Mini Phonebook Project

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# About Project

The project is a simple Contact Management System developed in Java. It simply allows users to create, retrieve, and manage contact information including name, phone number, and email address.

# Features

## Contact Creation

Users can create a new contact by providing a name, phone number, and email address. The system validates the email address to ensure it is in a valid format.

## Contact Retrieval

Users can retrieve contact information by using the getName(), getPhoneNumber(), and getEmail() methods.

## Email Validation

The system includes a method for validating email addresses to ensure they are in a valid format.

# Project classes

## Contact Class

This class encapsulates the name, phone number and email address of a contact and provides getter methods for each field. It also overrides the toString() method to provide a string representation of the contact, which can be useful for debugging and logging purposes.

The Contact class represents a single contact in the Contact Management System. It contains the following fields:

* name: A string representing the name of the contact.
* phoneNumber: A string representing the phone number of the contact.
* email: A string representing the email address of the contact.

## MobilePhone class

Contact Creation: Users can create a new contact by providing a name, phone number, and email address. The system validates the email address to ensure it is in a valid format.

Contact Retrieval: Users can retrieve contact information by using the getName(), getPhoneNumber(), and getEmail() methods.

Email Validation: The system includes a method for validating email addresses to ensure they are in a valid format.

Class Documentation:

Contact

The Contact class represents a single contact in the Contact Management System. It contains the following fields:

name: A string representing the name of the contact.

phoneNumber: A string representing the phone number of the contact.

email: A string representing the email address of the contact.

The Contact class contains the following methods:

public Contact(String name, String phoneNumber, String email): The constructor for the Contact class. It takes a name, phone number, and email address as input and creates a new Contact object.

public String getName(): A method that returns the name of the contact.

public String getPhoneNumber(): A method that returns the phone number of the contact.

public String getEmail(): A method that returns the email address of the contact.

private static boolean isValidEmail(String email): A private method that validates the format of an email address.

public String toString(): A method that returns a string representation of the Contact object.

Conclusion:

The Contact Management System is a simple and easy-to-use system for managing contact information. It includes validation for email addresses to ensure that they are in a valid format. The system can be extended to include additional features such as contact sorting, searching, and deletion.