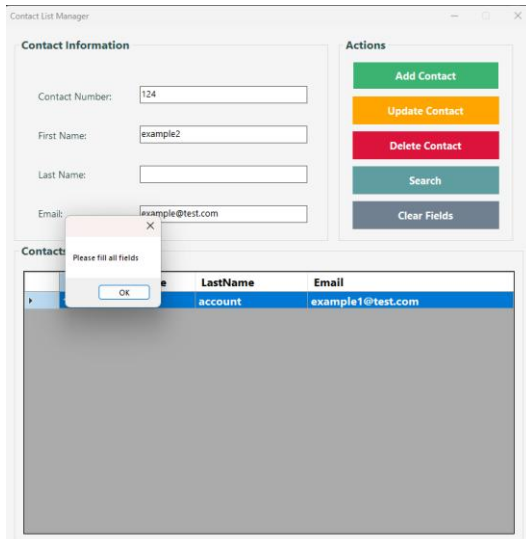


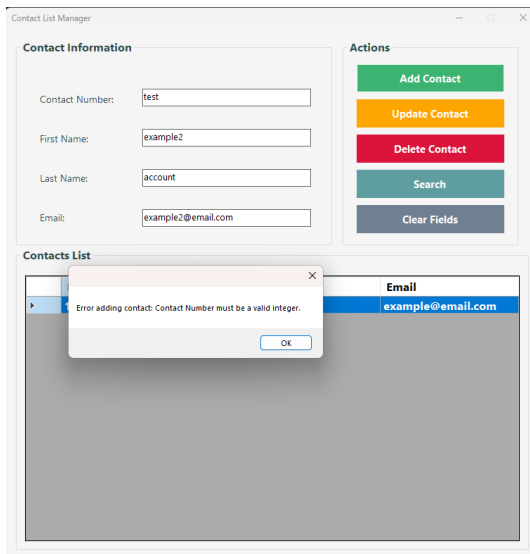
Contacts Multi-Tier Application Tests Document

We will test out the CRUD operations with forcible mistakes to show error handling and finally the ideal execution of these operations.

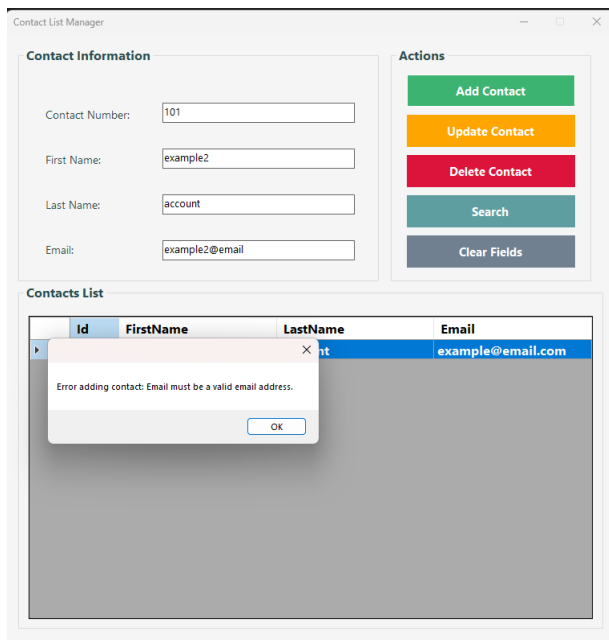
Creating a Contact with a missing field:



Creating a Contact with an unexpected type for the Contact Number:



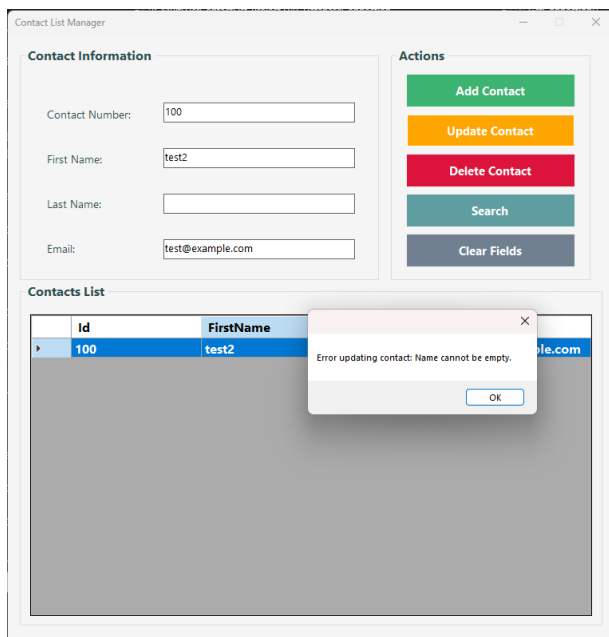
Creating a Contact with a wrong email format:



The screenshot shows the 'Contact List Manager' application. The 'Contact Information' section has the following fields: Contact Number (101), First Name (example2), Last Name (account), and Email (example2@email). The 'Actions' section contains buttons for Add Contact, Update Contact, Delete Contact, Search, and Clear Fields. The 'Contacts List' table shows a single contact with Id 101, First Name example2, Last Name account, and Email example2@email.com. An error dialog box is displayed over the table, stating: 'Error adding contact: Email must be a valid email address.' with an OK button.

Id	FirstName	LastName	Email
101	example2	account	example2@email.com

Updating with any of the previous errors:



The screenshot shows the 'Contact List Manager' application. The 'Contact Information' section has the following fields: Contact Number (100), First Name (test2), Last Name (empty), and Email (test@example.com). The 'Actions' section contains buttons for Add Contact, Update Contact, Delete Contact, Search, and Clear Fields. The 'Contacts List' table shows a single contact with Id 100, First Name test2, Last Name empty, and Email test@example.com. An error dialog box is displayed over the table, stating: 'Error updating contact: Name cannot be empty.' with an OK button.

Id	FirstName	LastName	Email
100	test2		test@example.com

Deleting a non-existent Contact Id:

Contact List Manager

Contact Information

Contact Number:

First Name:

Last Name:

Email:

Actions

Add Contact

Update Contact

Delete Contact

Search

Clear Fields

Contacts List

	Id	FirstName	LastName	Email
▶	100	test	example	test@example.com

Please select a contact to delete

OK

Searching for a non-existent Contact Id:

Contact List Manager

Contact Information

Contact Number:

First Name:

Last Name:

Email:

Actions

Add Contact

Update Contact

Delete Contact

Search

Clear Fields

Contacts List

	Id	FirstName	LastName	Email
▶	100	test	account	test@example.com
	101	test2	account	test2@example.co...

Creating a Contact:

Contact List Manager

Contact Information

Contact Number:

First Name:

Last Name:

Email:

Actions

Add Contact

Update Contact

Delete Contact

Search

Clear Fields

Contacts List

	Id	FirstName	LastName	Email
▶	1001	test	account	test@email.com

Updating a Contact:

Contact List Manager

Contact Information

Contact Number:

First Name:

Last Name:

Email:

Actions

Add Contact

Update Contact

Delete Contact

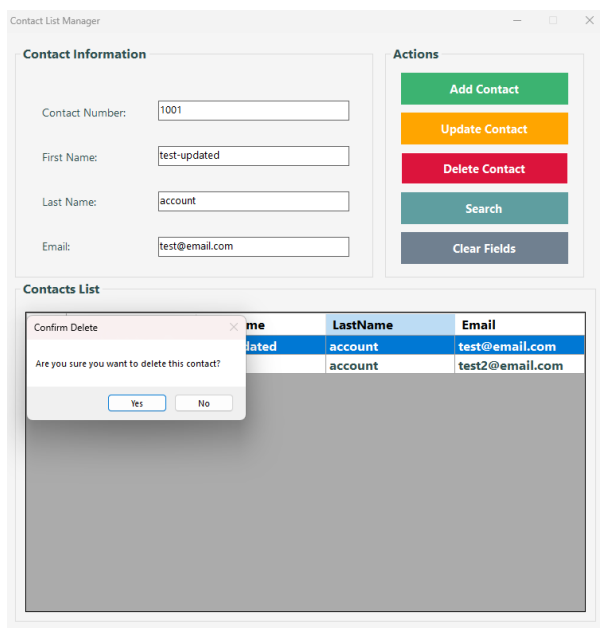
Search

Clear Fields

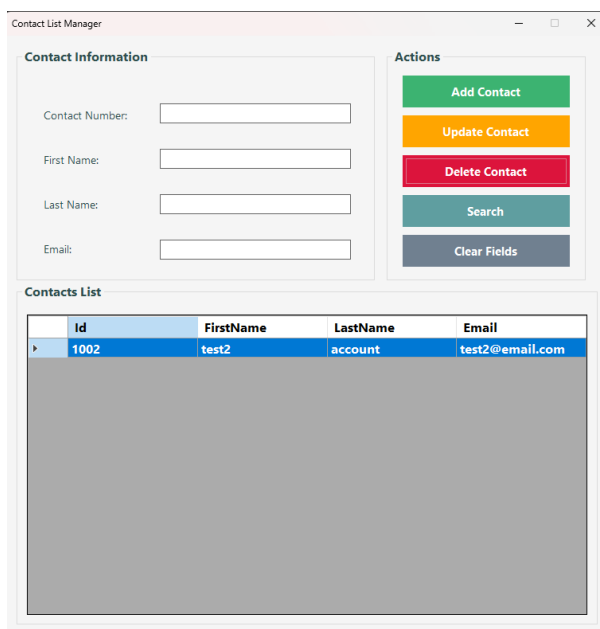
Contacts List

	Id	FirstName	LastName	Email
▶	1001	test-updated	account	test@email.com
	1002	test2	account	test2@email.com

Deleting a Contact Part 1:



Deleting a Contact Part 2:



Reading Contacts (Before Search):

Contact List Manager

Contact Information

Contact Number:

First Name:

Last Name:

Email:

Actions

Add Contact

Update Contact

Delete Contact

Search

Clear Fields

Contacts List

	Id	FirstName	LastName	Email
▶	1000	test	account	test3@email.com
	1002	test2	account	test2@email.com

Searching for a Contact:

Contact List Manager

Contact Information

Contact Number:

1000

First Name:

Last Name:

Email:

Actions

Add Contact

Update Contact

Delete Contact

Search

Clear Fields

Contacts List

	Id	FirstName	LastName	Email
▶	1000	test	account	test3@email.com