Contact Application

**Abstract:**

With this application, a user can create a contact which consist the first name, middle name, last name, mobile number, email, company name. Additionally, user can add the extra details are location, multiple mobile numbers, multiple emails. Whenever user want, he can call or message to a particular contact, user can check the top 10 contact list, call history, user can search the particular contact or message among them. Also, user can edit, update or delete a particular contact

**Architecture:**

Contact structure has all the required member details. By using the mysql database, storing the following in the contacts database: contacts, messages, call history and activity. By using cobra, all operations will be taken as a sub command and flag. Flags are -name to mention the contact name and -message to mention the message. Contact name could be first name or middle name or last name

**Modules Explanation:**

Contact:

It is a structure which has all the members that we need to get from the user

Call:

To make call to any contact from the contact list and will update the record into the history and activity table

Message:

To send a message to any contact from the contact list and will update the record into the message and activity table

Edit:

To edit the particular contact information such as first name, middle name, last name, mobile number, email and etc

Delete:

To delete the particular contact from the contact list

CreateContact:

User will pass the sub command as “CreateContact” and can update the values in the terminal itself. All the entered values will be stored in the contact table

SearchContact:

Will take the contact’s name whether first name or middle name or last name as a command line argument with the flag -name. Based on it, will display the result

SendMessage:

Will take the contact’s name whether first name or middle name or last name and message from the user as a command line argument with the flag -name and -message. Based on, it will send to that messge to that particular user and will update into the message table as a history

SearchMessage:

Will take the message as argument from the user as a command line argument with the flag -message and will search over the message table

CallContact:

Will take the contact’s name from the user as a command line argument with the flag -name and will invoke Call interface to make a call

EditCotact:

Will take contact name from the user as a command line argument with the flag -name and will invoke Edit interface to edit the values accordingly

DeleteCotact:

Will take contact name from the user as a command line argument with the flag -name and will invoke Delete interface to delete the particular contact with the id as reference

GetTop10Contact:

Will read the activity table and will list the recent top 10 activities based on the call or message has been performed

GetCallHistory:

Will read the history table and will display all the results in the terminal