

# Delete Contact Module

## Main function

### BEGIN

GET phoneNumberToDelete FROM txtUpdate AND TRIM

GET loggedInUserID FROM getLoggedInUserID()

// Step 1: Check if the phone number field is empty

IF phoneNumberToDelete IS EMPTY THEN

    DISPLAY "Phone number field cannot be empty." MESSAGE

    RETURN

END IF

// Step 2: Search for the contact in the linked list

SET contactToDelete TO contacts.linearSearchNumber(phoneNumberToDelete,  
loggedInUserID)

// Step 3: Remove the contact from the linked list

SET isDeleted TO contacts.deleteContact(contactToDelete.getPhoneNumber(),  
loggedInUserID)

IF isDeleted THEN

    // Step 4: Call the existing updateContactInCSV method to rewrite the CSV file

    CALL updateContactInCSV(contacts, null, "src/storage/contact.csv")

    DISPLAY "Contact successfully deleted!" MESSAGE

    CLEAR TextArea

ELSE

    DISPLAY "Failed to delete the contact." MESSAGE

END IF

### END

**deleteContact(phoneNumber, userID)**

**START**

IF head IS NULL THEN

    RETURN false // The list is empty, nothing to delete

END IF

// Special case: deleting the head (first contact)

IF head.contact.getPhoneNumber() EQUALS phoneNumber AND  
head.contact.getUserID() EQUALS userID THEN

    SET head TO head.next

    DECREMENT length

    RETURN true

END IF

// Traverse the list to find and delete the target contact

SET current TO head

SET prev TO NULL

WHILE current IS NOT NULL

    IF current.contact.getPhoneNumber() EQUALS phoneNumber AND  
    current.contact.getUserID() EQUALS userID THEN

        // Found the contact to delete

        SET prev.next TO current.next // Remove the node

        DECREMENT length

        RETURN true

    END IF

    SET prev TO current

    SET current TO current.next

END WHILE

// If contact was not found

RETURN false

**END**