Design Document of Contact List Application

Introduction:

Contact List Application is a project which aims to provide the functionalities that help the Users to interact with the Contact List Application DBMS through a Graphical User Interface(GUI). This system is evolved around the need of an employee database. The operations such as creating a new contact, editing existing contacts, deleting contacts/contact information, etc. are done from a GUI.

The purpose of this document is to describe the high-level features of the system. This document includes design decisions and assumptions, which gives an understanding of the Contact List Application.
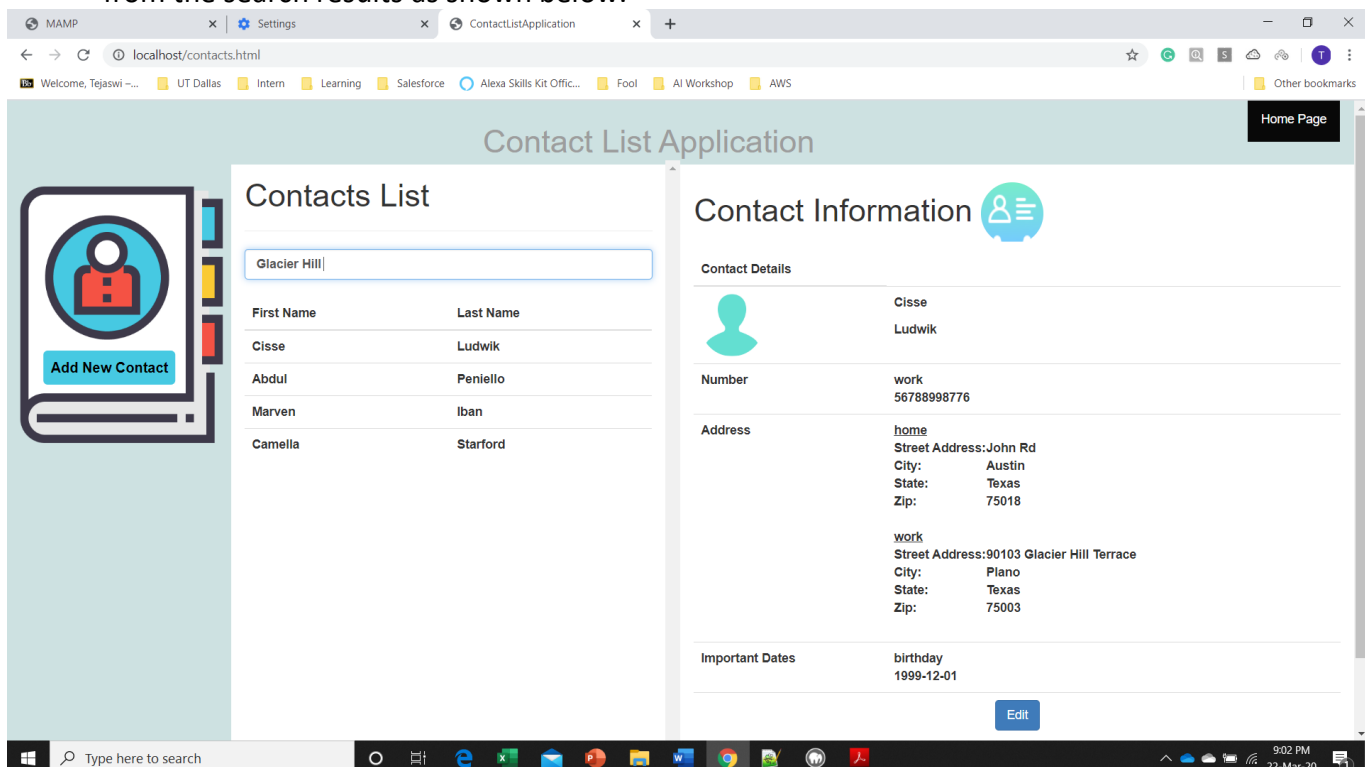
ASSUMPTIONS AND DEPENDENCIES:

- This system runs only on the local host server.
- There is only one administrator/user for the whole system.
- Deleting a contact deletes entire contact information including data from other tables(phone, address and important dates) – Cascading
- Area code taken as a part of phone number from UI ie., – Area code stored as first 3 digits from phone number in database.
- Zip Code can be var char(10)
- phone_type is var char(20), area_code int(10)

FUNCTIONAL COMPONENTS:

All interface with the database (queries, updates, deletes, etc.) are done from a graphical user interface HTML page. GUI application will interface with the Contact List SQL database via php sql connection. Initial database creation and population is done using myphpadmin. The following are the functional components of the system.

- **Contact Search:** Search for a contact, given any combination of Name components, Address component(s), Phone number components in global search bar. An option to modify or delete an entry from the search results as shown below.
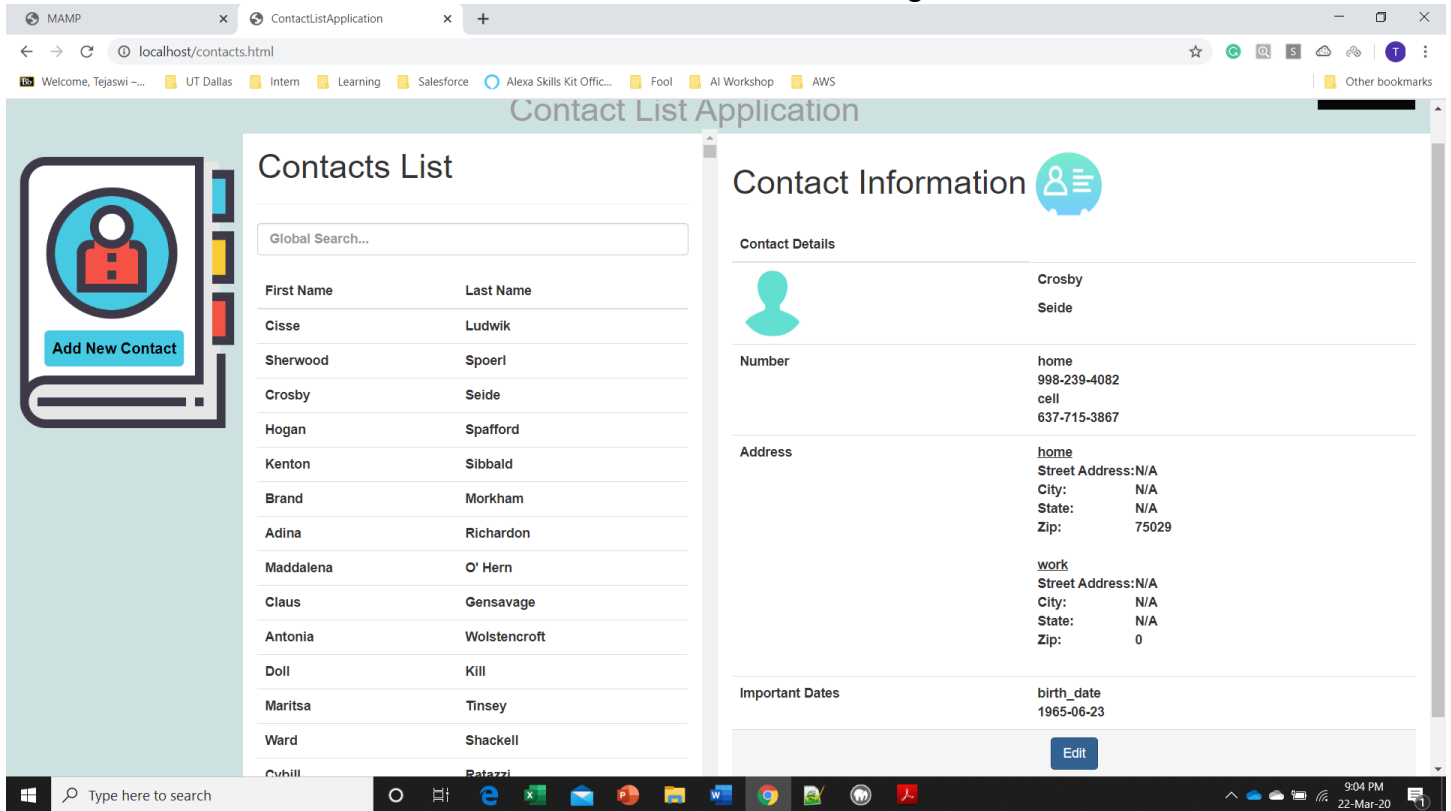
- **Create new contact:** 'Add New Contact' button to create a new contact. New Contact Entry form will be displayed where user can fill in details for contact name, phone number, address and any important date like birthday. After filling the required details click on Save Contact button to save contact details to database. If the entered details are incorrect an appropriate error message is displayed. If proper details are entered it will be stored in the database.

- **Edit existing contact:** Select the contact you want to edit by using global search. Click on Edit button on the contact details page to edit contact details or to add new fields to the contact. Use update button to update details. User can delete contact or contact details by clicking on corresponding delete button on Contact details page.

- **View Contact details:** The system provides a single search field to search a contact given any combination of information. To view any Contact Information, click on the contact from the contacts List. This can be done either from the search results or scrolling all contacts.

SQL DATABASE USED:

- MySQL

SOFTWARE's USED:

- GUI - HTML, CSS, jQuery, AJAX
- PHP, phpMyAdmin
- Apache local server, MAMP

CONCLUSION:

The Contact List Application is made computerized to reduce human errors and to increase efficiency. The system lessens the human effort.