CONTACTS MANAGEMENT SYSTEM

-Capstone Project

i. Motivation: Why did you choose the project?

ii. Important Highlights of the project.

iii. What did you learn from this exercise? Concepts that you explored and implemented outside of your comfort zone.

iv. Areas of improvement: What things you could have improved on provided more time/experience?

v. Future Scope: How do you foresee this project being useful in the future?

vi. A detailed report on the contribution of each member to the project.

i. Motivation: Why did you choose the project?

The Contacts Management System project was chosen because it is a useful and practical application of programming concepts, especially in the context of database management. Many people in today's world have a significant number of contacts, whether it be for personal or professional purposes. Therefore, an efficient system that allows users to store and manage their contacts is highly sought after, particularly in businesses. This project offered an opportunity to design and implement a system that met these needs while also refining my skills in programming, specifically in the C language.

ii.   Important highlights the project.

=> **User-friendly interface:** The system provides a user-friendly interface for users to store and manage their contacts. Users can input and search for contacts using different criteria such as name, phone number, email, and address.

=> **Data storage:** The system stores the contact data in a file, allowing users to save their data and retrieve it later. The data is organized into fields such as name, phone number, email, and address, making it easy for users to identify and manage the contacts.

=> **Data validation:** The system performs data validation to ensure that the user inputs valid information. For example, it checks if the phone number is valid or not.

=> **Search functionality:** The system includes search functionality that allows users to search for contacts using different criteria. For example, users can search for contacts based on their names or phone numbers.

=> **Edit contact:** The system includes edit functionality that allows users to edit contacts. For example, users can edit contact name, phone number, email by entering name of contact.

=> **Delete contact:** The system includes edit functionality that allows users to delete   contacts. For example, users can delete contact by entering name of contact.

iii. What did you learn from this exercise? Concepts that you explored and implemented outside of your comfort zone.
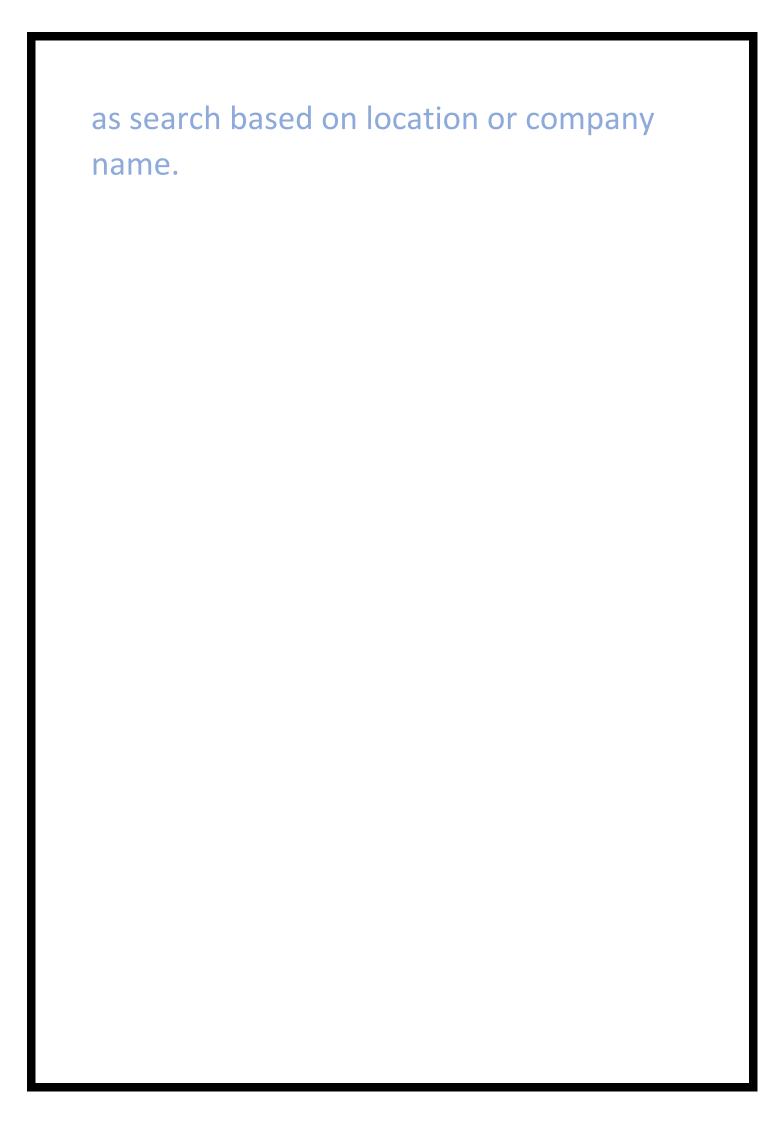
We learnt how to use multiple loops.

And also learnt how to store phone number. All of we think that phone number contains digits so it can be stored in integers, but phone number cannot be stored in int data type.

We should use unsigned long long to store the phone numbers. If we are using this unsigned long long in our program means we will be getting some compilation errors. So, to ignore those all we use strings to store phone numbers.

iv. Areas of improvement: What things you could have improved on provided more time/experience?

If we were given some more time for this project we could develop the code to some extent. For example, when we enter the details of contact it should ask us to which category we should assign this contact like family, friends, college mates, school mates, office , colleagues, neighbours, etc. and these will be printed out in the view function. Also we would develop like phone numbers starting with digit '9' print first after that phone number starting with digit '8' like that.

v. Future Scope: How do you foresee this project being useful in future?

=> **Increased productivity:** A well organized contact management system can save valuable time by providing quick access to essential information.

=> **Expansion to multiple platforms:** The current project is designed to work on Desktops. However, in the future, the project can be expanded to work on multiple platforms to make it accessible to a wider range of users who might not have access to Desktops.

=> **Advanced search and sorting capabilities:** The current project offers basic search capabilities. However, in the future, the project can be upgraded to provide advanced search capabilities, such

as search based on location or company name.

vi. A detailed report on the contribution of each member to the project.

1. ARAVIND:
   ⇨ Demo video credit.
   ⇨ Implementation of find function.
   ⇨ Using multiple functions.

2. KEERTHI:
   ⇨ Main function declaration.
   ⇨ Implemenation of add function.

3. JASWANTH:
   ⇨ Implementation of menu function continuously until the user exit or contact list limit crossed.
   ⇨ Implementation of view function.

4. LOKESH:
   ⇨ Assigning one structure values to another structure
   ⇨ Implementation of edit function.

5. VIVEK VARDHAN:
   ⇨ Implementation of delete function.
   ⇨ Using string handling functions.

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PROJECT REPORT ON

CONTACTS MANAGEMENT SYSTEM

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