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## Telephone Book System



### Project Description

A telephone book system, also known as a telephone directory, telephone address book, or Phone book, is a listing of telephone subscribers in a geographical area or subscribers to services provided by the organization that publishes the directory. Its purpose is to allow the telephone number of a subscriber identified by name and address to be found.

### Project Features

The features of telephone book system are mainly related to adding, listing, searching, sorting, modifying and deleting telephone directory-related records. All these operations are done through **Linked-List**.

The information contained in the telephone directory records are the first name, last name, phone number, city, address, sex and email of the person whose record is entered in the telephone directory system.

### Project Operations

Write a JAVA program that will maintain a phone directory using a **Linked-List**. The program should be able to perform the following operations:

- 1) Add persons details (first name, last name, phone number, city, address, sex and email) to the phone directory, where phone numbers in the directory have to be unique. **(Note: each person record will store in one node in the linked-list and insert each person to the last)**
- 2) Delete any person details by a given phone number.
- 3) Update telephone number by providing person first name.
- 4) Display all details of persons from a phone directory.
- 5) Search telephone number based on person first name. **(Note: use sequential search to find all telephones for the given first name)**
- 6) Sort all persons in the phone directory ascending based on phone number. **(Note: use sorting)**

# Telephone Directory System Project Documentation

**Ensheng Dong**



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