High Level Design

Document Control :

Double Tree Hotel Billing				
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Date	**Version**	**Author**	**Brief Description of Changes**	**Approver Signature**
20-10-2022	1.0	Pavithra, Haritha, Chaithanya, Jyothipriya, Manasa.	User id, User login, Admin login Contact type, Contact Details.	

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1.Introduction: -

1.1 Intended Audience: -

The document is intended to be read by Client.

1.2 Project Purpose: -

The purpose of Contact Dictionary is to implement the dictionary of contacts in which we store the information of all personal and business contacts. It enables the user to add, update, delete and list all the personal and business contacts. This application includes name, mobile number, email id, contact id, Address, emergency contact, designation. In this application we can store all attributes of all personal contacts and business contacts.

1.3 Key Project Objectives: -

1. Allow User for registrations
2. Allow users to login
3. Validates personal data (first name, last name, Phone Number1, Phone Number2, Email id1, Email id2 & Emergency Contact number)
4. Allow admin to update, delete and List all the personal and business contacts.
5. Allow the user to add new contact, display contacts i.e., either personal or business contact.

1.4 Project scope and limitation: -

This Contact Dictionary focus on the development of an information system that will automate Exact contact details of user.

1. It will generate contact id for every new user after login into the application.
2. The software will display all the contact information either the contact is business contact or Personal contact.
3. For security and privacy of the management, the Contact Dictionary allows users containing contact id with correct user id and password for login into the application.
4. The system will store and recognize user login details.

1.5 Functional Overview: -

1.5.1 Following header files are included in the program:

a #include <stdio.h>
b #include <stdlib.h>
c #include<string.h>
d #include<struct.h>
e #include<functions.h>

f   #include<macros.h>

g   #include<ctype.h>

1.5.2. Following functions are included in the program:

a) **Application process:** Insert the data to identify and manage the contact details by Registration, Admin login, user login, contact id, contact type

b) **Admin login:** The admin can login into the Contact by using the following information.

- Login id
- Password

c) **Admin menu:** By using the admin credentials admin can login into the Contact Dictionary. The below information that admin should follow

- List all personal contacts
- List all business contacts
- Delete personal contacts
- Update personal contacts
- Delete personal contacts
- Update business contacts

d) **User Registration:** The new user will login to Contact Dictionary by using username and default password "Changeme" after successful registration the user can change the password by using the following steps

- Reset password
- Give username and new password
- New password will update successfully.
- Otherwise, it will give invalid user.

e) **User login:** After successful registration of the user, the users can login to the Contact Dictionary by using user id and password. The users can view the user menu as follows

- Add contact
- Display contact

i.   **Add Contacts:** They are two types of contacts Personal contact & Business Contact.

Personal Contact:

The personal contact are as follows Contact id, First Name, Last Name, Phone Number1, WhatsApp number, Phone Number 2, Email id1, emailid2, Emergency Number & Address

Business Contact:

The Business contact are as follows Contact id, First Name, Last Name, Phone Number1, WhatsApp number, Phone Number 2, Email id1, emailid2, Emergency Number, Address, Company, Role/Designation

ii. **Display Contact:** They are two types of contacts Personal contact & Business Contact.

Personal Contact:

The personal contact are as follows Contact id, First Name, Last Name, Phone Number1, WhatsApp number, Phone Number 2, Email id1, emailid2, Emergency Number & Address

Business Contact:

The Business contact are as follows Contact id, First Name, Last Name, Phone Number1, WhatsApp number, Phone Number 2, Email id1, emailid2, Emergency Number, Address, Company, Role/Designation.

f) **Maintenance file:** Application information like contact details of user can be maintained in text files

- **Admin.txt -** where the admin information is present.
- **User.txt** - where the user information is present.
- **BusinessContact.txt -** where all the user business contacts are present.
- **PersonalContact.txt -** where all the user personal contacts are present.

g) **Validations:** under validations we must be follow the instructions such as
   1. In Contact Id we should consider only digits, if any other display appropriate message on the console.
   2. The First Name and Last Name should be only in alphabets.
   3. The Phone Number should be in 10 digits.
   4. The Email Id should Comprises of Alpha numerical + @gmail.com.
   5. The emergency contact should be accepted only when the condition is YES.

h) Proper Validation: Ensure proper validation across all entries

Name of the Module	Admin Login
Handled by	Kuppam Haritha
Description	Delete personal contact, delete Business Contact. Admin can delete personal contact and business contact.

Name of the Module	Admin Menu
Handled by	Bommasani Pavithra
Description	Update personal contact, Update Business contact. Admin Can update personal contact and business contact using admin menu.

Name of the Module	User Registration
Handled by	Chaitanya badepali
Description	Password Reset. Admin can register into the application by the username and default password. After user can create new password.

Name of the Module	User Login
Handled by	Jyothipriya manchala
Description	Add contact. After user login into the application the user can add personal contact or business contact

Name of the Module	User Login
Handled by	Manasa sadum
Description	Display Personal contact, Display Business contact. User can display personal contact and business contact.

2.1 Design Objectives: -

- Admin Login
- Admin Menu
- User Registration
- User Login
- Add Contact
- Display Contact
- Update Contact
- Delete Contact

2.2 Design Alternative: -

We have used admin to add, update, delete, list the contact using contact id. User can add and display all the contacts.

2.3 User Interface Paradigms: -

The Contact dictionary application give access to the admin and user login with a username and password. Where the details are stored in a file.

2.4 Error Detection / Exceptional Handling: -

The admin and user have to login with valid credentials. otherwise, they will get invalid username or password. After login in the admin and user can perform menu operations.
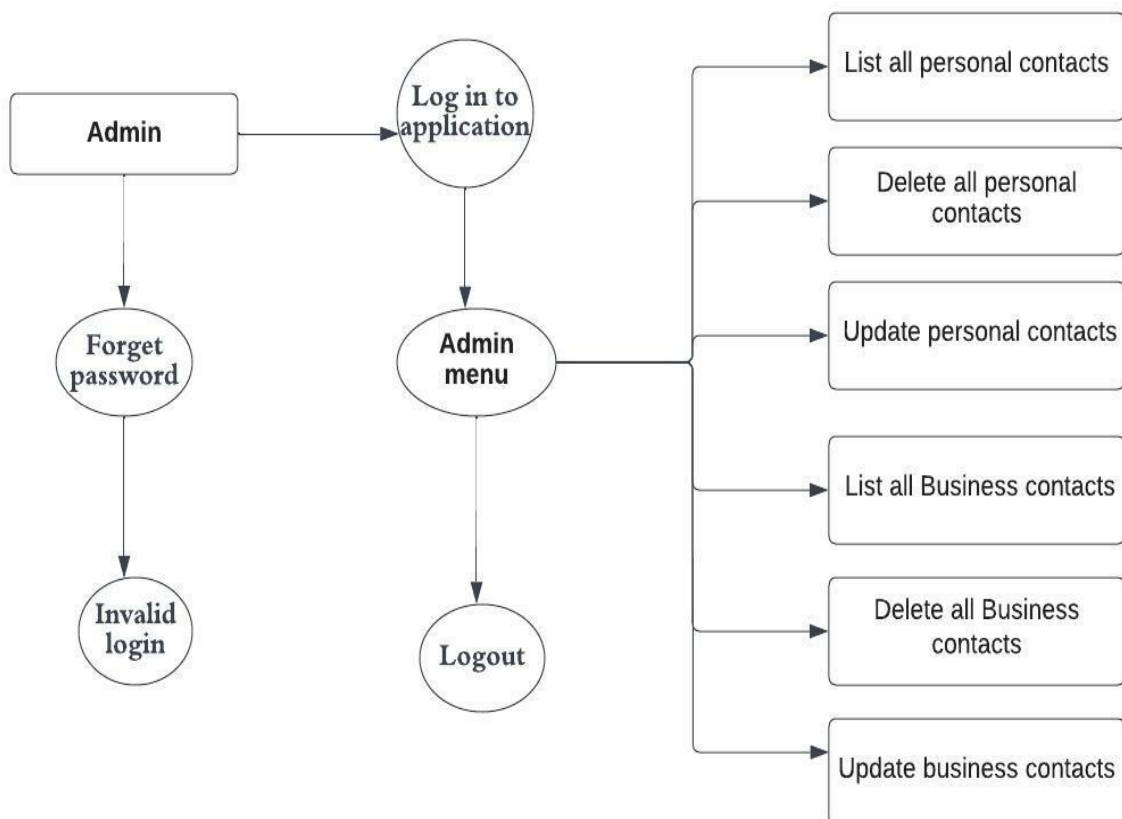
2.5 Performance: -

The system will work on the admin and User. The performance depends on the hardware component of the user's system.

2.6 Maintenance: -

The Contact Dictionary can be maintained all the personal and business contacts in a different text files.in which the admin can login with credential can update, delete & list all the personal and business contact. The users can add and display all the personal and business contacts.
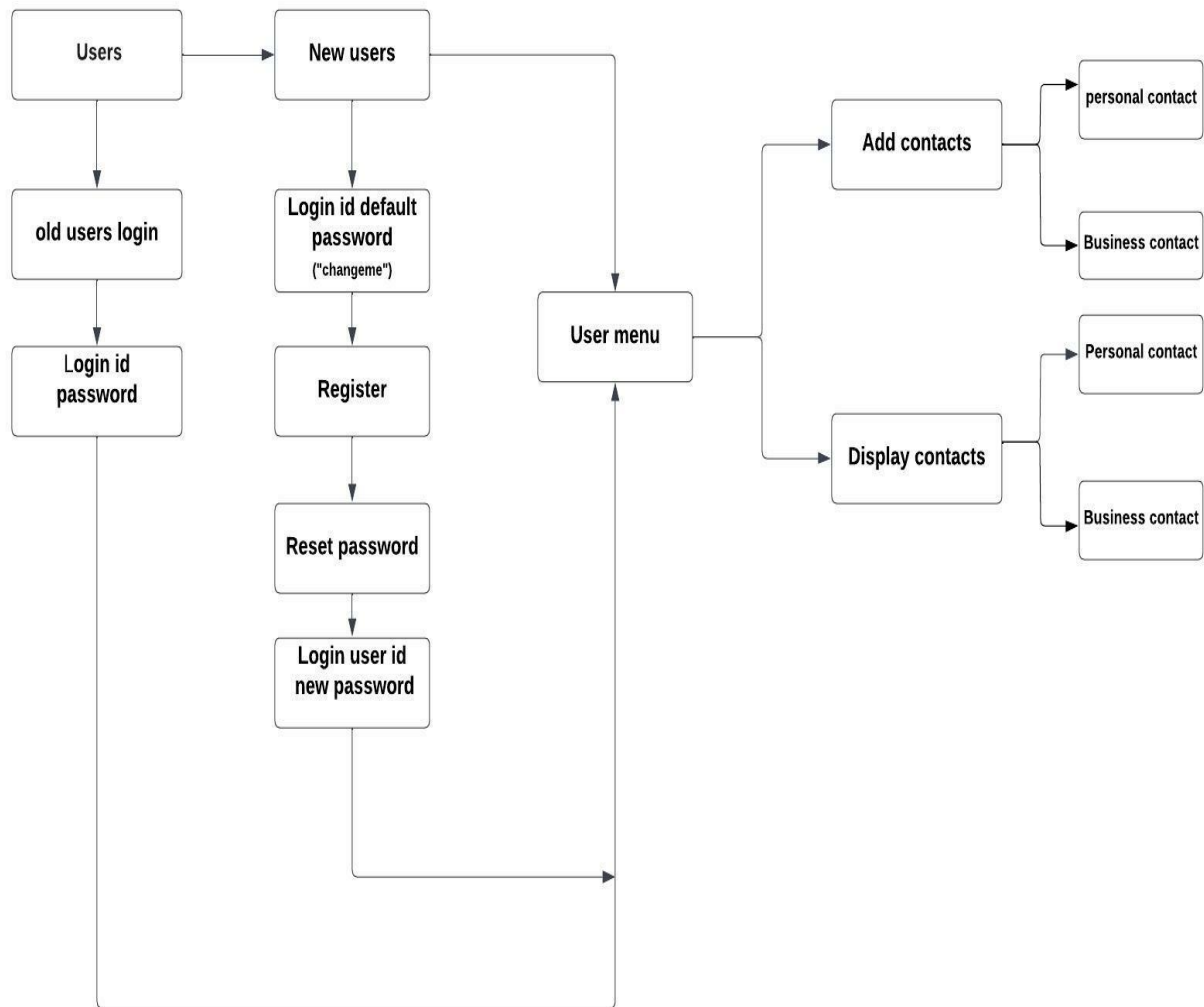
3.DETAILED SYSTEM DESIGN

Admin Block Diagram:

User Block Diagram:

4. Environment Description: -

    4.1 Time Zone Support: - IST

    4.2 Language Support: - English

    4.3 User Desktop Requirements: -

        a. 64-bit processor, 1 GHz or faster
        b. At least 2 GB free hard drive space
        c. At least 1 GB RAM

    4.4 Server-Side Requirements: -

        a 32 64-bit processor, 1 GHz or faster
        b At least 1 GB free hard drive space
        c At least 1GB RAM

4.4.1. Deployment Considerations: -

System is easy to deploy

4.4.2. Integration Requirements: -

    a. Language: - C
    b. Tools: - Valgrind, Makefile, Ctags
    c. Complier: - gcc, vi, editor
    d. Linux Environment

4.4.3. Network: - End to End

4.5 Configuration: -

4.4.1. Operating System: - Linux environment