DESIGN DOCUMENT

SYSTEM ARCHITECTURE

- Everything described below is done using SQL, javascript and HTML
- There will be 4 tables created in a database called "ContactInfo"
- Table 1: "Contact"

First Name: FnameMiddle Name: Mname

Last Name: LnameKey: Contact id

• Table 2: "Address tbl"

Address id: Address_id
Contact id: Contact_id
Address type: Add_type

City: CityState: StateZip: Zip

Table 3: "Phone"

Phone id: Phone_id
Contact id: Contact_id
Phone type: Phn_type
Area code: Area_code
Number: Number

Table 4: "Date tbl"

Date type: Dt_typeContact id: Contact_idDate id: Date_id

o Date: Date

DESIGN DECISIONS

- All data entry and manipulation is done in a html form
- There is only one web page where all operations are done
- CREATE TABLE
 - Create above listed tables before doing any transactions by clicking the "Create table" button on the form
 - All tables listed above are created at once
 - All success messages are displayed in the console log for web browser
 - All error messages while creating tables are displayed in the form of pop-up alerts

INSERT

- o Insert into all tables can be done only after all tables creation
- The form is inserted as a whole
- Each element of the form is inserted into the respective table as per the above list
- o All success messages are displayed in the console log for web browser
- All error messages while inserting into tables are displayed in the form of pop-up alerts

DELETE TABLE

- All tables listed above are deleted(dropped) at once
- Once tables are deleted, they need to be created again to carry out any transactions

FETCH RECORD

- o Fetches all records according to the filled out form element
- All four tables will have the filtered records' rows displayed

ASSUMPTIONS

- You can create and delete all tables at once
- Area code for phone numbers is only 3 digits long
- Phone number is only 10 digits long
- Type of addresses: Home, work, other
- Type of Phone numbers: Home, work, fax, other
- When a record is deleted in one table (contact), all its corresponding information is deleted in the other tables(address_tbl, phone, Date_tbl) using the contact_id
- Updating a record happens table vise. Each table has a separate update button