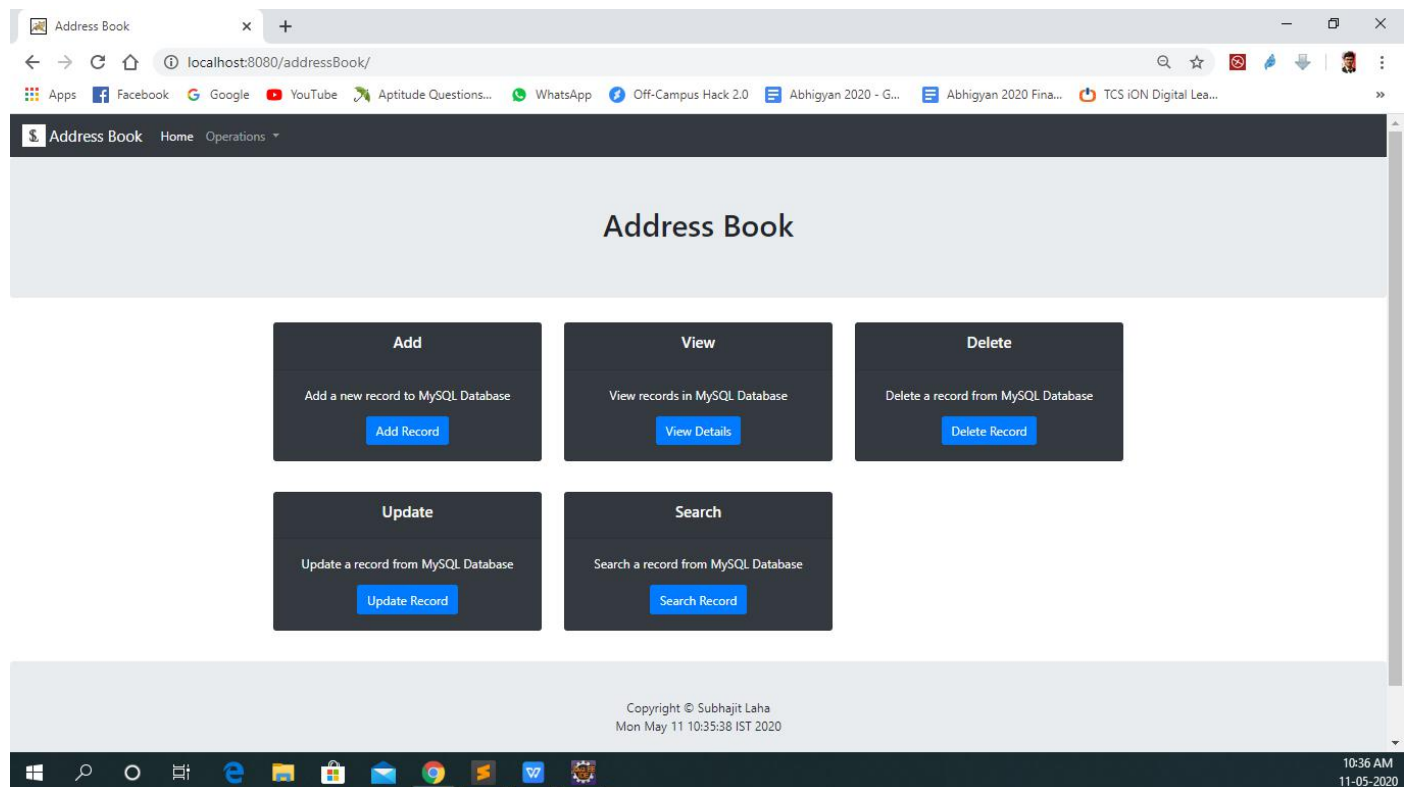


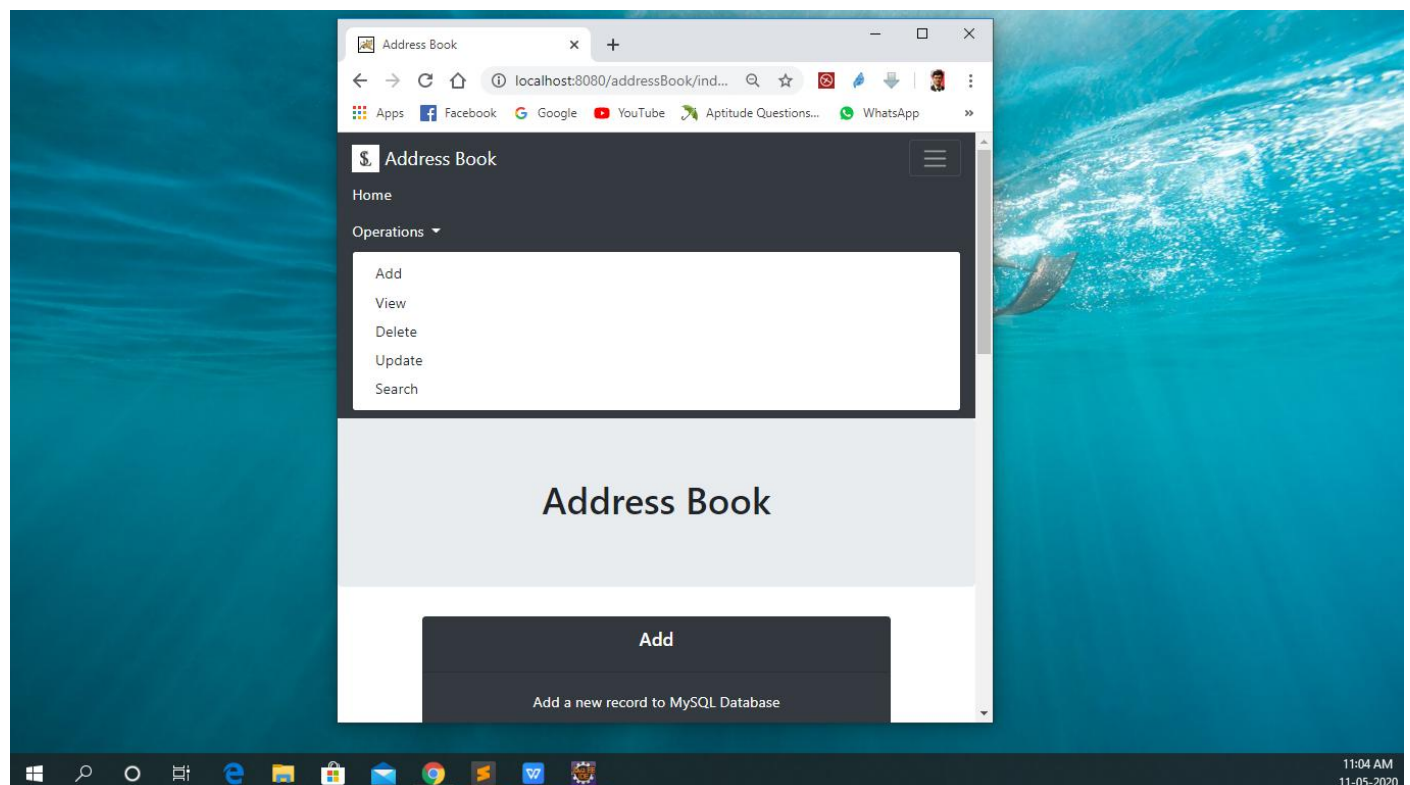
Address Book web Application using Tomcat 8.5 and JSP

Welcome Page of the Web App



The Page is build using bootstrap and HTML. It is a responsive site.

Responsive



Database Schema used

CREATE TABLE ADDRESSBOOK

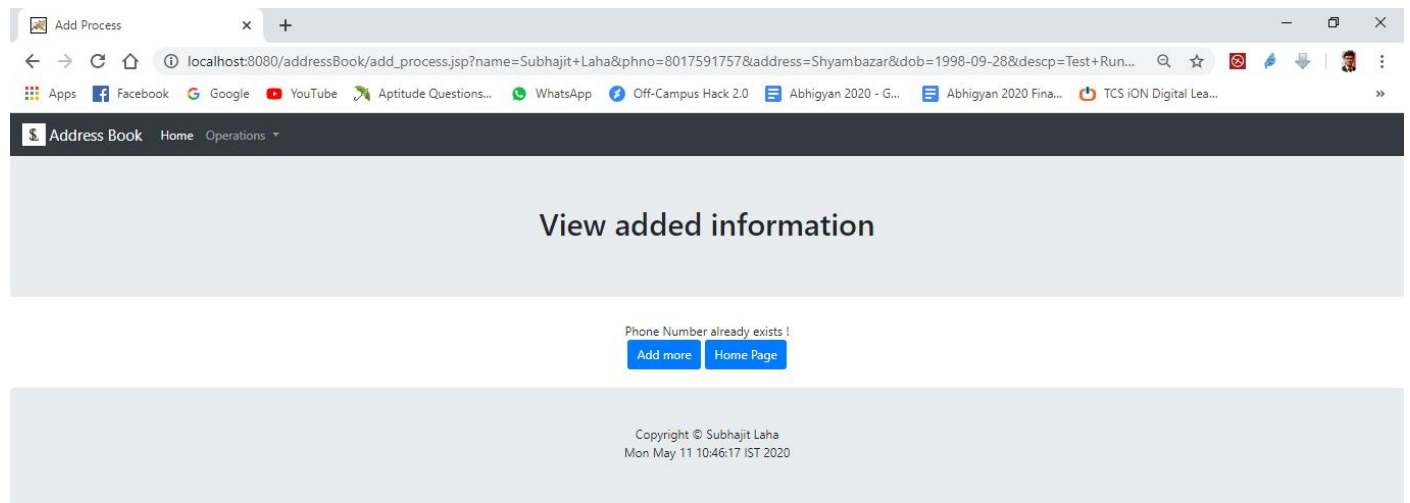
```
(
  name VARCHAR(55) NOT NULL,
  phno VARCHAR(10) NOT NULL,
  address VARCHAR(255),
  dob Date NOT NULL,
  gender VARCHAR(1) NOT NULL,
  details VARCHAR(255)
);
```

Note I have not set any primary key in the Database but Phone Number acts as primary key due to front end validation.

Adding records to MySQL Database:
After adding records the page look as follows

Name	phno	address	dob	gender	details
Subhajit Laha	8017591757	Shyambazar	1998-09-28	m	Test Run

If I want to add the any record with the same Phone Number it will not be inserted



View the Database

Create a Database using JSP

localhost:8080/addressBook/profile.jsp

Address Book Home Operations

View the Database

Name	phno	address	dob	gender	details
Debonita Laha	3698520147	Shyambazar	2001-03-29	f	none
Sinjon Nath	1020304569	New Barackpur	1998-04-10	m	Student
Amal Das	9863254170	Paris	1988-09-08	m	JAVA Test
Subhajit Laha	8017591757	Shyambazar	1998-09-28	m	Test Run

Copyright © Subhajit Laha
Mon May 11 10:49:46 IST 2020

10:49 AM
11-05-2020

Deleting a record database

localhost:8080/addressBook/delete.jsp

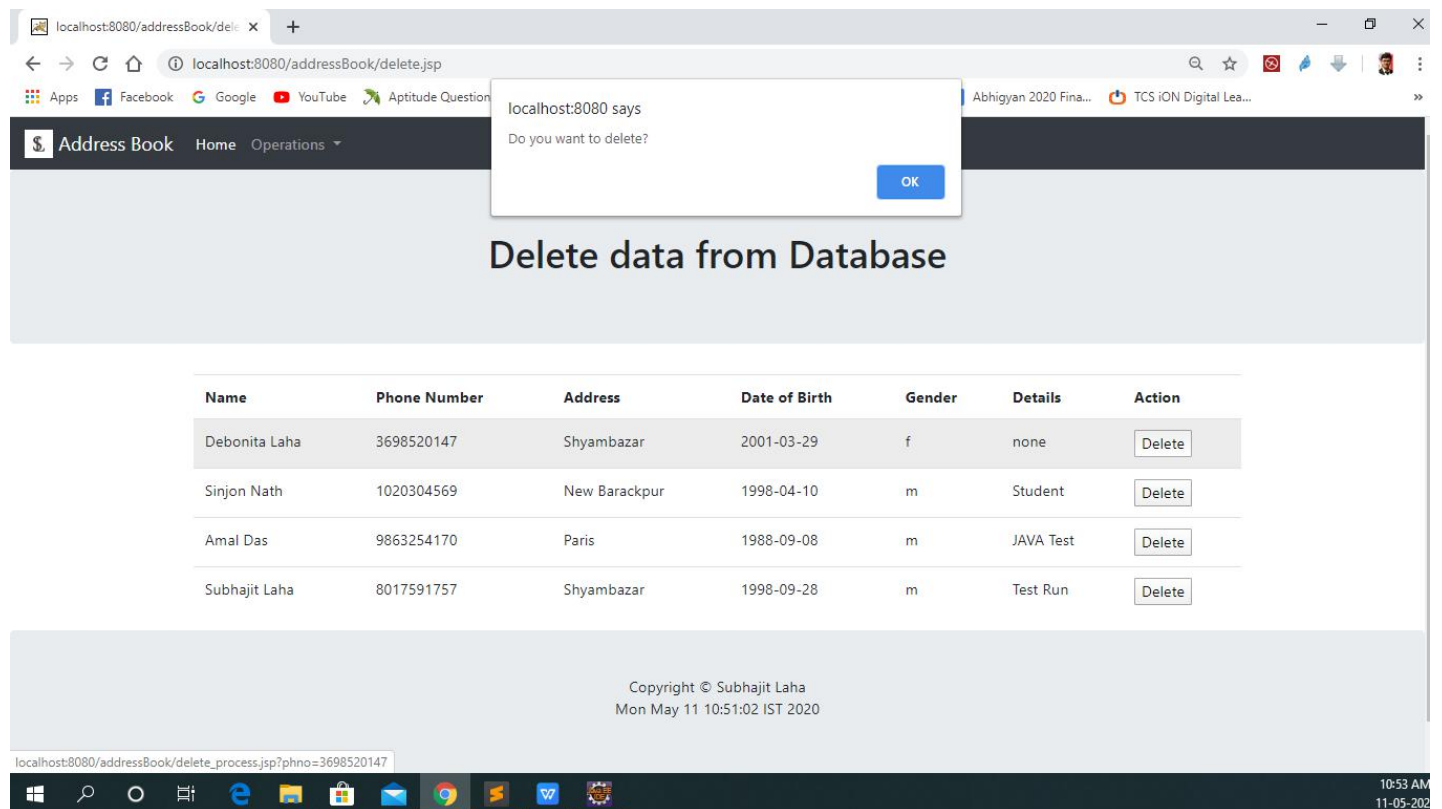
Address Book Home Operations

Delete data from Database

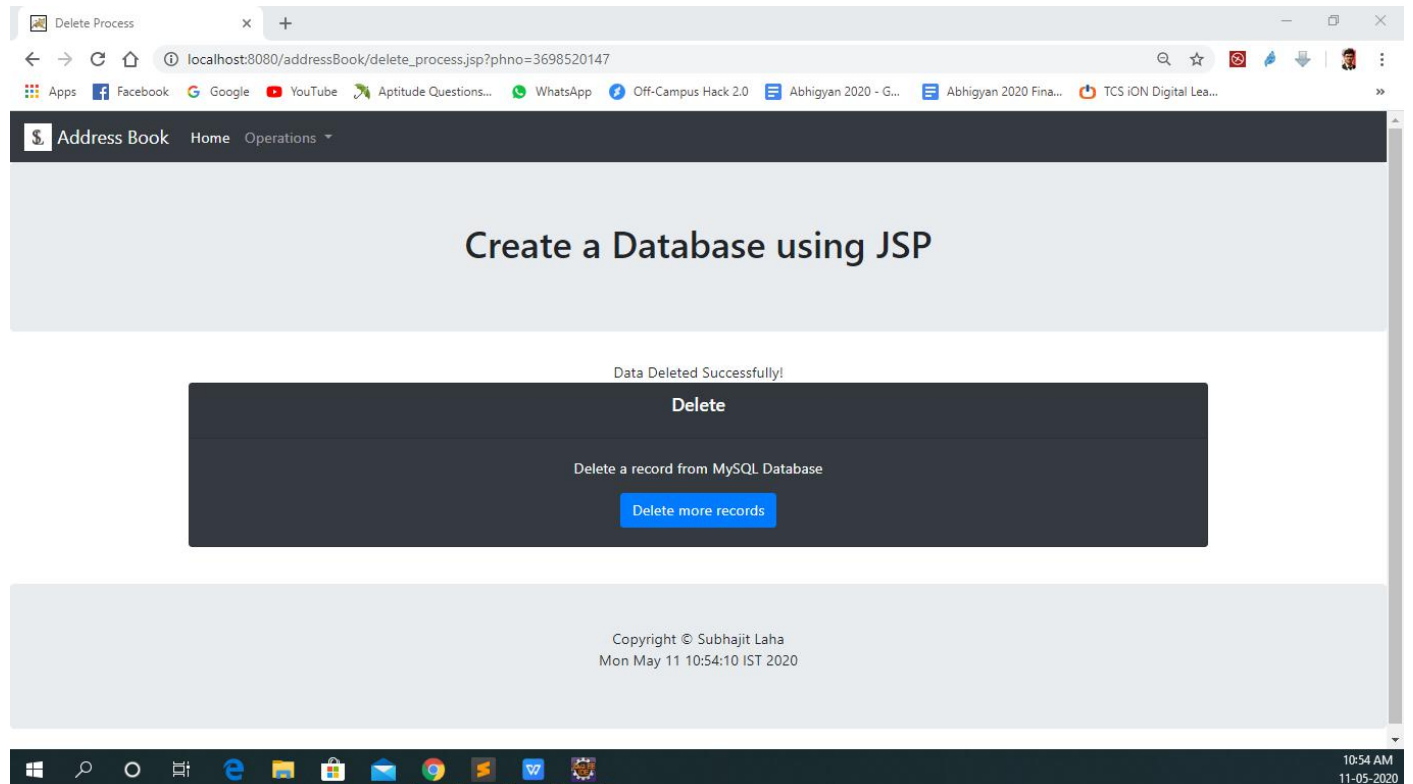
Name	Phone Number	Address	Date of Birth	Gender	Details	Action
Debonita Laha	3698520147	Shyambazar	2001-03-29	f	none	Delete
Sinjon Nath	1020304569	New Barackpur	1998-04-10	m	Student	Delete
Amal Das	9863254170	Paris	1988-09-08	m	JAVA Test	Delete
Subhajit Laha	8017591757	Shyambazar	1998-09-28	m	Test Run	Delete

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Mon May 11 10:51:02 IST 2020

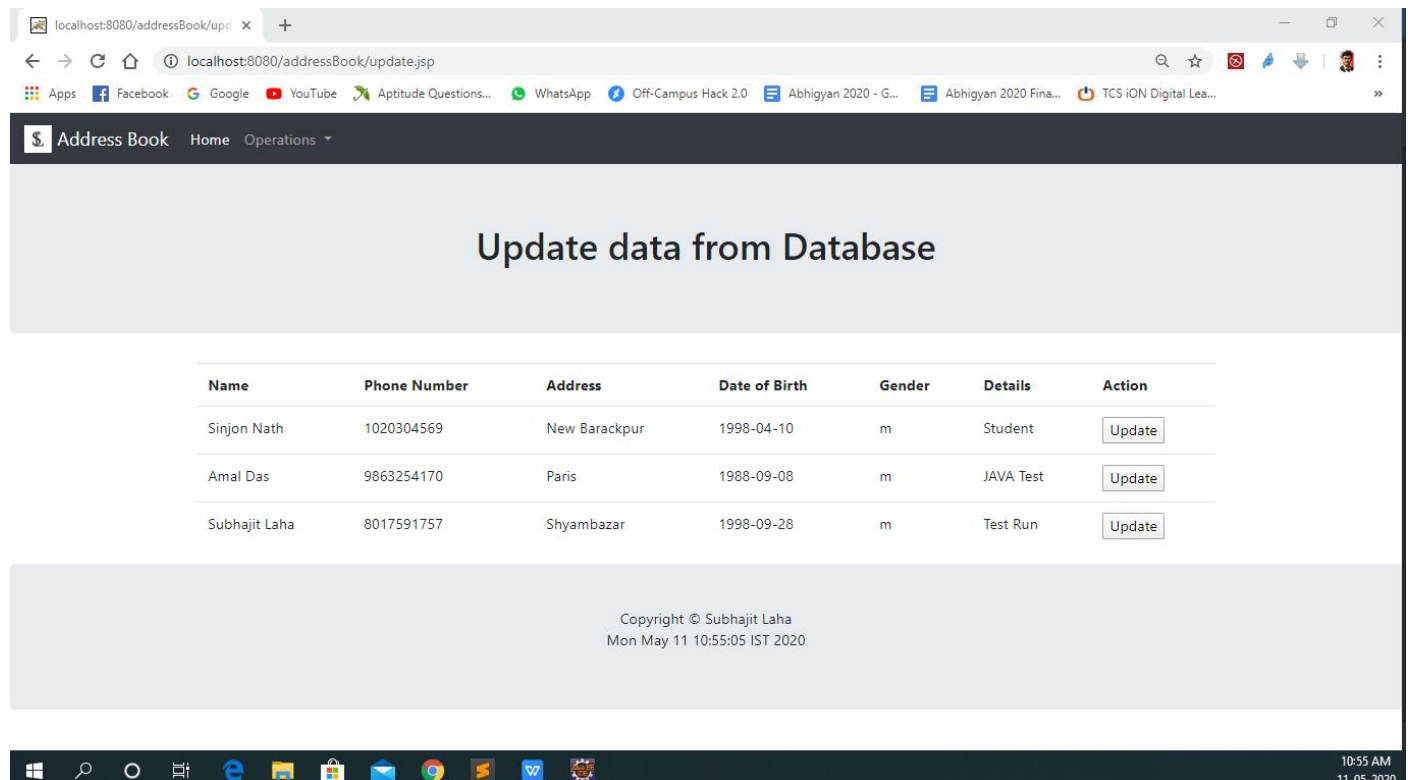
10:52 AM
11-05-2020



After Pressing OK Button



Update any record



localhost:8080/addressBook/update.jsp

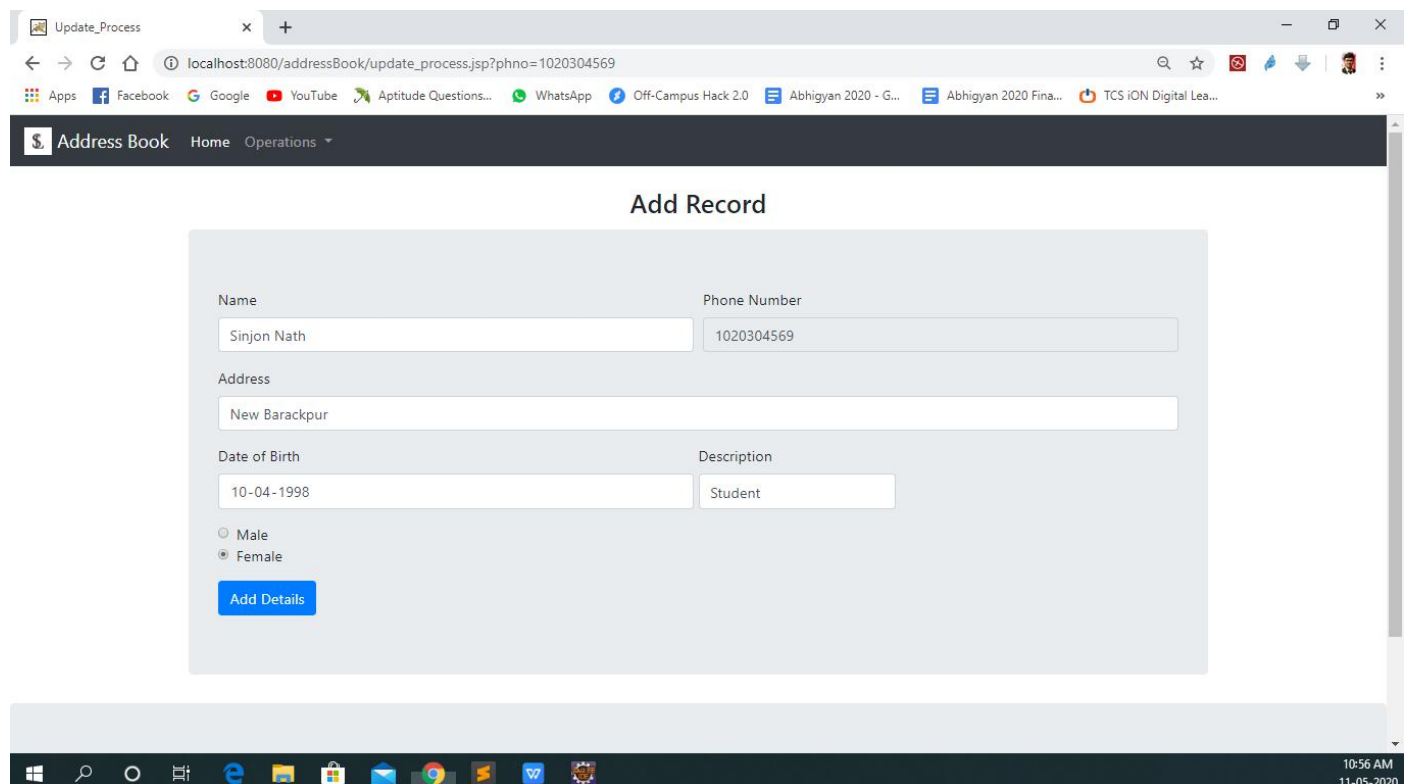
Address Book Home Operations

Update data from Database

Name	Phone Number	Address	Date of Birth	Gender	Details	Action
Sinjon Nath	1020304569	New Barackpur	1998-04-10	m	Student	<button>Update</button>
Amal Das	9863254170	Paris	1988-09-08	m	JAVA Test	<button>Update</button>
Subhajit Laha	8017591757	Shyambazar	1998-09-28	m	Test Run	<button>Update</button>

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Mon May 11 10:55:05 IST 2020

After Pressing Update Button



Update_Process

localhost:8080/addressBook/update_process.jsp?phno=1020304569

Address Book Home Operations

Add Record

Name: Sinjon Nath Phone Number: 1020304569

Address: New Barackpur

Date of Birth: 10-04-1998 Description: Student

☐ Male ☒ Female

Add Details

After changing the details and submitting the same

The screenshot shows a web browser window with the address bar displaying the URL: `localhost:8080/addressBook/update_process_submit.jsp?name=Sinjon+Nath&phno=1020304569&address=New+Barackpur&dob=1998-04-10&desc...`. The browser's address bar also shows several open tabs: 'Update Process Submit', 'Facebook', 'Google', 'YouTube', 'Aptitude Questions...', 'WhatsApp', 'Off-Campus Hack 2.0', 'Abhigyan 2020 - G...', 'Abhigyan 2020 Fina...', and 'TCS ION Digital Lea...'. The web application's header is dark blue with the text 'Address Book' and a navigation menu with 'Home' and 'Operations'. The main content area is light blue and displays the text 'View added information' in a large, bold font. Below this, a message states 'Record Updated Successfully' and 'Go to Home Page'. At the bottom, a copyright notice reads 'Copyright © Subhajit Laha' and 'Mon May 11 10:57:44 IST 2020'. The Windows taskbar at the bottom shows various application icons and the system clock indicating 10:57 AM on 11-05-2020.

Searching can be done by any fields of users choice

The screenshot shows a web browser window with the address bar displaying the URL: `localhost:8080/addressBook/search.jsp`. The browser's address bar also shows several open tabs: 'Create a Database using JSP', 'Facebook', 'Google', 'YouTube', 'Aptitude Questions...', 'WhatsApp', 'Off-Campus Hack 2.0', 'Abhigyan 2020 - G...', 'Abhigyan 2020 Fina...', and 'TCS ION Digital Lea...'. The web application's header is dark blue with the text 'Address Book' and a navigation menu with 'Home' and 'Operations'. The main content area is light blue and displays the text 'Create a Database using JSP' in a large, bold font. Below this, there is a search form with a dropdown menu labeled 'Name' and a text input field. A blue 'Search' button is located below the input field. At the bottom, a copyright notice reads 'Copyright © Subhajit Laha' and 'Mon May 11 10:58:10 IST 2020'. The Windows taskbar at the bottom shows various application icons and the system clock indicating 10:58 AM on 11-05-2020.

Lets Search by gender='f'

Create a Database using JSP

Gender ▾

f

Search

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Mon May 11 10:58:10 IST 2020

Here we can see there are no records with gender = 'f'

Create a Database using JSP

Name ▾

Search

Name	phno	address	dob	gender	details
------	------	---------	-----	--------	---------

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Mon May 11 11:00:23 IST 2020

Searching name starting with S

The screenshot shows a web browser window with the URL `localhost:8080/addressBook/search.jsp?f=gender&val=f`. The page has a dark header with the title "Address Book" and navigation links "Home" and "Operations". The main content area has a light blue background with the heading "Create a Database using JSP". Below this, there is a search form with a dropdown menu labeled "Name" and a text input field containing the letter "S". A blue "Search" button is positioned below the input field. Below the search form, a table is displayed with the following columns: Name, phno, address, dob, gender, and details. The table is currently empty. At the bottom of the page, there is a footer with the text "Copyright © Subhajit Laha" and "Mon May 11 11:00:23 IST 2020".

Name	phno	address	dob	gender	details
------	------	---------	-----	--------	---------

Search result

The screenshot shows the same web browser window, but the URL is now `localhost:8080/addressBook/search.jsp?f=name&val=S`. The search form is identical, but the text input field is empty. The "Search" button is still present. Below the search form, the table now contains two rows of data:

Name	phno	address	dob	gender	details
Sinjon Nath	1020304569	New Barackpur	1998-04-10	m	BPPIMT
Subhajit Laha	8017591757	Shyambazar	1998-09-28	m	Test Run

The footer remains the same, displaying "Copyright © Subhajit Laha" and "Mon May 11 11:02:33 IST 2020".

Code Link - <https://github.com/Laha988017/Address-Book>

References

- <https://www.studentstutorial.com/java-project/jsp-insert-data.php>
- <https://stackoverflow.com/>
- <https://www.youtube.com/user/javaboynavin>

Main Problem Statement

This is a simple address book in which you can save and retrieve entries. Entries can have a large amount of information, including name, address, phone number, date of birth, sex and with a specified number of lines available for notes. You can add, delete or modify entries, **search** all records or individual record.

Data base is optional. GUI using Swing is preferable.