

Angular Assignment on Nested Forms

Design Angular application dynamic form for the given scenario

- A company decides to issue a form to collect data from users.
- The users should add all the cities in which they have lived, so the users should be able to create a text box dynamically for each city they add.
- Within the Cities, the users may have multiple address lines, so the users should also be able to add new text boxes for the address lines dynamically.
- Here Cities itself is a form array, and, within that form array, the address is nested form array.
- Use form arrays where ever needed. Loop them up till user keep clicking on Add buttons.
- You should able to remove a city and all its addresses, or Particular Address line of a city.
- Example, consider following scenario to add City and Addresses multiple times using Array structure

```
data = {  
  cities: [  
    {  
      city: "",  
      addressLines: [  
        { addressLine: "" }  
      ]  
    }  
  ]  
}
```

Here, **the city** is an array and the **addressLines** is the array within the Cities array.

Your form group would look like below

```
this.myForm = this.fb.group({  
  name: [''],  
  cities: this.fb.array([])  
})
```

Final output of form should be like following

User Form

Name

Praveen Reddy

Add New City

City 1:

Remove City

City

London

Add New Address Line

Address Line 1

Briarwood Close,Lower F

Remove Address Line

Address Line 2

TW134QL

Remove Address Line

City 2:

Remove City

City

Hyderabad

Add New Address Line

Address Line 1

House No: 45-12/A1

Remove Address Line

Address Line 2

Road number 14

Remove Address Line

Address Line 3

Kaveri hills

Remove Address Line

Address Line 4

Madhapur

Remove Address Line

Submit

Cancel

Once Submit button is clicked, following JSON gets generated

```
{
  "name": "Praveen Reddy",
  "cities": [
    {
      "city": "London",
      "addressLines": [
        {
          "addressLine": "Briarwood Close,Lower Feltham"
        },
        {
          "addressLine": "TW134QL"
        }
      ]
    }
  ]
}
```

```
},
{
  "city": "Hyderabad",
  "addressLines": [
    {
      "addressLine": "House No: 45-12/A1"
    },
    {
      "addressLine": "Road number 14"
    },
    {
      "addressLine": "Kaveri hills"
    },
    {
      "addressLine": "Madhapur"
    }
  ]
}
]
```

Use Reactive forms for this assignment. Form validation is not required.
When user clicks on Cancel button, hide the form. You may use bootstrap5 CSS for this assignment for better formatting. CSS format is not important. Implement business scenario.