

Phone Directory Application Documentation

Overview:

The "Phone Directory Application" is a simple program written in C++ that allows users to manage their contacts. Users can perform various operations such as adding, displaying, searching, deleting, and editing contacts.

Features:

1. Add Contact: Users can add new contacts providing details like first name, last name, phone numbers, email, and address.
2. Display Contacts: Users can view all contacts stored in the directory.
3. Search Contacts: Users can search for contacts by entering either their full name or contact number.
4. Delete Contact: Users can delete a contact by providing the full name of the contact.
5. Edit Contact: Users can update the details of an existing contact.
6. Exit: Users can exit the program.

Components:

1. Structures:

- phone Book: Represents the structure of a contact with fields for first name, last name, email, an array for phone numbers, and address.
- Node: Represents a node in the linked list data structure used to store contacts.

2. Class:

- Phone Directory: Implements the phone directory functionality including adding, displaying, searching, deleting, and editing contacts. Uses a linked list to store contacts.

3. Functions:

- print Introduction(): Prints an introduction to the application.
- main(): Entry point of the program. Displays a menu to the user and handles user input for various operations.

Usage:

1. Upon running the program, the user is presented with a menu.
2. The user selects an option from the menu to perform the desired operation.
3. Depending on the selected option, the user may need to provide additional input such as contact details or search queries.
4. The program executes the chosen operation and displays appropriate messages to the user.
5. The user can continue performing operations until choosing to exit the program.

Notes:

- The program uses a linked list to store contacts, providing efficient insertion and deletion operations.
- Contacts are stored persistently in memory until the program terminates.

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Github Repositories link:

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<https://github.com/FarmanAhmad12/Assignment-.git>