

# **Contact List Application Design Document**

## **SYSTEM ARCHITECTURE**

The Contact List Application is designed to list the contacts in a database, including their address, phone and date.

The application has the following functions:

1. Searching for Contacts:
  - a. Contacts can be searched for given a keyword in all four tables.
  - b. Contact can also be searched separately for Address table, Contact table, Date table and Phone table.
  - c. It returns the row matching the keyword along with the number of hits.
2. Adding Contacts:
  - a. Contacts can be added by pressing the Add button.
  - b. There is an Add button for each table which returns a form to be filled for each table.
3. Modifying and Delete:
  - a. There is an action column with Edit and Delete
  - b. Edit will return a form to edit that row
  - c. Delete will delete the row from the database.

## **DESIGN DECISIONS**

1. Assume that data entered is atomic.
2. Multiple phone numbers, addresses and date for a single contact has to be manually added.
3. Date is added in yyyy-mm-dd format.

## **LANGUAGES/Frameworks/Packages USED**

1. Python flask
2. HTML
3. CSS
4. MySQL
5. Python (3.6+)
6. Python (mysql-connector)

## **REQUIREMENTS TO RUN THE APPLICATION**

1. MySQL running on local host
2. Python 3.6 installed
3. MySQL, Flask packages installed for python.