Technologies Used

Java 8 , springboot,springmvc, h2 database, thymeleaf,tomcat

How To Run

1. Download code zip from https://github.com/rachanaSane/AddressBook
2. Import code into your favourite editor (eclipse/intellij)
3. Open class `com.pwc.au.book.AddressBookApplication` , right click class and run as javaApplication.
4. Open URL http://localhost:8080/

Assumptions

- This is a web application with in memory database. No default values are present.
- Address Book name should be unique
- While comparing address books, names are case sensitive.
- Contact Name inside Address book need not be unique.
- only 2 address books could be compared. But code is written such a way that it could be extended if required to support multiple address books.
- Search for unique contact names across address books is case sensitive.

Things could have improved

There are several things which could have been improved. But I tried to complete within 8 hours hence remaining.

- Better test coverage.
- Adding feature to support no same contact name within one address book
- Generic Error handling with custom exception classes.
- Introducing service layer in between controllers and repositories
- Better css classes for frontend, better structure
- Better UI features like ability to select from existing address books while comparing

Some screenshots

Address Book List

Compare Address books   Add Address book

Address Book ID	Name		
1	personal contacts	View Contacts	Add Contact
2	business contacts	View Contacts	Add Contact

Create New Contact

Contact Name: ashu

Phone Number: 0401776938

Save

Contact List

Go Back to Home Page

Contact ID	Name	Phone Number
4	ashu	0401776938
3	rachana	0401776938

Go Back to Home Page

Compare Address Books

Address Book Name 1: personal contacts

Address Book Name 2: business contacts

Compare

Unique contact names

Name
ashu
rishit