CONTACT DICTIONARY

Software Requirements Specification (SRS) Document

Sprint 1 Implementation

Project Timeline: 20-10-2022 to 28-10-2022

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1. Introduction

The purpose of this project is to implement the dictionary of contacts in which store the information of all personal and business contacts. It enables the user to add and list the all personal and business contacts and back to main menu. Enable the admin to update, delete, list the all personal and business contact. This project includes contact id, name, mobile number, email id, emergency contact, company name, designation.

1.1 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, display all the personal and business contacts. This application includes name, mobile number, email id, contact id, emergency contact, Address, designation. In this application we can store all attributes of all personal contacts and business contacts.

1.2 Intended Audience: - The document is intended to be read by, Client.

1.3 Intended Use: -
- Development Team
- Maintenance Team
- Admin
- User

1.4 Scope: - This project aims to create the development of a Contact Dictionary. It stores all the information of admin and user. It maintained for personal and business contacts. We can add, update, delete, list the all contacts and back to main menu. List the contacts by name, phone no, email-id, address and emergency contact (yes/no). it stores the all the details of the admin and user in files.

2. Overall Description

2.1 Main Menu: -

The main menu contains the following steps for admin and user:

- **Admin login:** Admin can directly login to the application using password 'Admin'.

- **User registration:** New user needs to register first with username and default password (changeme). After successfully user registration user will update password.

- **User login:** A login and password that allows access to the user.

- **Exit:** Exit for main menu.

2.2 ADMIN LOGIN: -

Admin can directly login to the application using password 'Admin'. Admin is allowed to delete contact, update contact and lists all personal and business contacts. Admin login successfully it displays the following steps:

- **Display personal contacts:** With information such as contact id, first name, last name, mobile number 1 and 2, email id 1 and 2, address, WhatsApp mobile number, emergency contact.

- **Display business contacts:** With information such as contact id, first name, last name, mobile number 1 and 2, email id 1 and 2, company name, designation.

- **Delete personal contacts:** Delete contacts from personal the file.

- **Delete business contacts:** Delete contacts from business the file.

- **Update business contacts:** Update details of the business contacts.

2.3 USER REGISTRATION: -

New user needs to register first with username and default password (changeme). The user registration successful. User will update the password by entering username and new password.

2.4 USER LOGIN: -

While user logins to the application user need to enter the username and password if the user entered password is matched with password stored in users.txt file then user login successful.

User login successfully it displays the following steps:

1. **Add contact:**
   - ➢ Personal: Display personal contacts.
   - ➢ Business: Display business contacts.

2. **Display contact:**
   - ➢ Personal: Display personal contacts.
   - ➢ Business: Display business contacts.

2.5 LOGIN FAILURE: -

While user login to the application if the user entered password doesn't match with the password stored in users.txt file then the user fails to login the application.

3. System Features and Requirements
3.1 Functionality: -

3.1.1 options: This function is responsible for to show options on the screen.

3.1.2 Clear: This function is responsible to clear the screen.

3.1.3 Admin: This function is responsible for admin credentials.

3.1.4 Admin_menu: This function shows menu for the admin.

3.1.5 Registration: This function is responsible for user login.

3.1.6 User_login: This function is responsible for user login.

3.1.7 User_menu: This function shows the user menu.

3.1.8 Add_new_contact: This function is responsible for adding new contacts by the user.

3.1.9 Name: This function is responsible to check whether the name is valid or not.

3.1.10 Mobile no: This function is responsible to check whether the email id is valid or not.

3.1.11 Email id: This function is responsible to check whether the email id is valid or not.

3.1.12 Emergency contact: This function is responsible to check whether emergency contact is valid or not.

3.1.13 Delete_personal: This function is responsible to delete personal contact.

3.1.14 Delete_business: This function is responsible to delete business contact.

3.1.15 Update_personal: This function is responsible to update personal contact.

3.1.116 Update_business: This function is responsible to update business contact.

3.1.17 Display_contact_options: This function is responsible to display contact options.

3.1.18 List_all_personal_contacts: This function is responsible for listing all personal contacts.

3.1.19 List_all_business_contacts: This function is responsible for listing all business contacts.

3.2 System Requirements: -
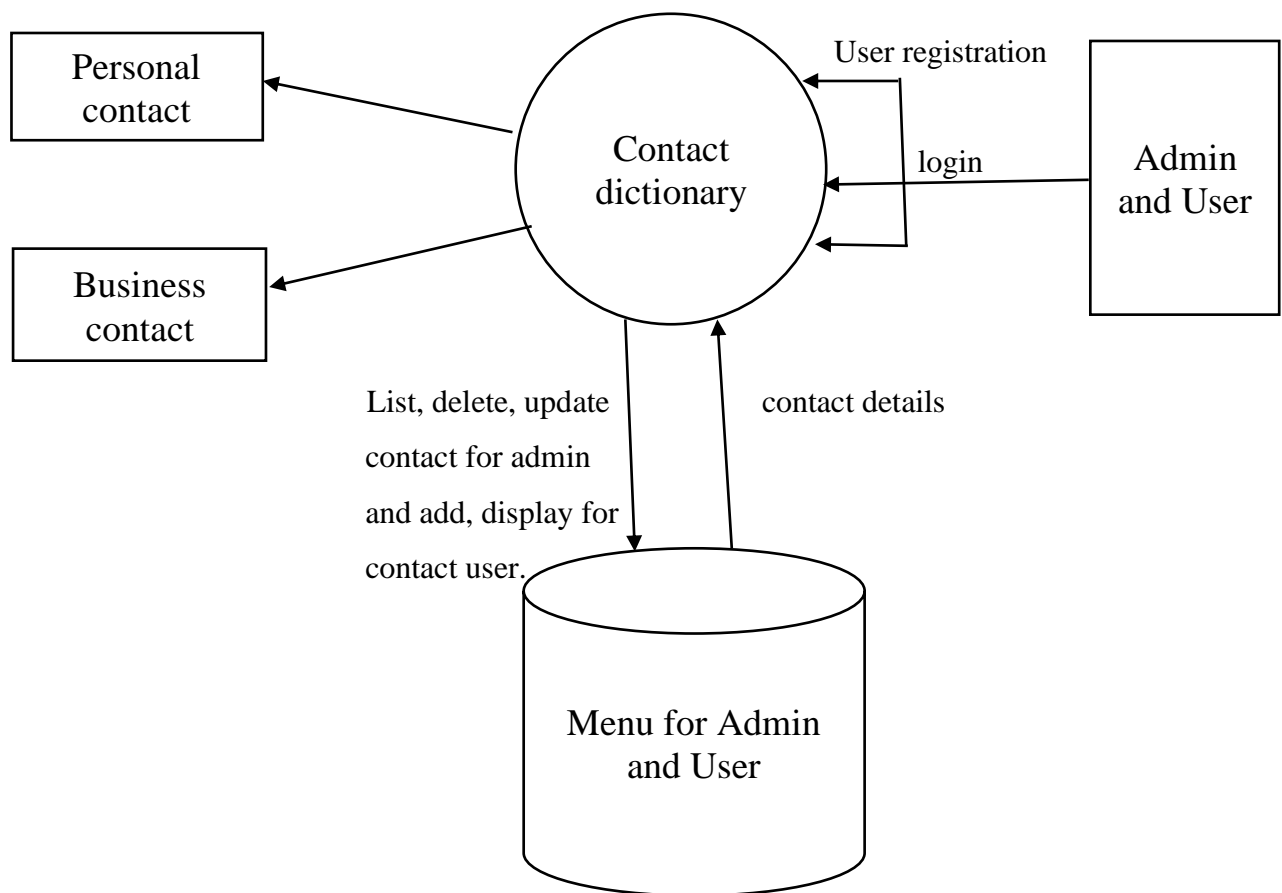### 3.2.1. Tools to be used:

- C String Library

- C File Handling

- C Language

- System Programming

3.3 System Features: -

- Supportability: The system is easy to use.

- Design Constraints: The system is built using only C language.

- Usability: Reliability & Availability: The system is available 24/7 that is whenever the user would like to use the system, they can use it up to its functionalities.

- Performance: The system will work on the user's terminal.

4.Data Flow Diagram

4.1 DFD Level 0

Personal contact

Business contact

Contact dictionary

User registration

login

Admin and User

List, delete, update contact for admin and add, display for contact user.

contact details

Menu for Admin and User

4.2 DFD Level 1

New User

Changeme password

Personal contact

Contact Dictionary

Login

Admin and User

Business contact

List, delete, update contact for admin and add, display contact for user.

contact details

Menu for Admin and User