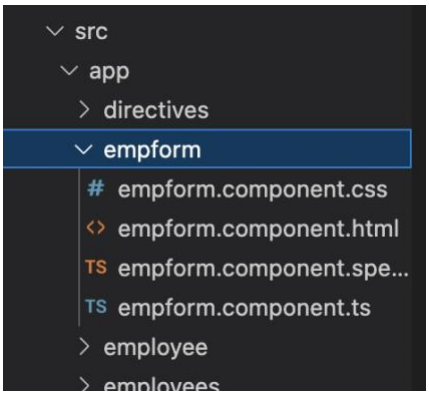
STEP 11: Template Driven Forms

1. Add empform component from within the angulardemo folder as follows:
   ng g c empform

```
TERMINAL   JUPYTER   PROBLEMS   OUTPUT   DEBUG CONSOLE                    bash - angulardemo
(base) Manishs-MacBook-Pro:angulardemo Shalini$ ng g c empform
Node.js version v17.5.0 detected.
Odd numbered Node.js versions will not enter LTS status and should not be used for production. For more information, p
lease see https://nodejs.org/en/about/releases/.
CREATE src/app/empform/empform.component.css (0 bytes)
CREATE src/app/empform/empform.component.html (22 bytes)
CREATE src/app/empform/empform.component.spec.ts (606 bytes)
CREATE src/app/empform/empform.component.ts (279 bytes)
UPDATE src/app/app.module.ts (1384 bytes)
(base) Manishs-MacBook-Pro:angulardemo Shalini$
```



2. Add an employee property in employee.component.ts file:
   emp ={ename:''}

3. Add the below code in employee.component.html file:
   <form>
   <input type="text" class="form-control" required/>
   </form>

4. Add the following on the form tag :

   {{empform.value | json}}
   <form #empform ="ngForm">
   It prints nothing as angular ngForm does not tracks by default for all the controls.

5. To tell which controls to track add ngModel to all the controls:
   <input type="text" class="form-control" required **ngModel name='ename'**/>
   With ngModel name attribute is mandatory .

6. To see the state, angular tracks for, modify the input element as follows:

   REMOVE ngModel from above code and add below:
   <input type="text" class="form-control" required **[(ngModel)] = 'emp.ename'**
   name='ename ' **#ename** >

TODO: remove this: {{eid.className}}

7. Add custom CSS, to display for error messages:
   <input type="text" class="form-control **is-invalid** " required [(ngModel)] = ’emp.ename’ name=‘ename' #ename>

8. But red border should be applied conditionally only if control is invalid
   Use class binding of angular instead and remove **is-invalid** applied above

   [class.is-invalid]=“ename.invalid”

9. Now we don’t want red border to be applied on page load without user interaction. So lets add the following as well :

   [class.is-invalid]=“ename.invalid && ename.touched”

10. Lets validate name with only alphabets

    pattern="^[A-Za-z]+$”

    With the above code and [class.is-invalid] attribute it displays red border on the control.

11. Lets display error messages. Add the following in the div of name input element
    <small class=“text-danger” [class.d-none]=”ename.valid || ename.untouched">
        Name required
    </small>
    With class text-danger of bootstrap class, it displays error message in red.

    Now change the error message to display for required and pattern validation
     <small class="text-danger"
    [class.d-none]=”ename.valid || ename.untouched">

    Name required and it should be only alphabets</small>
    Here it displays both the message for anything not valid.

12. Modify the above error messages for custom message:

    <div *ngIf="ename.touched">
    <div *ngIf="ename.errors && (ename.invalid)">
    <small class="text-danger" *ngIf="ename.errors.required">
    Name required </small>
    <small class="text-danger" *ngIf="ename.errors.pattern">
    it can contain only alphabets and space</small>

13. Now comment all the above code and update the ts and html respectively:

```
    saveEmployee(emp:any)
  {
      console.log(emp.value)
   });

<div class="container">
<h1>Add Employee</h1>
<!-- ngModel , ngForm => we have FormsModule in app.module.ts-->
<!-- template reference variable > local to the tmeplate-->
<!-- <p>{{empform.value | json}}</p> -->
<form #empform="ngForm" (submit)="saveEmployee(empform)">
   <div class="mb-3">
      <input type="text" class="form-control" [class.errborder]="eid.invalid &&
eid.touched" required
         placeholder="enter id" #eid="ngModel" ngModel name="eid"/>
      <!-- <span>{{ename.className}}</span> -->
      <div *ngIf="eid.touched">
         <div *ngIf="eid.errors && (eid.invalid)">
            <small class="text-danger" *ngIf="eid.errors?.required">
               Id required </small>

         </div>
      </div>
   </div>
   <div class="mb-3">
      <input type="text" class="form-control" [class.is-invalid]="ename.invalid &&
ename.touched" minlength="5"
         required placeholder="enter name" #ename="ngModel" ngModel
name="ename" />
      <!-- <span>{{ename.className}}</span> -->
      <div *ngIf="ename.touched">
         <div *ngIf="ename.errors && (ename.invalid)">
            <small class="text-danger" *ngIf="ename.errors?.required">
               ename required </small>
            <small class="text-danger" *ngIf="ename.errors?.minlength">
               it should have minimin 5 characters</small>
         </div>
      </div>
   </div>
   <div class="mb-3">
      <input type="email" class="form-control" [class.is-invalid]="email.invalid &&
email.touched" minlength="5"
         required placeholder="enter email" #email="ngModel" ngModel
name="email" />
      <!-- <span>{{ename.className}}</span> -->
      <div *ngIf="email.touched">
         <div *ngIf="email.errors && (email.invalid)">
```

```
            <small class="text-danger" *ngIf="email.errors?.required">
                email required </small>
        </div>
    </div>
</div>
<div class="mb-3">
    <input type="password" class="form-control" [class.is-
invalid]="password.invalid && password.touched" minlength="5"
        required placeholder="enter password" #password="ngModel" ngModel
name="password" />
    <!-- <span>{{ename.className}}</span> -->
    <div *ngIf="password.touched">
        <div *ngIf="password.errors && (password.invalid)">
            <small class="text-danger" *ngIf="password.errors?.required">
                password required </small>
        </div>
    </div>
</div>
<div class="mb-3">
    <input type="text" class="form-control" [class.is-invalid]="phone.invalid &&
phone.touched" minlength="5"
        required placeholder="enter phone" #phone="ngModel" ngModel
name="phone" />
    <!-- <span>{{ename.className}}</span> -->
    <div *ngIf="phone.touched">
        <div *ngIf="phone.errors && (phone.invalid)">
            <small class="text-danger" *ngIf="phone.errors?.required">
                Phone required </small>
        </div>
    </div>
</div>
<div ngModelGroup="address">
    <div class="mb-3">
        <input type="text" class="form-control" placeholder="enter city"
#city="ngModel" ngModel name="city" />
    </div>
    <div class="mb-3">
        <input type="text" class="form-control" placeholder="enter country"
        required
        #country="ngModel" ngModel name="country" />
        <div *ngIf="country.touched">
            <div *ngIf="country.errors && (country.invalid)">
                <small class="text-danger" *ngIf="country.errors?.required">
                    Country required </small>
            </div>
        </div>
    </div>
    <div class="mb-3">
        <input type="text" class="form-control"
```

```
            placeholder="enter zipcode" #zipcode="ngModel" ngModel name="zipcode"
/>
        </div>

    </div>
    <div class="mb-3">
        <button type="submit">Add Employee</button>
    </div>
</form>

</div>
```