

**Phonebook application**

**Software Requirement Specification (SRS) Document**

**Sprint Implementation**

**Project Timeline: 08.11.2022 to 12.11.2022**

**INDEX**

1. Introduction

1.1 Purpose -------------------------------------------------- 3

1.2 Intended audience -------------------------------------------------- 3

1.3 Intended use -------------------------------------------------- 3

1.4 Scope -------------------------------------------------- 3

1.5 Definition and acronyms -------------------------------------------------- 3

2. Overall description -------------------------------------------------- 4

2.1 User needs -------------------------------------------------- 4

2.2 Assumptions and dependency -------------------------------------------------- 4

3. System feature and requirements -------------------------------------------------- 4

3.1 Functionality -------------------------------------------------- 4

3.1.1 Add phone record -------------------------------------------------- 4

3.1.2 Display phone record -------------------------------------------------- 5

3.1.3 Search phone record (by name) -------------------------------------------------- 5

3.1.4 Search phone record (by number) ------------------------------------------------ 5

3.1.5 Modify phone record -------------------------------------------------- 5

3.1.6 Delete phone record -------------------------------------------------- 5

3.2 System requirement -------------------------------------------------- 5

3.2.1 Tools to be used -------------------------------------------------- 5

3.3 System feature -------------------------------------------------- 5

4. Dataflow diagrams -------------------------------------------------- 6

4.1 DFD level-0 -------------------------------------------------- 6

4.2 DFD level-1 -------------------------------------------------- 7

4.3 DFDs for different modules -------------------------------------------------- 8

5. Reference -------------------------------------------------- 10

### 1.INTRODUCTION: -

The introduction of the software requirement specification provides an overview of the entire

software. The entire SRS with overview description purpose, scope, tools used and basic

description. The aim of this document is to gather, analyze and give an in-depth insight into

the complete phonebook management system by defining the problem statement in detail.

The detailed requirements of the phonebook system are provided in this document.

* 1. **Purpose**: **-**The purpose of this document is to describe the requirements to track all information related to each contact in your contact list and keep an organized history of all past conversations. The main purpose of Phonebook management is to record and organize your contacts
  2. **Intended Audience: -**This document is intended to be read by Client.
  3. **Intended Use: -**
* Development Team
* Maintenance Team
* Clients

Since this a general-Purpose Software Thus any one Can access it.

* 1. **Scope: -**This project aims to create the development of an automated system of Phonebook management is to assist any organization in storing and retrieving all the information about a pre-existing customer in a way more robust and efficient manner. All the information about a particular customer is stored in a retrievable manner.
  2. **Definition and Acronyms: -**

1. Client: The user who is going to use this software.

2. List1.txt: The file where all the contacts get stored.

3. “**-a** “: Insert

4. “**-s**”: Search

5. “**-r**”: Delete

6. “**-I**”: Display

7. “**-m**”: Merge

8. “**-u**”: Update

9. “**-n**”: Number

**2. 1 OVERALL DESCRIPTION: -**

A contact management application tracks your business contact information. It is a file for the communications you make daily, including names, addresses, emails, and phone numbers. You can use a contact manager to easily organize and find all the information linked to business communications. In recruiting, you can use a contact management tool to keep track of candidate and client contact information. The application integrates all your contact information for different job orders. The main purpose of contact management is to record and organize your contacts.

**2.2 Assumptions and Dependency: -**

* User must give command line input in specified format
* User has the latest version of Ubuntu Linux installed.
* Client has either an 4GB or more RAM.
* The service is used preferably on a desktop or laptop.

**3.SYSTEM FEATURES AND REQUIREMENTS: -**

**3.1 Functionality: -**

**3.1.1 PB\_O1->Add phone record**: This feature adds a new phone record to the file. It asks for the phone number and name of the person whose record is to be created. Upon successful creation of a new phone record, the phonebook management system program displays the message – “Phone details successfully stored.” If the new phone record already exists in the file, it displays the message – “Contact already exist.” If new phone number is not equal to ten digits, then it displays the message- “Invalid Number.”

**3.1.2 PB\_02->Display phone records**: In phonebook management system, this feature allows user to list all the phone records stored in file. The information displayed here are phone record number, phone number and the person’s name.

**3.1.3 PB\_03->Search phone records**: This function is quite simple, and with-it users can search for a phone record by the name of a particular person whose record has already been added in the file. If the contact which is to be searched and it is not found in phonebook it displays the message- “No result found"

**3.1.4 PB\_04->Search phone records**: This function is quite simple, and with-it users can search for a phone record by providing phone number of a particular person whose record has already been added in the file. If the contact which is to be searched and it is not found in phonebook it displays the message- “No result found"

**3.1.5 PB\_05->Modify phone record**: This simple feature allows user to edit the phone number and person name corresponding to a particular phone record. If the contact which is to be Modify and it is not found in phonebook it displays the message- “Contact do not exist”.

**3.1.6 PB\_11->Delete phone record**: This feature deletes added phone record from the file. The user needs to provide the phone number to be deleted from phonebook management system. Upon successful deletion, it displays the message – “Record deleted!”. If the phone number provided is not found in file, the program displays the message – “Contact doesn’t exist!

### ****3.2 System Requirements: -****

### ****3.2.1.**** Tools to be used:

* C File Handling
* C Language
* System Programming
* Port no: - 9988
* Port address: **127.0.0.1**

**3.3 System Features: -**

### Supportability: The system is easy to maintain.

* Design Constraints: The system is built using only Clanguage.

### Usability: Phonebook management is essential for keeping digital records of

### customer data. Phonebook management is the process of storing and

### tracking data on customers and leads. The software can handle basic

### information such as name and phone number.

### Reliability & Availability: The system is available when the user is requested for service. The system is available 24/7.

### Performance: The system will work on the user’s terminal.

**4.DATAFLOW DIAGRAMS:**

**4.1 DFD level-0: -**

**Diagram

Description automatically generated**

**4.2 DFD level-1: -**

**Diagram

Description automatically generated**

**4.3 DFDs for different Modules: -**

**Diagram

Description automatically generated**

**Diagram

Description automatically generated**

**Diagram

Description automatically generated**

**Diagram

Description automatically generated**

**Diagram

Description automatically generated**

**4.REFERENCE: -**

1. <https://www.ibm.com/docs/en/i/7.1?topic=programming-how-sockets-work>
2. <https://www.geeksforgeeks.org>
3. <https://www.slideshare.net/SpGurjar/phone-book-with-project-report-for-bcamca>
4. <https://t4tutorials.com/phonebook-management-system-c-project/#:~:text=The%20phonebook%20is%20a%20very,data%20from%2Fto%20a%20file>.
5. <https://cppsecrets.com/users/22319897989712197103975756505164103109971051084699111109/C00-implementation-of-Phone-Book-Management-System.php>