Contacts web application

This project develops a list of contacts that helps the users to communicate with different persons efficiently. The user can specify his/her selection from a big list of contacts, the user could search by name, age, etc. and makes combination of these attributes to filter what he/she want from list or just 1 click on search button to get all contacts in the list with effortless.

Prerequisites:

- NetBeans IDE (Java EE) bundle.
  https://netbeans.org/downloads/
- MySQL Installer Web Community.
  https://dev.mysql.com/downloads/installer/

Installation:

Very simple,

1. After downloading just double click on NetBeans icon and it will install all required libraries and SDK, remember to download NetBeans IDE Java EE bundle from the above link.

2. Now, installing MySQL on Windows double click on MySQL installer web community, so go ahead and check

the box that I accept the license terms, go and click next and keep the developer default then click next and checks the requirements for MySQL Microsoft Visual C++ for example, execute them and click next then it looks for other products like MySQL Server just install them all then click next and keep all as a default until reach to the root password point, choice what password you want and click next and keep the defaults until end of installation.

3. Now we are going to verify installation, open MySQL Workbench and click on the local instance to enter your SQL Database and you could run simple query to test Database.

4. We will create new MySQL user for our application I will use (user id: contactsApp, password: contactsApp) and just write this query to create new user and do not forgot to execute it by the lighting button.

```
CREATE USER 'contactsApp'@'localhost' IDENTIFIED BY'contactsApp';

GRANT ALL PRIVILEGES ON *.* TO 'contactsApp'@'localhost';
```

5. Now close from localhost root and create new connection just click on + button at top left and type in the connection name input “contactsApp” and also the username input, then test connection at the bottom with the same password

"contactsApp" it should Successfully have made MySQL connection.

6. Connect to the new user, create new database table that is called "contacts" with 7 columns here is the query.

```
CREATE DATABASE  IF NOT EXISTS
`contacts_db`;

USE `contacts_db`;


-----Table structure for table `student`

DROP TABLE IF EXISTS `contacts`;


CREATE TABLE `contacts` (

`id` int(11) NOT NULL AUTO_INCREMENT,

 `name` varchar(45) DEFAULT NULL,

`email` varchar(45) DEFAULT NULL,

`age` int(11) DEFAULT NULL,

`state` varchar(45) DEFAULT NULL,

`city` varchar(45) DEFAULT NULL,

`job` varchar(45) DEFAULT NULL,
```

```
PRIMARY KEY (`id`)
)
ENGINE=InnoDB AUTO_INCREMENT=1
DEFAULT CHARSET=latin1;
```

7. That is fine, now we have to go to NetBeans just open the project from top left click on file and then open project everything is configured in project (Hibernate and MySQL connector Jar) you could change the userid and password from hibernate.cfg.xml file.

Running The Project:

At the right of NetBeans expand project and go to Web Pages file and then right click on RegistrationView.jsp and click run file.

Note: Glassfish server will start automatically and please take care if there are other servers running just turn them off.

Running The Tests(Junit):

Open Test Packages file then com.model package and then choice any class to test, just right click on it and run the file.

Example:

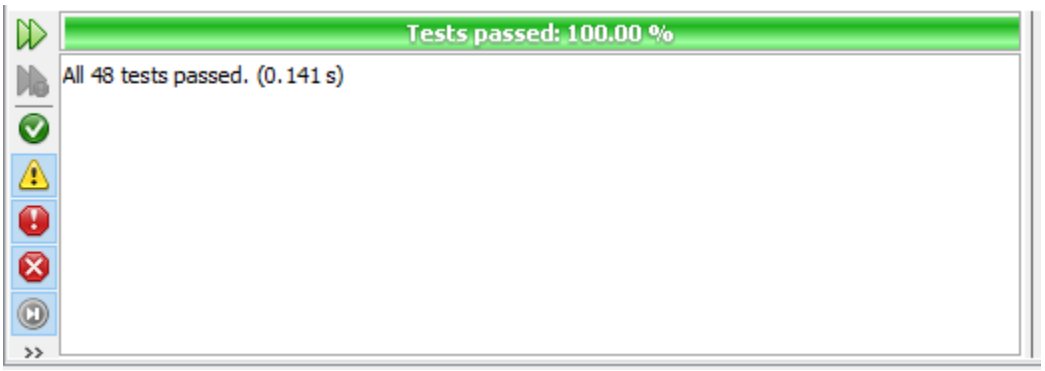
```
/**
     * Test of getChoiceYourMethodText method, of class
Languages.
     */

    @Test
    public void testGetChoiceYourMethodText() {

        System.out.println("getChoiceYourMethodText");
        Languages instance = new Languages();
        instance.setChoiceYourMethodText_En();
        String expResult_En = "Choice your method:";
        String result_En = instance.getChoiceYourMethodText();
        assertEquals(expResult_En, result_En);

        //Spanish
        instance.setChoiceYourMethodText_Span();
        String expResult_Span = "Elija su método:";
        String result_Span =
instance.getChoiceYourMethodText();
        assertEquals(expResult_Span, result_Span);

        //Portuguese
        instance.setChoiceYourMethodText_Port();
        String expResult_Port = "Escolha seu método:";
        String result_Port =
instance.getChoiceYourMethodText();
        assertEquals(expResult_Port, result_Port);
    }
```



Built with:

- Hibernate.
- NetBeans.
- MVC model.
- MYSQL.
- Glassfish.

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