**Assignment no 1 :- Customer management system**

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**Code:-**

#include <iostream>

#include <string>

using namespace std;

class Customer

{

private:

string name, email, phone;

public:

void add\_cust()

{

cout << "Enter customer Name: ";

cin >> name;

cout << "Enter customer Email: ";

cin >> email;

cout << "Enter customer Phone no.: ";

cin >> phone;

}

void display\_cust()

{

cout << "Name: " << name << "\nEmail: " << email << "\nPhone no.: " << phone << endl;

}

void update\_cust()

{

cout << "Update customer Name: ";

cin >> name;

cout << "Update customer Email: ";

cin >> email;

cout << "Update customer Phone no.: ";

cin >> phone;

}

};

void remove\_cust(Customer s[], int &size, int id)

{

if (id < 0 || id >= size)

{

cout << "Invalid customer id." << endl;

return;

}

for (int i = id; i < size - 1; i++)

{

s[i] = s[i + 1];

}

size--;

}

int main()

{

int MAX\_CUST = 1000;

Customer cust[MAX\_CUST];

int size = 0;

while (true)

{

cout << "\nMenu:\n";

cout << "1. Add customer\n";

cout << "2. Update customer\n";

cout << "3. Remove customer\n";

cout << "4. Display customer data\n";

cout << "5. Display all customer data\n";

cout << "6. Exit\n";

int choice;

cin >> choice;

switch (choice)

{

case 1:

if (size < MAX\_CUST)

{

int id = size;

cust[id].add\_cust();

cout << "------------------------------\nCustomer Data Saved As: \nCust\_id: " + to\_string(id) << endl;

cust[id].display\_cust();

size++;

}

else

{

MAX\_CUST++;

}

break;

case 2:

cout << "Enter customer id: ";

int updateId;

cin >> updateId;

if (updateId >= 0 && updateId < size)

{

cust[updateId].update\_cust();

}

else

{

cout << "Invalid customer id." << endl;

}

break;

case 3:

cout << "Enter customer id to remove: ";

int removeId;

cin >> removeId;

remove\_cust(cust, size, removeId);

break;

case 4:

cout << "Enter customer id to Display: ";

int displayId;

cin >> displayId;

if (displayId >= 0 && displayId < size)

{

cust[displayId].display\_cust();

}

else

{

cout << "Invalid customer id." << endl;

}

break;

case 5:

for (int i = 0; i < size; i++)

{

cout << "Cust\_id: " << i << ":" << endl;

cust[i].display\_cust();

cout << "-----------------------" << endl;

}

break;

case 6:

return 0;

default:

cout << "Invalid choice. Try again." << endl;

}

}

return 0;

}

**Output:-**

Menu:

1. Add customer

2. Update customer

3. Remove customer

4. Display customer data

5. Display all customer data

6. Exit

1

Enter customer Name: Sam

Enter customer Email: sam@abc.com

Enter customer Phone no.: 3453455344

------------------------------

Customer Data Saved As:

Cust\_id: 0

Name: Sam

Email: sam@abc.com

Phone no.: 3453455344

Menu:

1. Add customer

2. Update customer

3. Remove customer

4. Display customer data

5. Display all customer data

6. Exit

1

Enter customer Name: Jack

Enter customer Email: jack@dcd.com

Enter customer Phone no.: 9879878979

------------------------------

Customer Data Saved As:

Cust\_id: 1

Name: Jack

Email: jack@dcd.com

Phone no.: 9879878979

Menu:

1. Add customer

2. Update customer

3. Remove customer

4. Display customer data

5. Display all customer data

6. Exit

4

Enter customer id: 1

Name: Jack

Email: jack@dcd.com

Phone no.: 9879878979

Menu:

1. Add customer

2. Update customer

3. Remove customer

4. Display customer data

5. Display all customer data

6. Exit

5

Cust\_id: 0:

Name: Sam

Email: sam@abc.com

Phone no.: 3453455344

-----------------------

Cust\_id: 1:

Name: Jack

Email: jack@dcd.com

Phone no.: 9879878979

-----------------------

Menu:

1. Add customer

2. Update customer

3. Remove customer

4. Display customer data

5. Display all customer data

6. Exit

3

Enter customer id to remove: 0

Menu:

1. Add customer

2. Update customer

3. Remove customer

4. Display customer data

5. Display all customer data

6. Exit

5

Cust\_id: 0:

Name: Jack

Email: jack@dcd.com

Phone no.: 9879878979

-----------------------

Menu:

1. Add customer

2. Update customer

3. Remove customer

4. Display customer data

5. Display all customer data

6. Exit

2

Enter customer id: 0

Update customer Name: gsf

Update customer Email: ssfd

Update customer Phone no.: 234

Menu:

1. Add customer

2. Update customer

3. Remove customer

4. Display customer data

5. Display all customer data

6. Exit

5

Cust\_id: 0:

Name: gsf

Email: ssfd

Phone no.: 234

-----------------------

Menu:

1. Add customer

2. Update customer

3. Remove customer

4. Display customer data

5. Display all customer data

6. Exit