PHONEBOOK APPLICATION PROJECT REPORT

Course: C Programming

Department: School of Computer Science (SoCS)

College: UPES

Year: 1

Abstract

This project presents a Phonebook Application developed in C. It allows users to add, search, update,

delete, and display contacts, demonstrating the use of structures, functions, and file handling.

Problem Definition

Managing contact information manually becomes inefficient as the data grows. The objective is to develop

a digital phonebook system that efficiently stores and retrieves contact details.

System Design

The system follows a modular design using separate source files, header files, and menu-driven logic.

The flowchart below represents the overall program flow.

Start

Show Menu

User Choice?

Perform Action

Return to Menu

End

Implementation Details

• Structures are used to store contact details.

• Functions provide modularity and cleaner code.

• File handling may be used for storing data permanently.

• The entire application is menu-driven for user-friendly operation.

Testing & Results

The application was tested with different types of inputs. All core operations such as add, search,

display, and delete worked as expected.

Conclusion & Future Work

The project successfully demonstrates fundamental C programming concepts. Future enhancements may include:

GUI interface, sorting features, cloud backup, and stronger data validation.

References

• Let Us C – Yashavant Kanetkar

• C Programming Documentation

• Classroom Notes