

## Phone Book Web Application

### Requirement:

Alex is having memory loss problem so always he is forgetting his friends contact details. Can you help Alex by developing a 'Phone Book' application where he can store his friends contact details.

Phone Book application should contain below functionalities

- 1) Create Contact
- 2) Display All Contacts
- 3) Edit and Update Contact Details
- 4) Delete Contact

### Technologies to be used:

- 1) Spring Boot, Spring Data
- 2) Embedded Database (H2), Embedded Server (Tomcat)
- 3) JSP and JSTL Core Tag Library

### Story Details

PhoneBook Web Application																					
<div style="border: 1px solid black; padding: 5px;"> <div style="text-align: center; border-bottom: 1px solid black; margin-bottom: 10px;"> <span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">1</span> <u>Contact Info</u> </div> <div> <div style="margin-bottom: 5px;">Name : <input style="width: 80%;" type="text"/></div> <div style="margin-bottom: 5px;">Email: <input style="width: 80%;" type="text"/> <span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">5</span></div> <div style="margin-bottom: 5px;">Phno : <input style="width: 80%;" type="text"/></div> <div style="margin-bottom: 5px;"> <span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">2</span> <input style="border: 1px solid black; padding: 2px 10px;" type="button" value="Submit"/> <span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">6</span> </div> <div style="margin-top: 5px;"> <u>View All Contacts</u> <span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">3</span> </div> </div> </div>	<div style="text-align: center; border-bottom: 1px solid black; margin-bottom: 10px;"> <span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">10</span> <u>+Add New Contact</u> <span style="margin: 0 20px;"><u>All Contacts</u></span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">8</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">9</span> </div> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>S.No</th> <th>Name</th> <th>Email</th> <th>Phno</th> <th>Action</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>John</td> <td>john@gmail.com</td> <td>9897878789</td> <td><u>Edit</u> <u>Delete</u></td> </tr> <tr> <td>2</td> <td>Smith</td> <td>smith@gmail.com</td> <td>8783973871</td> <td><u>Edit</u> <u>Delete</u></td> </tr> <tr> <td>3</td> <td>Charles</td> <td>charles@in.com</td> <td>8976557579</td> <td><u>Edit</u> <u>Delete</u></td> </tr> </tbody> </table> <div style="text-align: right; margin-top: 5px;"> <span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">4</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">7</span> </div>	S.No	Name	Email	Phno	Action	1	John	john@gmail.com	9897878789	<u>Edit</u> <u>Delete</u>	2	Smith	smith@gmail.com	8783973871	<u>Edit</u> <u>Delete</u>	3	Charles	charles@in.com	8976557579	<u>Edit</u> <u>Delete</u>
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### Database Table Structure

CONTACT_DETAILS	
COLUMN NAME	DATATYPE
CONTACT_ID (PK)	NUMBER(10)
CONTACT_NAME	VARCHAR2(50)
CONTACT_EMAIL	VARCHAR2(50)
CONTACT_NUMBER	NUMBER(10)

## Story Description

- **Note:** In the above diagram, circled numbers represents functionality. Circled numbers functionality described below.

1. When we hit application URL (Context-Path) in browser 'Contact Info' form should be displayed which is `contat.jsp`.

2. When 'Submit' button is clicked, form data should be stored into Database and success message should be displayed as 'Contact Saved Successfully' in 'Contact Info' form.

(The above Submit click is for new record)

3. When 'View All Contacts' hyperlink is clicked, all saved Contact records should be displayed in `viewContacts.jsp` table.

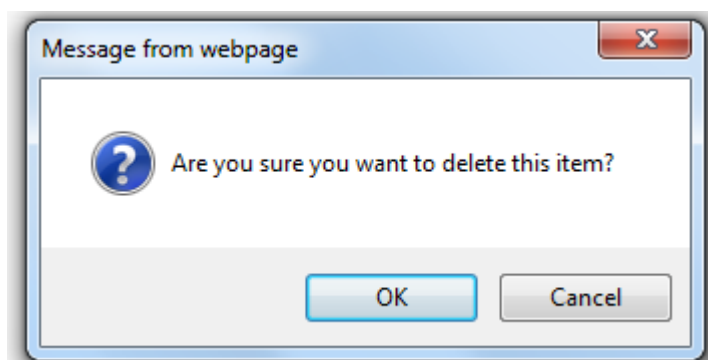
4. When 'Edit' icon is clicked, that particular contact details should be displayed in 'Contact Info' form in editable model.

5. Once contact is displayed in editable mode, we should be able to modify Contact Data.

6. When 'Submit' button is clicked Contact data should be updated in Database and success message should be displayed as 'Contact Updated Successfully' in 'Contact Info' form.

(The above submit click is for existing record).

7. When 'Delete' hyperlink is clicked 'Delete Confirmation Popup' should be displayed like below.



8. When 'Ok' button is clicked in above popup, Contact record should be deleted from Database and success message should be displayed as 'Contact Deleted Successfully' in same page.

9. After Contact deleted, latest Contact Records should be displayed in table (Deleted Records should not be displayed).

10. When '+Add New Contact' hyperlink is clicked 'Contact Info Form' should be displayed.

==== Happy Coding ====