

Project Title: Contact Management System

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Synopsis of the Project:

The **Contact Management System** is a web-based application developed using **JSP** (JavaServer Pages) and connected to a **Derby** database. The system provides functionalities to **add, view, edit, delete, and search contacts**. It features a simple and clean user interface with the ability to toggle between **light and dark modes**, improving the user experience.

The application is structured into several JSP pages, each responsible for specific operations, with backend connectivity managed through **JDBC** (Java Database Connectivity) using **Apache Derby** as the database.

The UI uses modern fonts (Google Fonts - **Poppins**) and color schemes.

Flexbox is used for responsiveness, ensuring that the layout adapts well to different screen sizes.

The **dark mode** feature enhances usability in various lighting environments.

CSS animations provide smooth transitions and an overall polished feel.

Search Functionality: Allows users to quickly locate specific contacts, saving time and improving efficiency.

CSS Animations: The application uses animations to enhance visual appeal and user engagement.

Consistent Styling: The use of modern design principles and styles contributes to a polished and cohesive user experience.

Codes:

index.html

addContact.jsp

addContactAction.jsp

viewContacts.jsp

editContact.jsp

contactList.jsp

updateContact.jsp

deleteContact.jsp

deleteContactAction.jsp

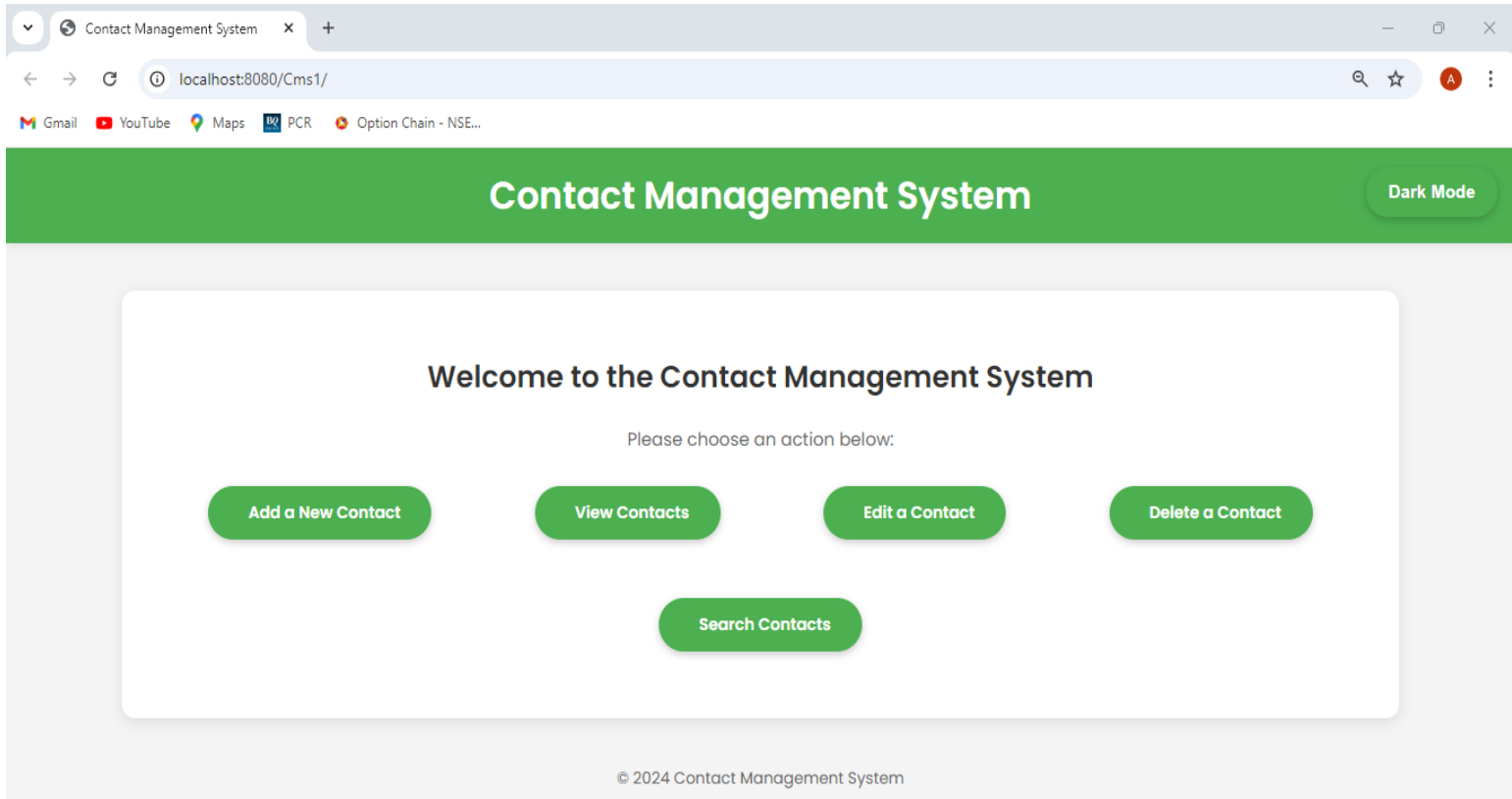
searchContacts.jsp

searchContactsAction.jsp

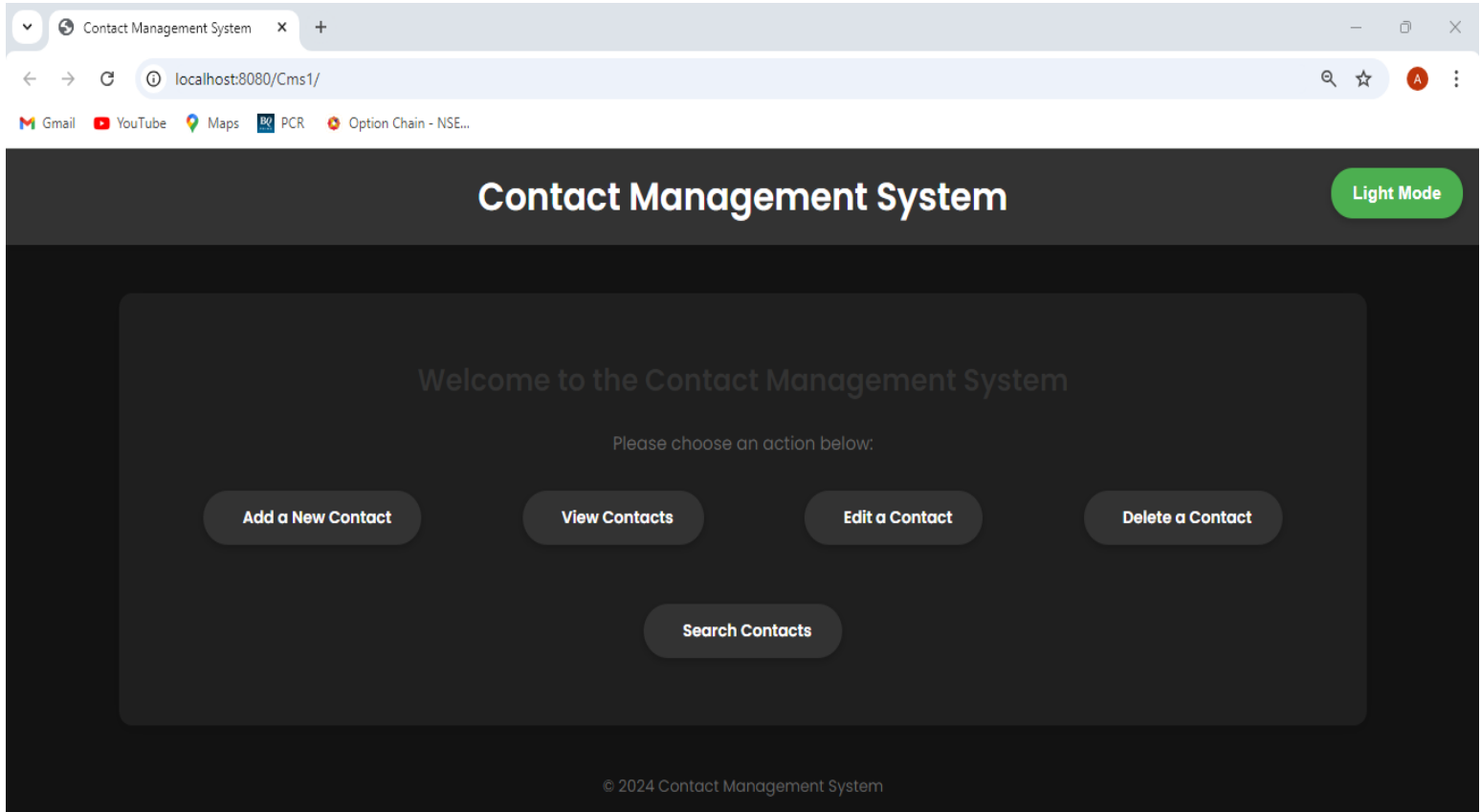
In Source Packages > com.cms.db > DBConnection.java

Screenshots of OUTPUT:

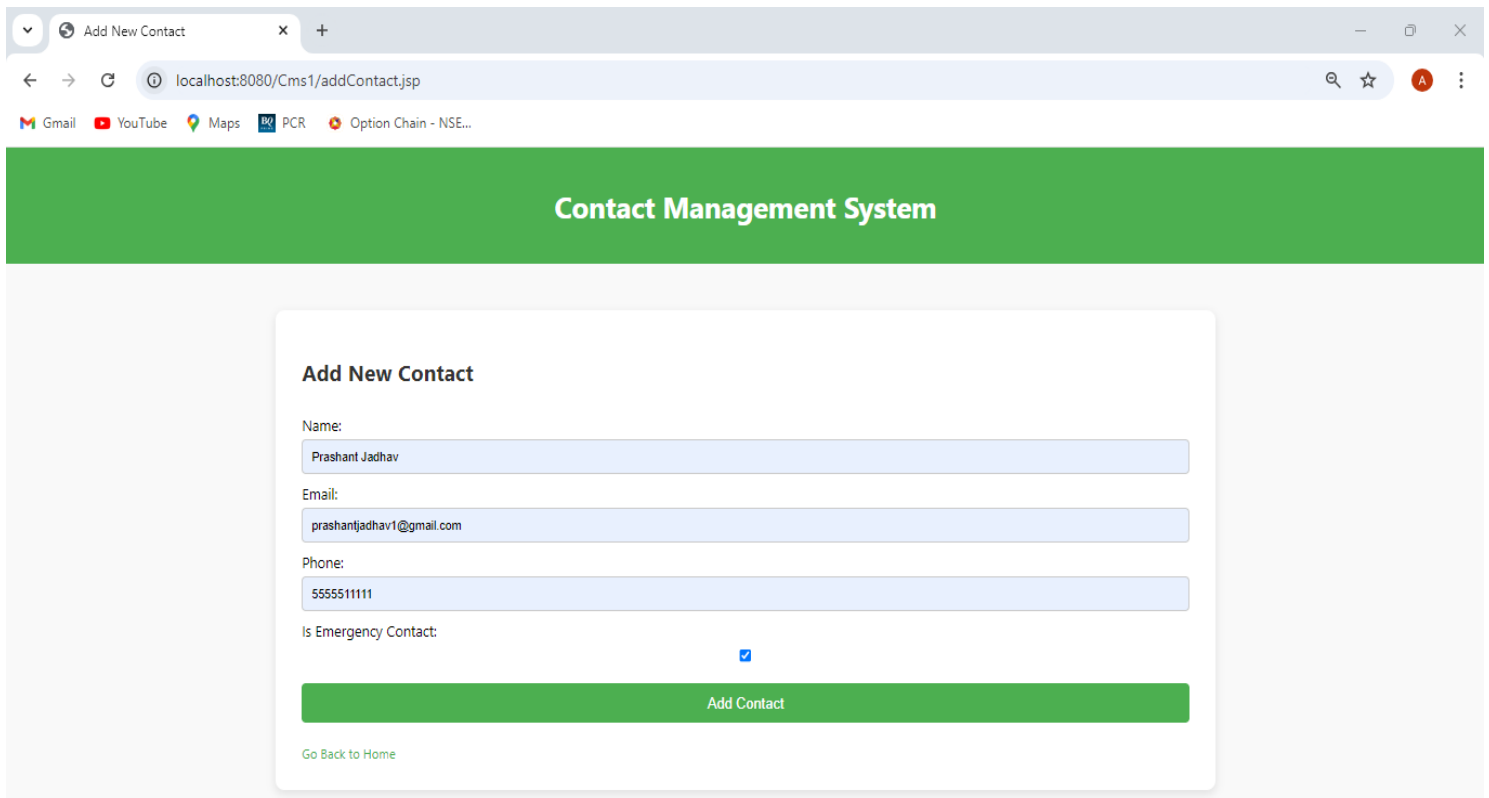
Home Page of My CMS –



Dark Mode Theme of the Home Page –



Add Contact Page -



The screenshot shows a web browser window with the title 'Add New Contact'. The address bar displays 'localhost:8080/Cms1/addContact.jsp'. The browser's taskbar at the bottom includes icons for Gmail, YouTube, Maps, PCR, and Option Chain - NSE... The main content area features a green header with the text 'Contact Management System'. Below this is a white form titled 'Add New Contact'. The form contains four input fields: 'Name' with the value 'Prashant Jadhav', 'Email' with 'prashantjadhav1@gmail.com', and 'Phone' with '5555511111'. Below these fields is a checkbox labeled 'Is Emergency Contact:' which is checked. At the bottom of the form is a green button labeled 'Add Contact' and a link labeled 'Go Back to Home'.

Name has a validation which is it cannot be null.

Email has a validation where it only accepts the proper email format.

Phone number has a validation where it only accepts digits, no alphabets or special characters and only 10 digits.

It also displays a “Contact Added Successfully” message after submitting the contact details properly.

View Contacts Page –

View Contacts

localhost:8080/Cms1/viewContacts.jsp

Gmail YouTube Maps PCR Option Chain - NSE...

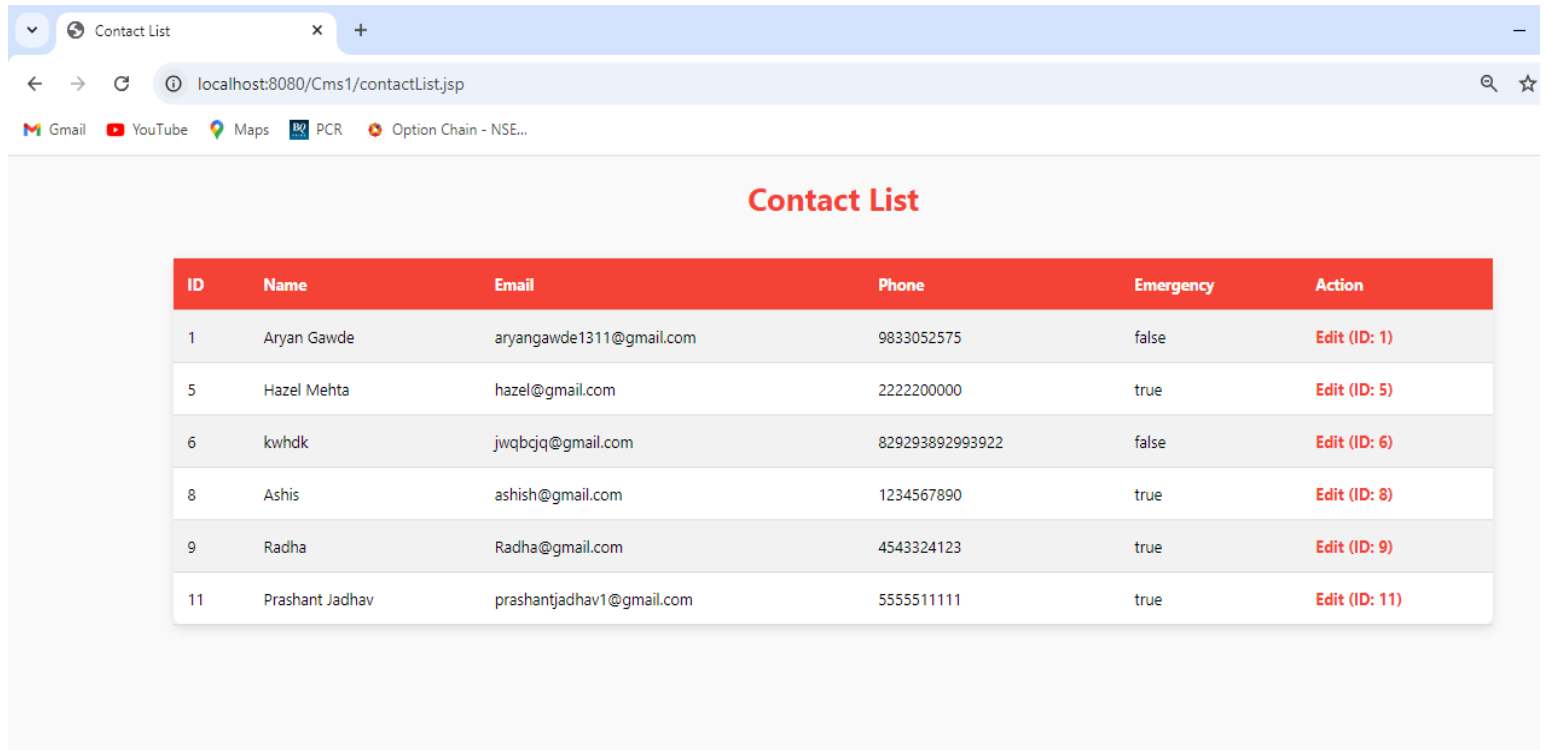
Contact Management System

View Contacts

| ID | Name | Email | Phone Number | Emergency Contact |
|----|-----------------|---------------------------|-----------------|-------------------|
| 1 | Aryan Gawde | aryangawde1311@gmail.com | 9833052575 | No |
| 5 | Hazel Mehta | hazel@gmail.com | 2222200000 | Yes |
| 6 | kwhdk | jwqbcjq@gmail.com | 829293892993922 | No |
| 8 | Ashis | ashish@gmail.com | 1234567890 | Yes |
| 9 | Radha | Radha@gmail.com | 4543324123 | Yes |
| 11 | Prashant Jadhav | prashantjadhav1@gmail.com | 5555511111 | Yes |

Go Back to Home

Edit Contacts Page –



| ID | Name | Email | Phone | Emergency | Action |
|----|-----------------|---------------------------|-----------------|-----------|-------------------------------|
| 1 | Aryan Gawde | aryangawde1311@gmail.com | 9833052575 | false | Edit (ID: 1) |
| 5 | Hazel Mehta | hazel@gmail.com | 2222200000 | true | Edit (ID: 5) |
| 6 | kwhdk | jwqbcjq@gmail.com | 829293892993922 | false | Edit (ID: 6) |
| 8 | Ashis | ashish@gmail.com | 1234567890 | true | Edit (ID: 8) |
| 9 | Radha | Radha@gmail.com | 4543324123 | true | Edit (ID: 9) |
| 11 | Prashant Jadhav | prashantjadhav1@gmail.com | 5555511111 | true | Edit (ID: 11) |

The Edit Contact Page takes us to the Contact List page wherein we can edit any contact.

Edit Contact

Name:

Prashant SIR

Email:

prashantjadhav100@gmail.com

Phone:

5555531212

Emergency Contact:

☒

Update Contact

It takes us to the above page as we click the option to edit a contact.

It also displays a “Contact Updated Successfully” message.

After updating the contact, it takes us again to the contact list to view the contacts.

Contact List

| ID | Name | Email | Phone | Emergency | Action |
|----|--------------|-----------------------------|-----------------|-----------|-------------------------------|
| 1 | Aryan Gawde | aryangawde1311@gmail.com | 9833052575 | false | Edit (ID: 1) |
| 5 | Hazel Mehta | hazel@gmail.com | 2222200000 | true | Edit (ID: 5) |
| 6 | kwhdk | jwqbcjq@gmail.com | 829293892993922 | false | Edit (ID: 6) |
| 8 | Ashis | ashish@gmail.com | 1234567890 | true | Edit (ID: 8) |
| 9 | Radha | Radha@gmail.com | 4543324123 | true | Edit (ID: 9) |
| 11 | Prashant SIR | prashantjadhav100@gmail.com | 5555531212 | true | Edit (ID: 11) |

As you can see in the above image I edited the contact which has ID “11” and it opens the contact list again to show the updated Contact details.

Delete Contact Page —

Browser window showing the "Delete Contact" page of a "Contact Management System". The page displays a table of contacts with columns: ID, Name, Email, Phone, and Action. Each contact has a "Delete" button in the Action column.

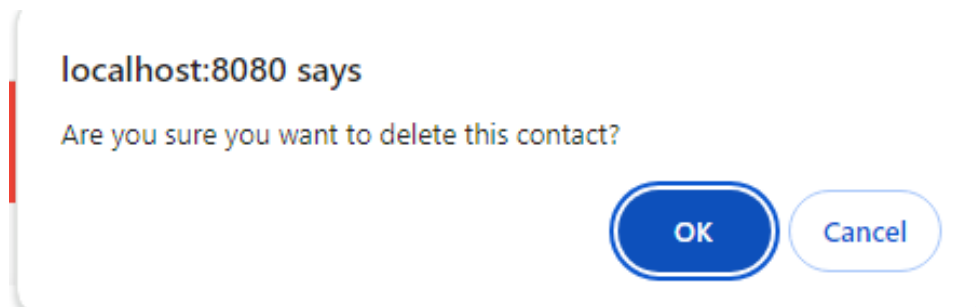
Contact Management System

Delete Contact

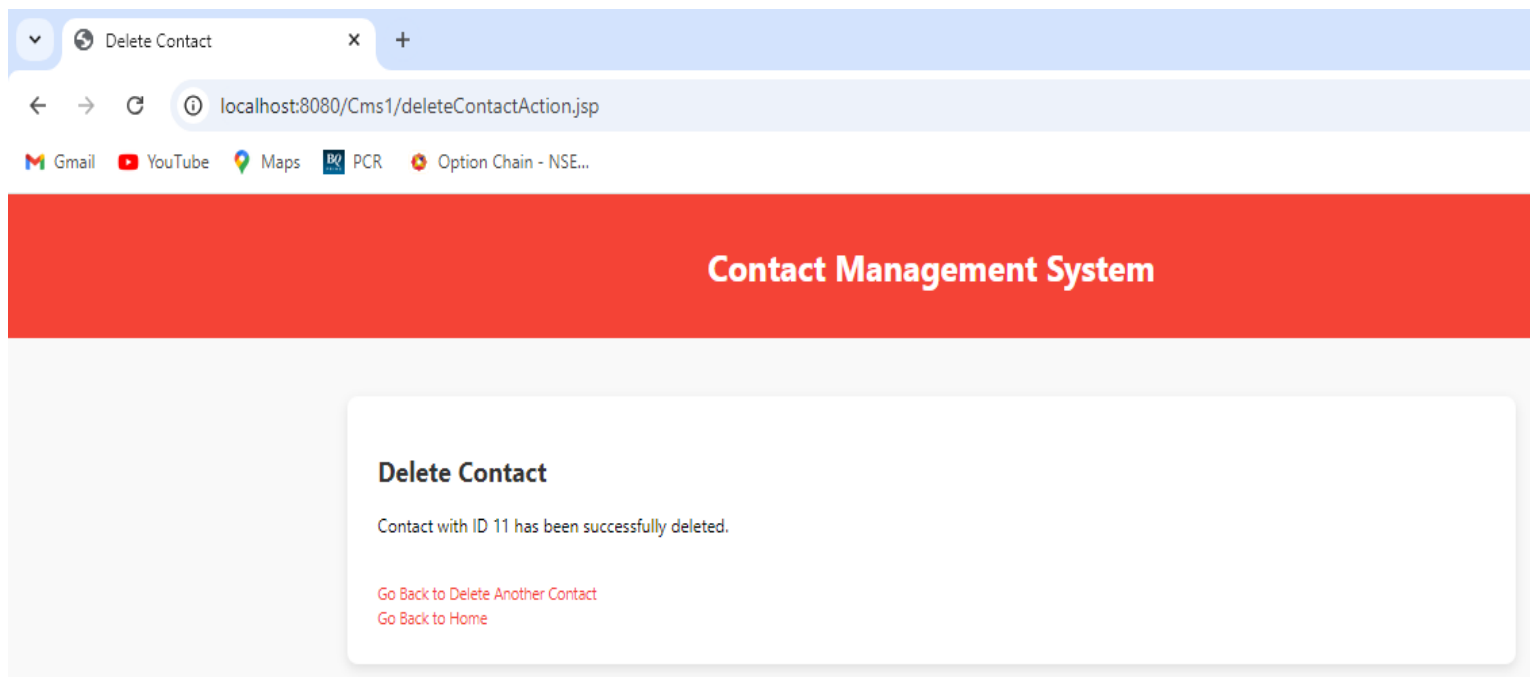
| ID | Name | Email | Phone | Action |
|----|--------------|-----------------------------|-----------------|------------------------|
| 1 | Aryan Gawde | aryangawde1311@gmail.com | 9833052575 | Delete |
| 5 | Hazel Mehta | hazel@gmail.com | 2222200000 | Delete |
| 6 | kwhdk | jwqbcjq@gmail.com | 829293892993922 | Delete |
| 8 | Ashis | ashish@gmail.com | 1234567890 | Delete |
| 9 | Radha | Radha@gmail.com | 4543324123 | Delete |
| 11 | Prashant SIR | prashantjadhav100@gmail.com | 5555531212 | Delete |

[Go Back to Home](#)

It displays the contact list and gives us the option to delete any contact.

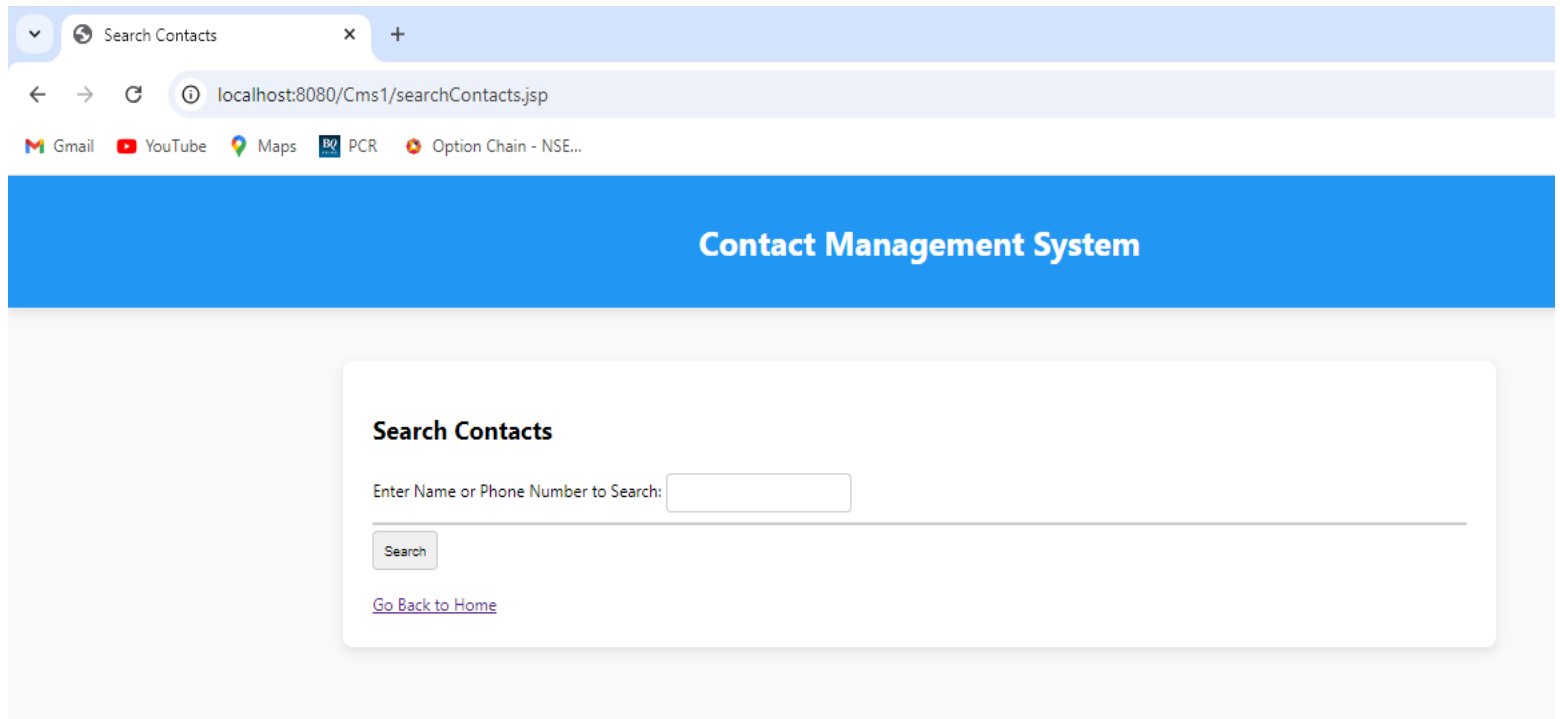


It also displays this popup to confirm that we want to delete this contact.



In the above image, I deleted the contact with ID 11 and it opens this page.

Search Contact Page –



The screenshot shows a web browser window with a single tab titled "Search Contacts". The address bar displays "localhost:8080/Cms1/searchContacts.jsp". Below the address bar, there are several icons for quick access: Gmail, YouTube, Maps, PCR, and Option Chain - NSE... The main content area has a blue header bar with the text "Contact Management System". Below this, there is a white card with the title "Search Contacts". Inside the card, there is a text input field with the placeholder text "Enter Name or Phone Number to Search:". Below the input field, there is a "Search" button. At the bottom of the card, there is a link that says "Go Back to Home".

Contact Management System

Search Contacts

Enter Name or Phone Number to Search:

[Go Back to Home](#)

The Search Contact gives us option to search a contact through its name or phone number.

Search Contacts

Enter Name or Phone Number to Search:

Aryan Gawde
9833052575

Ashis
1234567890

Search

[Go Back to Home](#)

It also has this “Real Time Suggestions” wherein we don’t have to type in the full name or the full number. It suggests the most matching contact with the input.

Search Results

localhost:8080/Cms1/searchContactsAction.jsp

Gmail YouTube Maps PCR Option Chain - NSE...

| Search Results | | | |
|----------------|-------------|--------------------------|------------|
| ID | Name | Email | Phone |
| 1 | Aryan Gawde | aryangawde1311@gmail.com | 9833052575 |

Once the button is clicked and the contact is found in the database, it displays this as its search results.

Database Connectivity –

NetBeans IDE 8.0.1

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

Search (Ctrl+F)

Projects Files Services

Databases

- MySQL Server at localhost:3306 [root] (disconnected)
- Java DB
- Drivers
- jdbc:derby://localhost:1527/ContactsDB [root on ROOT]
 - ROOT
 - Tables
 - CONTACTS
 - ID
 - NAME
 - EMAIL
 - PHONE
 - EMERGENCY
 - Indexes
 - Foreign Keys
 - Views
 - Procedures
 - Other schemas
 - jdbc:derby://localhost:1527/sample [app on APP]
 - Web Services
 - Servers
 - Apache Tomcat 8.0.27.0
 - Apache Tomcat 8.0.9.0

...jsp searchSuggestions.jsp updateContact.jsp viewContacts.jsp DBConnection.java SQL 1 [jdbc:derby://localhost:15...]

Connection: jdbc:derby://localhost:1527/ContactsDB [root on ROOT]

```
1 select * from ROOT.CONTACTS;  
2
```

select * from ROOT.CONTAC... X

Page Size: 20 | Total Rows: 5 | Page: 1 of 1 | Matching Rows:

| # | ID | NAME | EMAIL | PHONE | EMERGENCY |
|---|----|---------------|--------------------------|-----------------|-----------|
| 1 | | 1.Aryan Gawde | aryangawde1311@gmail.com | 9833052575 | false |
| 2 | | 5 Hazel Mehta | hazel@gmail.com | 2222200000 | true |
| 3 | | 6 kwhdk | jwqbcjq@gmail.com | 829293892993922 | false |
| 4 | | 8 Ashis | ashish@gmail.com | 1234567890 | true |
| 5 | | 9 Radha | Radha@gmail.com | 4543324123 | true |

Notifications Output X