-------------- KYC PROJECT ------------

**Java concepts being used in the project:**

* Object oriented programming
* Data structures such as Switch-case, Array-list, Strings and so on.
* Classes and Objects in java

Implementation of KYC PROJECT in Java:

To Start with the implementation part, we have to create a class Operations.

Then create a list Contact to store the information about the Customer.

1. New Customer enrolment (Insert/Add) Operation:

For implementing the New customer enrolment (insert/add) operation, get the Customer details from the user Such as Customer name, Email, Phone-number, Address.

Once the user gives the details, insert the details to the contact list using **add** function in the collections.

1. Customer Search operation:

For Search operation, we are using **Iterator** in collections. And traverse through each record to find the details we want after finding the details we require it is displayed in the output console to the user.

1. Customer Delete operation:

Delete operation is performed by using the **remove method** in collections. We iterate through the details to find the record which we want to remove, then if the element to delete is found, then if the element to delete is found, perform the remove operation to operation to delete that detail permanently from the customer details.

1. Customer Display:

To Display the Customer-details we have to iterate through the details of the customer stored in the list for this operator, we are using **Iterator** in collections.

COMPLETE CODE FOR KYC PROJECT IN Implement OOPS using JAVA with Data-Structures and Beyond:

**CUSTOMER.JAVA**

**package** Customer;

**import** java.util.Scanner;

**import** java.util.List;

**import** java.util.ArrayList;

**import** java.util.Iterator;

**public** **class** Customer {

**public** **static** **void** main(String[] args) {

List<Contact> c = **new** ArrayList<Contact>();

Scanner s = **new** Scanner(System.***in***) ;

Scanner s1 = **new** Scanner(System.***in***);

**int** option;

**do** {

System.***out***.println("-------" + "Welcome to KYC Project" + "-------");

System.***out***.println("Enter your Choice : \n");

System.***out***.println("1.Display Customer Registered\n");

System.***out***.println("2.Business operation\n");

System.***out***.println("5.Exist\n");

option = s.nextInt();

**switch**(option) {

**case** 1:

Iterator<Contact> i = c.iterator();

**while**(i.hasNext()){

Contact e = i.next();

System.***out***.println(e);

}

**break**;

**case** 2:

**int** ch = 0;

**do** {

System.***out***.println("1.New Enrollment");

System.***out***.println("2.Search Customer");

System.***out***.println("3.Delete Customer");

System.***out***.println("4. exit");

System.***out***.println("Enter you choice: ");

ch= s.nextInt();

**switch**(ch) {

**case** 1:

System.***out***.println("Enter Customer name: ");

String customerName = s1.nextLine();

System.***out***.println("Enter Email: ");

String email = s1.nextLine();

System.***out***.println("Enter PhoneNumber: ");

String phoneNumber = s1.nextLine();

System.***out***.println("Enter Address: ");

String address = s1.nextLine();

c.add(**new** Contact(customerName,email,phoneNumber,address));

System.***out***.println("Record inserted Sucessfully");

**break**;

**case** 2:

**boolean** found= **false**;

System.***out***.println("Enter customer name to Search: ");

String customerName1 = s1.nextLine();

Iterator<Contact> it=c.iterator();

**while**(it.hasNext()) {

Contact e = it.next();

System.***out***.println(e.getCustomerName());

**if**(e.getCustomerName().equals(customerName1)) {

System.***out***.println(e);

found=**true**;

}

}

**if**(!found) {

System.***out***.println("Record Not Found");

}

**else** {

System.***out***.println("record found");

}

**break**;

**case** 3:

**boolean** found1 = **false**;

System.***out***.println("Enter customer name to Delete: ");

String customerName2 = s1.nextLine();

Iterator<Contact> i1=c.iterator();

**while**(i1.hasNext()) {

Contact e = i1.next();

**if**(e.getCustomerName().equals(customerName2)) {

i1.remove();

found1=**true**;

}

}

**if**(!found1) {

System.***out***.println("Record Not Found");

}**else** {

System.***out***.println("Record is Deleted.");

}

**break**;

**case** 4:ch =0;

**break**;

}

}**while**(ch!=0);

**break**;

**case** 5: option =0;

**break**;

}

}**while**(option!=0);

s.close();

s1.close();

}

}

**CONTACT.JAVA**

**package** Customer;

**public** **class** Contact {

**public** String customerName;

**public** String email;

**public** String phoneNumber;

**public** String address;

**public** Contact(String customerName, String email, String phoneNumber, String address) {

**this**.customerName = customerName;

**this**.email = email;

**this**.phoneNumber = phoneNumber;

**this**.address = address;

}

**public** String getCustomerName() {

**return** customerName;

}

**public** **void** setCustomerName(String customerName) {

**this**.customerName = customerName;

}

**public** String getEmail() {

**return** email;

}

**public** **void** setEmail(String email) {

**this**.email = email;

}

**public** String getPhoneNumber() {

**return** phoneNumber;

}

**public** **void** setPhoneNumber(String phoneNumber) {

**this**.phoneNumber = phoneNumber;

}

**public** String getAddress() {

**return** address;

}

**public** **void** setAddress(String address) {

**this**.address = address;

}

@Override

**public** String toString() {

**return** customerName + " " + email +" " + phoneNumber + " " + address ;

}

}

Thank you

Regards

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