



# Angular 5 CT Specialization

## Angular Material Lab 17

January 2019

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## Document Control

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Earlier versions	



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## Adding simple forms validation using *Angular Reactive Forms*

1. Open **contact-manager.module.ts** file & add the following import statement:

```
import {ReactiveFormsModule} from '@angular/forms';
```

2. Add this to the **imports** array of the **NgModule** decorator as well.

3. Open **add-dialog.component.ts** file & add the following import statement:

```
import {FormControl, Validators} from '@angular/forms';
```

4. Add the following inside the **AddContactDialogComponent** class:

```
name = new FormControl('',Validators.required);
bio = new FormControl('',Validators.required);
avatar = new FormControl('', Validators.required);
```

5. Add the following methods inside the **AddContactDialogComponent** class:

```
public GetNameErrorMessage() : string
{
    return this.name.hasError('required') ? "Name must be entered" : '';
}

public GetBioErrorMessage() : string
{
    return this.bio.hasError('required') ? "Bio information is required"
        : '';
}

public GetAvatarErrorMessage() : string
{
    return this.avatar.hasError('required') ?
        "Please select an avatar icon" : '';
}
```

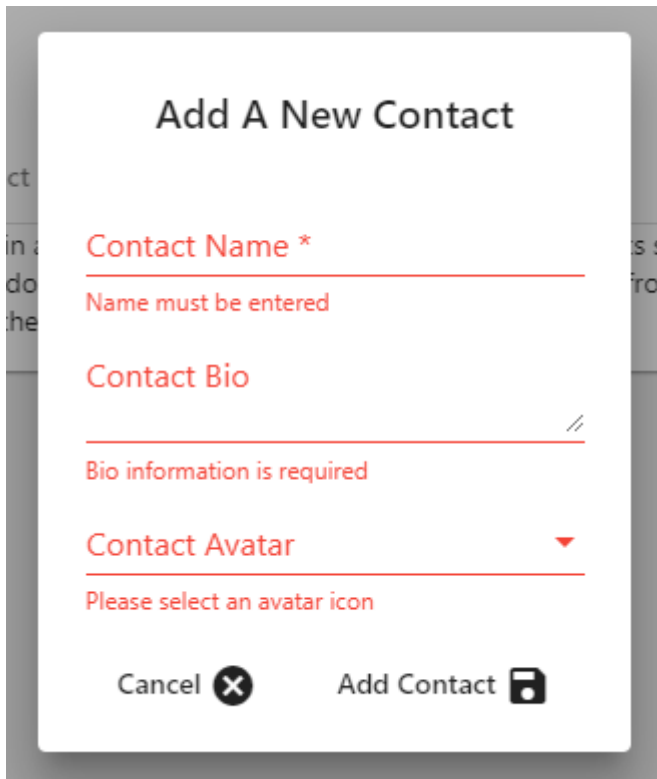
6. Open **add-contact-dialog.component.html** file & add the following attributes to the **<input>**, **<textarea>** & **<mat-select>** elements inside each **<mat-form-field>** element respectively:

```
[formControl]="name"
[formControl]="bio"
[formControl]="avatar"
```

7. Add a **<mat-error>** element below each input element respectively:

```
<mat-error>{{GetNameErrorMessage()}}</mat-error>
<mat-error>{{GetBioErrorMessage()}}</mat-error>
<mat-error>{{GetAvatarErrorMessage()}}</mat-error>
```

8. The dialog box must now display validation errors if data has not been entered/selected in the form fields as shown below:



The screenshot shows a modal dialog box titled "Add A New Contact". It contains three form fields, each with a red validation error message below it:

- Contact Name \***: The error message is "Name must be entered".
- Contact Bio**: The error message is "Bio information is required".
- Contact Avatar**: The error message is "Please select an avatar icon".

At the bottom of the dialog, there are two buttons: "Cancel" with a close icon (X) and "Add Contact" with a save icon (floppy disk).