUpdate, loggedInUserID

END IF
```

### END

## Main function

### BEGIN

```
GET firstName FROM txtFirstName AND TRIM

GET lastName FROM txtLastName AND TRIM

GET phoneNumber FROM txtPhoneNumber AND TRIM

GET email FROM txtEmail AND TRIM
```

```
GET physicalAddress FROM txtPhysicalAddress AND TRIM
GET contactGroup FROM txtContactGroup AND TRIM
// Validate mandatory fields
IF NOT validateName(firstName, "First Name") THEN
    RETURN
END IF
IF NOT validatePhoneNumber(phoneNumber) THEN
    RETURN
END IF
// Validate optional fields only if they are not empty
IF lastName IS NOT EMPTY AND NOT validateName(lastName, "Last Name")
THEN
    RETURN
END IF
IF email IS NOT EMPTY AND NOT validateEmail(email) THEN
    RETURN
END IF
IF physicalAddress IS NOT EMPTY AND NOT
validatePhysicalAddress(physicalAddress) THEN
    RETURN
END IF
IF contactGroup IS NOT EMPTY AND NOT validateContactGroup(contactGroup)
THEN
    RETURN
END IF
// Find the contact to update in the linked list using phone number
SET contactToUpdate TO contact // Assuming `contact` is already fetched
// Update the contact details in the linked list
SET contactToUpdate.firstName TO firstName
```

```
SET contactToUpdate.lastName TO lastName
SET contactToUpdate.phoneNumber TO phoneNumber
SET contactToUpdate.email TO email
SET contactToUpdate.physicalAddress TO physicalAddress
SET contactToUpdate.contactGroup TO contactGroup
// Update the contact in the CSV file
CALL updateContactInCSV(contacts, contactToUpdate,
"src/storage/contact.csv")
DISPLAY "Contact successfully updated!" MESSAGE
END
```