Contacts Control Application for the company "WEB 2009"

Technical Requirements:

Language: Java.

Use: Servlets and JSP.

Database: MySQL.

Time: 5 days.

General Idea:

The general idea is to have a web application to manage the contacts of the company WEB 2009 (non-real company). As any company, they have different departments, and each department have clients (**individuals or organizations**). The web application will be used by **users** with different levels if access.

- The system will manage 2 types of contacts: individuals and organizations.
- The system will be used by Users with 4 different levels of authorization.

For individuals, we need the following fields:

- First name (text field input)
- Last name (text field input)
- Address (text field input)
- City (text field input)
- Country (select field – populated with countries)
- Phone (text field input – just numbers)
- Mobile text field input – just numbers)
- Email (text field input – email only)
- Start date: date when the contact was stored in the system. (hidden field or date automatically created by the database)
- Last update date: date when the contact information was modified in the system. (hidden field or date automatically created by the database)
- Organization to which he/she belongs: (combo box with the list of organizations currently stored in the system).
- Interests: a contact can have interests as: sports, business, marketing, etc. (check boxes or multiple select filed).

- Services: a contact can have services as: technical support, sales, etc. (check boxes or multiple select filed).
- Observations: plain text. (text area field).
- Status: active, inactive. If inactive, we need to store the date when the contact was inactivated. (radio buttons)
- Reason: why the user was entered to the database. Plain text. (text area field).
- Contact Owner: the name of the user that is entering the contact into the system. (Automatically filled, depending on the user that is logged in).

For organizations:

- Organization name
- Address
- City
- Country
- Phone
- Fax
- Email
- Website URL
- Status
- Interests
- Services
- Reason
- Contact Owner

Interests: this helps to filter contacts. System must allow to add/edit/delete interests.

Services: this helps to filter the contacts. System must allow to add/edit/delete services.

Contact Owner (user): he/she is the person who entered an individual or organization into the system. This is the only user who can modify the information of those contacts. The other users can read the contacts info of other users but not modify.

When a contact is entered into the system, we need to verify that the contact doesn't already exist in the database (by name, lastname, email, etc).

Users (contact owners)

They will have 4 different levels of access to the system. (consultation [1], owner[2], department boss[3], supervisor[4]).

Fields:

- First name
- Last name
- Phone
- Mobile
- Email
- Department (drop down menu. List of department populated from the database)
- Level
- Status
- Creation Date
- Status change date
- Observations

User with level 1: He can just see the basic information of each contact: first name, last name, phone, email, contact owner.

User with level 2: He can see all the contacts info, but just edit his own contacts.

User with level 3: He can edit the contacts of the users registered in his department. He can create users with level 1 and users with level 2 under his department.

User with level 4: He can see all the contacts info, edit any contact, create users with level 1,2,3,4. He can also edit the interests and services lists. He can edit/add departments.

Search

The system must allow searching contacts by first name, last name, phone, interests, services, contact owner, department, and status.

Pages for the web application

For users Level 1

- Login
- Search contact (save search)
- View contact
- Saved searches (export results)

For users Level 2

- Login
- Create contact
- List contacts (edit, delete)
- Search contact
- Saved searches (export results)

For users Level 3

- Login
- List users under his department
- Search users
- List contacts of his users (edit, delete)
- Create new user under his department
- Search contact
- Add contact
- Saved searches (export results)

For users Level 4

- Login
- List departments (add, edit)
- List services (add, edit, delete)
- List interests (add, edit, delete)
- Search Users (by levels, name, email, etc.)
- Create user
- List contacts (edit, delete)
- Search contact
- Saved searches (export results)
- Add contact

General Project Tasks:

- Write the script that generates the Database (I currently have a script for the database, but you may need to make small modifications. You are free to create a new script for the database)
- Create Database
- The date when the user was created and the date of last modification cannot be changed.
- User can store search results with unique names.
- Possibility to send emails to contacts generated and stored in a query.
- It should be possible to send mass mailings to users.
- The results of the queries should be able to be exported in excel format and pdf.
- Application must be packed in a war file
- Installation instructions.