

PhoneBook Project Report

Md. Albin Hossain, Nusrat Jahan Marjana, Marjea Anam Mila, Raju Ahmed
Section: O-13, Level: 2, Term: 2, Department of CSE, Daffodil International University
{albin15-12926, nusrat15-12999, marjea15-12987 & raju15-12672}@diu.edu.bd

Abstract

This is a mini project of a phone book system. Methods for establishing communication with a person using a communication device such as a cell phone are disclosed. The communication device has two or more contact numbers for establishing communication with a particular person (e.g., work, home or cell), such as might be programmed into a cell phone's phonebook. The user defines some rules for the person such as adding new contact, viewing contact, editing contact, searching and deleting contact etc and the rules are associated with the various contact numbers of the person. This project will make the alphabetical order automatically & also convert the first letter of name into capital letter if anyone makes a mistake. It saves the numbers. We can see all of them at a time, search them by name and also delete the unimportant number if we want.

Key Words: Linear Search, Contacts, Menu, Sorting, Algorithm

I. Introduction

Phone Book project is used to manage the details of contacts; name and phone number. This project includes these Features

- I. Add new contacts
- II. View contacts
- III. Edit contacts
- IV. Search contacts
- V. Delete contacts

II. Literature survey

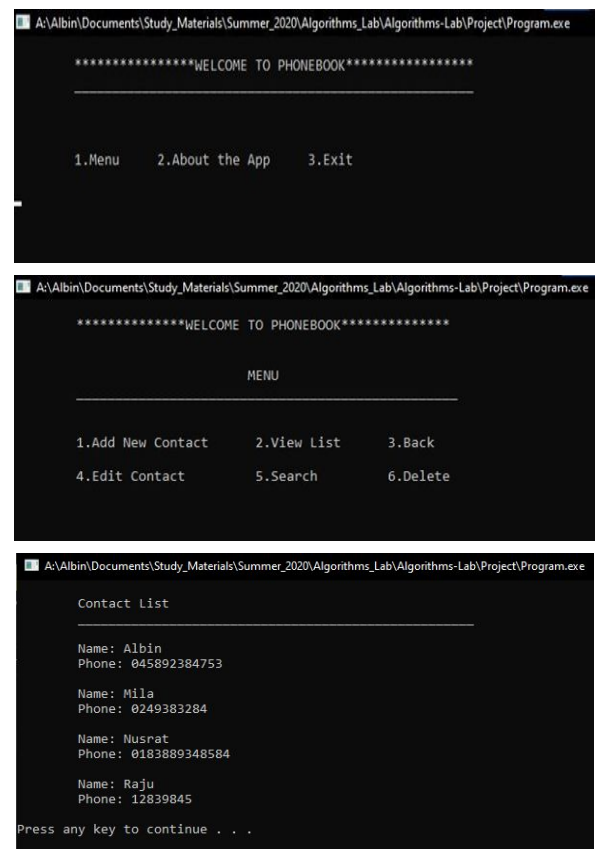
To implement the features we used Selection Sort and Linear Search algorithms in this project. After adding a new contact and after editing any existing contact we sort the phonebook in ascending order using selection sort. In edit, remove and search functions we used Linear Search to find the desired contact.

III. Proposed method

This is a console project written in c++ programming language. To make the operations it takes standard input from the keyboard and shows standard text output to the monitor. We used a vector from STL to store the contacts.

New contacts can be added by inputting the name and phone number. All the contacts added previously can be viewed at a glance by selecting the option 2 from the menu. Menu option 4 is to edit any existing contacts. Contacts can also be searched by typing the name. Unwanted contacts can be deleted by selecting option 6.

IV. Experimental data analysis and results



V. References

1. [Linear Search -Geeksforgeeks](#)
2. [Selection Sort - Geeksforgeeks](#)
3. [Vector in C++ STL - Geeksforgeeks](#)
4. [Console Application - Wikipedia](#)