Project Report Card

Project Title:

Contact Management System

Language Used:

C Programming

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1. Introduction:

The Contact Management System is a simple console-based C program that helps users to store, view, search, and delete contact details such as name, phone number, and email address. This project is built to practice file handling, structures, and basic CRUD (Create, Read, Update, Delete) operations in C.

2. Objective:

- To develop a simple and efficient system to manage contact information.

- To practice file operations and structured programming in C language.

- To provide users with an easy way to store and retrieve contacts.

3. Features:

- Add a new contact

- View all contacts

- Search for a contact by name

- Edit a contact

- Delete a contact

- Store data permanently using file handling

4. Tools and Technologies Used:

- Programming Language: C

- Compiler: GCC / Turbo C / Code::Blocks

- Platform: Windows/Linux

5. Working:

- The user interacts through a simple text-based menu.

- All contacts are saved into a file (like contacts.dat) for permanent storage.

- Searching and editing is done by reading from and rewriting to the file.

6. Modules:

- Add Contact Module: Takes user input and saves new contact data.

- View Contacts Module: Reads all saved contacts and displays them.

- Search Contact Module: Searches for a contact by name.

- Delete Contact Module: Deletes a specific contact by modifying the file contents.

- Edit Contact Module: Allows updating the details of an existing contact.

7. Advantages:

- Easy to use

- Lightweight application

- Good practice of file handling and structure in C

8. Limitations:

- No GUI, only console-based

- No password protection for the contact list

- Limited error handling (based on user inputs)

9. Future Enhancements:

- Add GUI using graphics libraries or shift to a web-based application.

- Add encryption to secure contacts.

- Allow importing/exporting contacts in CSV or other formats.

10. Conclusion:

This project helped in understanding the concepts of structures, file handling, and basic data management using C. It served as a strong foundation for developing larger database-related applications.

(Signature/Name)

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