CONTACT MANAGEMENT SYSTEM

# Research

Contact management systems are software solutions designed to help in contact information storage, management, and retrieval for individuals and organizations. With regard to effective personal networking, customer relationship management (CRM), or business, the significance of the contact management system cannot be overemphasized. A contact management system is one of the most important tools intended to manage personal and professional relationships. The code example shows important functionality and considerations in implementing such a system. If this has been done accordingly, there is a limitation or added with more advanced features, then the developers can create more powerful and user-friendly a0pplications.

# aNALYSIS

The contact management system illustrated in the code is a good basis for contact management using the command line. Its major drawbacks include the fixed size and the fact that email addresses are not fully validated at input time. It could eventually grow into a much more powerful and user-friendly application for meeting the demands of different users, since it would make provision for enhanced programming techniques and additional features, The contact management system analysis summarizes its strengths and weaknesses in terms of areas which may be further developed and optimized for better future use.

# Ideate

This code will form a contact management system where the user is able to store and manage personal or professional contact information through a simple command-line interface. **For** **Example**,1) A small business owner can use the system to keep track of his client's details, such as adding names and emails of his clients, finding out a specific client, or deleting contacts as relationships end. Similarly, 2) An individual planning a massive event, such as a wedding, can employ the system to arrange all the vendor's information, including flower girls, caterers, and venues, so that they have easy access to the information at any given time. Through its enabling capabilities in organizing contact information, the code will enhance a person's productivity and enable them to maintain all the vital relationships they have in their personal lives or work stations.

# Build of the code

# TESTing

Adopt this testing plan, thus follow the system systematically to test the functionality and robustness of the contact management system. Keep track of each test case and their actual outputs, actual output along with the discrepancy with the expected output in order that it satisfies the requirements and works adequately in real scenarios. If problems are found during testing then fix it appropriately, modify the code.

# Implement

The provided code for the contact management system allows users to manage their contacts through a straightforward command-line interface. Users can add new contacts by entering their first name, last name, and email address, with checks in place to prevent duplicate emails and ensure valid email formats. The system also lets users display all stored contacts, search for a specific contact by email, and delete contacts when necessary. The design uses a simple array to store contact information and modular functions to handle each task, making it easy to follow and maintain. Overall, this implementation provides a basic yet functional tool for organizing contact information effectively.

**GITHUB LINK-**

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