

# **DOTNET ASSIGNMENT**

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ROLL NO :27

Design and implement a Windows Forms desktop application that serves as a "Simple Contact Manager". The application should allow users to add, view, and manage a list of contacts with the following features:

## **1. User Interface Elements:**

- o TextBoxes for entering the contact's Name, Email, and Phone Number.
- o RadioButtons for selecting the contact's Gender (Male, Female, Other).
- o CheckBox to indicate if the contact is a Favorite.
- o ComboBox for selecting the contact's Country from a predefined list.
- o Button to Add the contact to the list.
- o ListView to display the list of added contacts with columns for Name, Email, Phone Number, Gender, Favorite status, and Country.
- o TabControl with two tabs: one for Contact Entry and another for Contact List.
- o GroupBox to organize the input fields and labels for better UI structure.
- o Context Menu for the ListView to provide options like Edit, Delete, and Mark as Favorite.

## **2. Functionality:**

- o Implement event handling for the Add button to validate inputs and add the contact to the ListView.
- o Enable context menu actions to allow users to edit or delete existing contacts from the ListView.
- o Provide the ability to filter the displayed contacts based on the Favorite status.

## CODE :

```
namespace Simple_Contact_Manager
{
    public partial class Form1 : Form
    {

        public Form1()
        {
            InitializeComponent();
            editToolStripMenuItem.Click += EditToolStripMenuItem_Click;
            deleteToolStripMenuItem.Click += DeleteToolStripMenuItem_Click;
            markAsFavouriteToolStripMenuItem.Click += MarkAsFavouriteToolStripMenuItem_Click;

            listView1.MouseDown += listView1_MouseDown;

            // Context menu items
            contextMenuStrip1.Items.AddRange(new ToolStripItem[]
            {
                editToolStripMenuItem,
                deleteToolStripMenuItem,
                markAsFavouriteToolStripMenuItem
            });
            listView1.ContextMenuStrip = contextMenuStrip1;
        }

        private void listView1_MouseDown(object sender, MouseEventArgs e)
        {
            if (e.Button == MouseButtons.Right)
            {
                {
                    var hitTestInfo = listView1.HitTest(e.Location);
                    if (hitTestInfo.Item != null)
                    {
                        hitTestInfo.Item.Selected = true;
                    }
                }
            }
        }
        private void groupBox1_Enter(object sender, EventArgs e)
        {

        }
    }
}
```

```

private void radioButton1_CheckedChanged(object sender, EventArgs e)
{

}

private void label3_Click(object sender, EventArgs e)
{

}

private void contextMenuStrip1_Opening(object sender,
System.ComponentModel.CancelEventArgs e)
{

}

private void Form1_Load(object sender, EventArgs e)
{

}

private void textBox1_TextChanged(object sender, EventArgs e)
{

}

private void button1_Click(object sender, EventArgs e)
{
    if (string.IsNullOrEmpty(textBox1.Text) || string.IsNullOrEmpty(textBox2.Text) ||
string.IsNullOrEmpty(textBox3.Text) || comboBox1.SelectedIndex == -1)
    {
        MessageBox.Show("Please fill in all fields.");
        return;
    }
    string gender = radioButton1.Checked ? "Male" : radioButton2.Checked ? "Female" :
"Other";

    // Create new ListViewItem
    ListViewItem item = new ListViewItem(textBox1.Text);
    item.SubItems.Add(textBox2.Text);
    item.SubItems.Add(textBox3.Text);
    item.SubItems.Add(gender);
    item.SubItems.Add(checkBox1.Checked ? "Yes" : "No");
    item.SubItems.Add(comboBox1.SelectedItem.ToString());
}

```

```

// Add item to ListView
listView1.Items.Add(item);

// Clear input fields
textBox1.Clear();
textBox2.Clear();
textBox3.Clear();
radioButton1.Checked = false;
radioButton2.Checked = false;
radioButton3.Checked = false;
checkBox1.Checked = false;
comboBox1.SelectedIndex = -1;

}

private void EditToolStripMenuItem_Click(object sender, EventArgs e)
{
    if (listView1.SelectedItems.Count == 0) return;
    ListViewItem selectedItem = listView1.SelectedItems[0];

    // Fill input fields with selected item data
    textBox1.Text = selectedItem.SubItems[0].Text;
    textBox2.Text = selectedItem.SubItems[1].Text;
    textBox3.Text = selectedItem.SubItems[2].Text;
    switch (selectedItem.SubItems[3].Text)
    {
        case "Male":
            radioButton1.Checked = true;
            break;
        case "Female":
            radioButton2.Checked = true;
            break;
        case "Other":
            radioButton3.Checked = true;
            break;
    }
    checkBox1.Checked = selectedItem.SubItems[4].Text == "Yes";
    comboBox1.SelectedItem = selectedItem.SubItems[5].Text;

    // Remove selected item from ListView
    listView1.Items.Remove(selectedItem);
}

```

```

private void DeleteToolStripMenuItem_Click(object sender, EventArgs e)
{
    if (listView1.SelectedItems.Count == 0) return;
    listView1.Items.Remove(listView1.SelectedItems[0]);
}

private void MarkAsFavouriteToolStripMenuItem_Click(object sender, EventArgs e)
{
    if (listView1.SelectedItems.Count == 0) return;
    ListViewItem selectedItem = listView1.SelectedItems[0];
    selectedItem.SubItems[4].Text = "Yes";
}

private void FilterFavorites()
{
    var itemsToRemove = new List<ListViewItem>();

    // Collect items to remove
    foreach (ListViewItem item in listView1.Items)
    {
        if (item.SubItems[4].Text != "Yes")
        {
            itemsToRemove.Add(item);
        }
    }

    // Remove collected items
    foreach (var item in itemsToRemove)
    {
        listView1.Items.Remove(item);
    }
}

private void textBox2_TextChanged(object sender, EventArgs e)
{
}

private void textBox3_TextChanged(object sender, EventArgs e)
{
}

private void radioButton1_CheckedChanged_1(object sender, EventArgs e)
{
}

```

```
}

private void radioButton2_CheckedChanged(object sender, EventArgs e)
{

}

private void radioButton3_CheckedChanged(object sender, EventArgs e)
{

}

private void checkBox1_CheckedChanged(object sender, EventArgs e)
{

}

private void comboBox1_SelectedIndexChanged(object sender, EventArgs e)
{

}
}
}
```

**OUTPUT :**

## FIRST SCREEN – CONTACT ENTRY :

Form1

Contact Entry Contact List

grpContactDetails

Name

Email

Phone no

Gender ☐ Male ☐ Female ☐ Other

Favourite ☐ favourite

Country

Add Contact

## SECOND SCREEN – CONTACT LIST :

Form1

Contact Entry Contact List

Name	Email	Phone no	Gender	Favourite	Country
Khadeeja	kaija@g...	8762345098	Female	Yes	India
Faris	faris@gm...	9823459876	Male	Yes	Us
Sahala	sahala@...	8234123456	Female	No	Canada

## WHEN CLICK ON EDIT : (EDIT SAHALA )

Form1

Contact Entry Contact List

grpContactDetails

Name Sahala

Email sahala@gmail.cor

Phone no 8234123456

Gender ☐ Male ☒ Female ☐ Other

Favourite ☐ favourite

Country Canada

Add Contact

## AFTER EDITING : (UPDATED- COUNTRY & EMAIL FOR SAHALA)

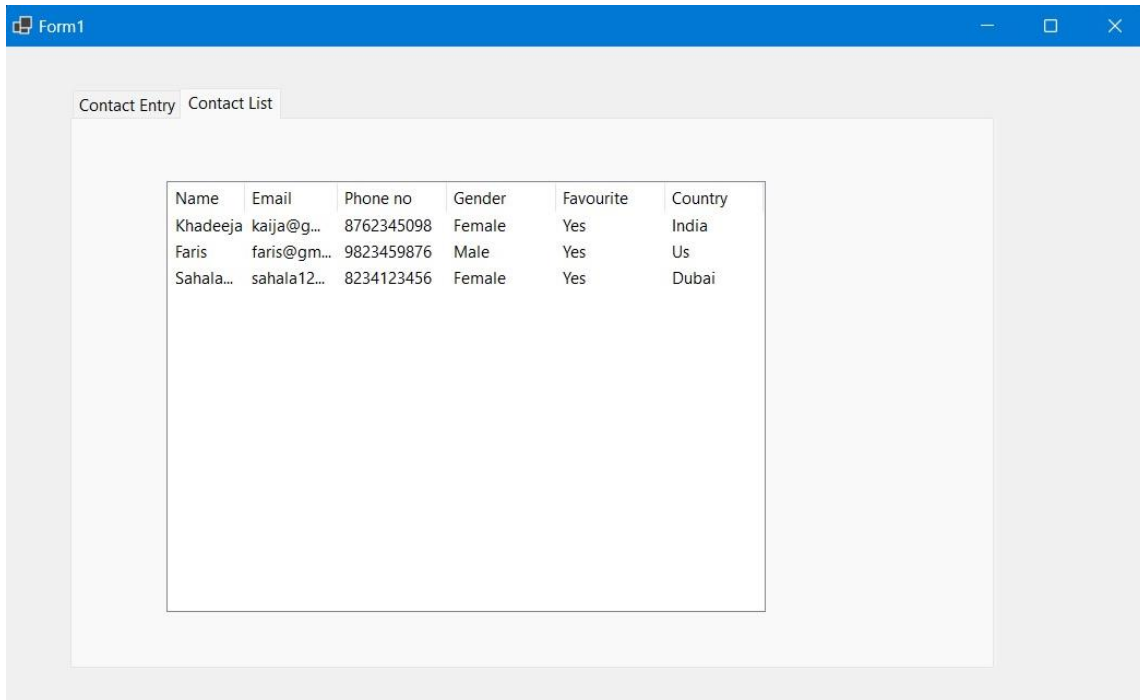
Form1

Contact Entry Contact List

Name	Email	Phone no	Gender	Favourite	Country
Khadeeja	kaija@g...	8762345098	Female	Yes	India
Faris	faris@gm...	9823459876	Male	Yes	Us
Sahala...	sahala12...	8234123456	Female	No	Dubai



## MARK AS FAVOURITE: (NO CHANGES TO YES FOR SAHALA)

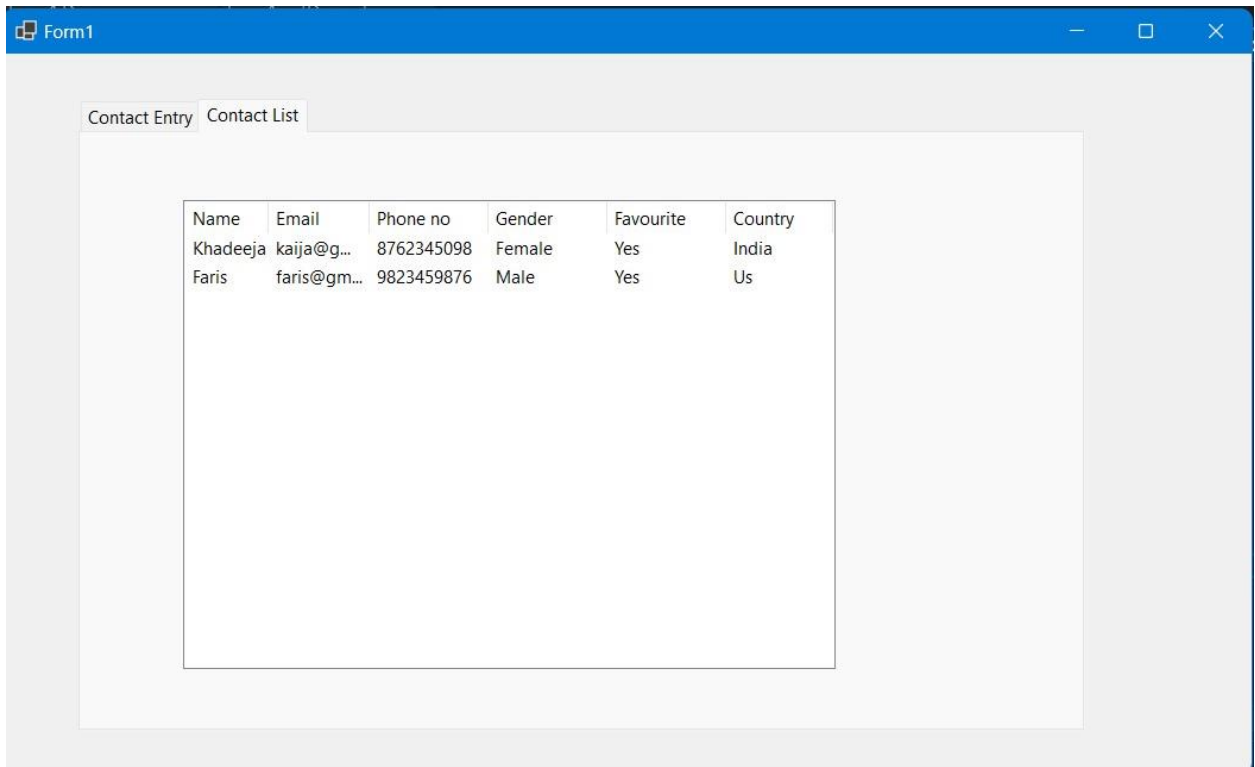


Form1

Contact Entry Contact List

Name	Email	Phone no	Gender	Favourite	Country
Khadeeja	kaija@g...	8762345098	Female	Yes	India
Faris	faris@gm...	9823459876	Male	Yes	Us
Sahala...	sahala12...	8234123456	Female	Yes	Dubai

## AFTER DELETING : (SAHALA IS DELETED)



Form1

Contact Entry Contact List

Name	Email	Phone no	Gender	Favourite	Country
Khadeeja	kaija@g...	8762345098	Female	Yes	India
Faris	faris@gm...	9823459876	Male	Yes	Us