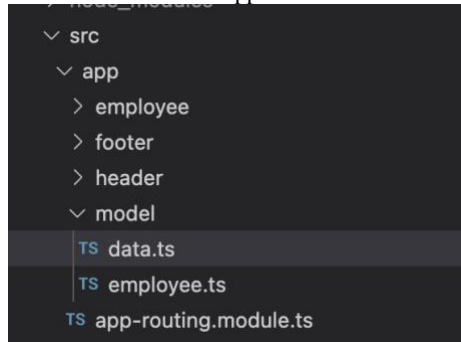


STEP 5: Prepare model and data

1. Create a folder within app folder named model



2. Create 2 files within model folder as following:

- a. employee.ts => that exports an interface Employee

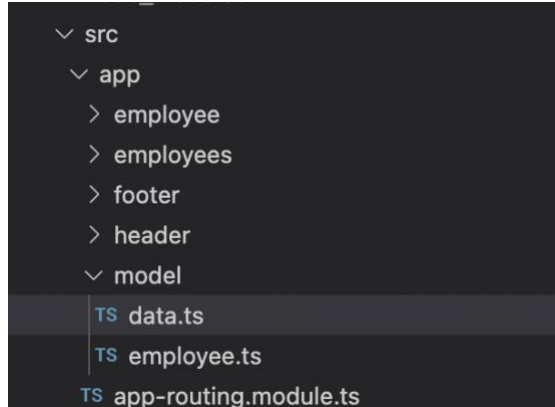
```
export interface Employee{
  eid:number,
  ename:string,
  email:string,
  phone:string,
  password:string,
  address:{
    city?:string,
    country:string,
    zipcode?:number
  }
}
```
- b. data.ts => that exports array of employees

```
export let employees = [{eid:1,ename:'shalini',password:'shalini'
  email:'shalini@gmail.com',phone:'1321312312'
  , address:{country:'India'}},
  {eid:2,ename:'Reshma',
  email:'reshma@gmail.com',phone:'987659876',password:'shalini'
  , address:{country:'India'}},
  {eid:3,ename:'Rahul',
  email:'rahul@gmail.com',phone:'645678678',password:'rahul'
  , address:{country:'India'}}]
```

STEP 6: Structural Directives [*ngFor and *ngIf]

1. Create Employees component using the below command from within the angulardemo folder:
ng g c employees

2. Folder structure looks as follows:



3. Import employees[] created before in employees.component.ts and display on employees.component.html using *ngFor.

```
<div *ngIf="employees.length > 0">
  <div *ngFor="let emp of employees">
    <p>Name: {{ emp.ename }}</p>
    <p>Name: {{ emp.email }}</p>
  </div>
</div>
<div class="container" *ngIf="employees.length <= 0">
  <h1>No employees yet joined your company!!!</h1>
</div>
```

OR

The track expression allows Angular to maintain a relationship between your data and the DOM nodes on the page. This allows Angular to optimize performance by executing the minimum necessary DOM operations when the data changes

```
@if(employees.length){
  <h4>Employees List with if</h4>
  @for(emp of employees; track emp.eid){
    <p>Name: {{ emp.ename }}</p>
    <p>Name: {{ emp.email }}</p>
  }
}
@else{
  <p>No employees yet with else</p>
}
```

Providing a fallback for @for blocks with the @empty block

You can optionally include an @empty section immediately after the @for block content. The content of the @empty block displays when there are no items:

```
@for (item of items; track item.name) {
  <li> {{ item.name }}</li>
} @empty {
  <li aria-hidden="true"> There are no items. </li>
}
```

<https://angular.dev/guide/templates/control-flow>

EXAMPLES:

```
@if (isEnabled){
  <div>if</div>
}
@else{
  <div>else</div>
}
```

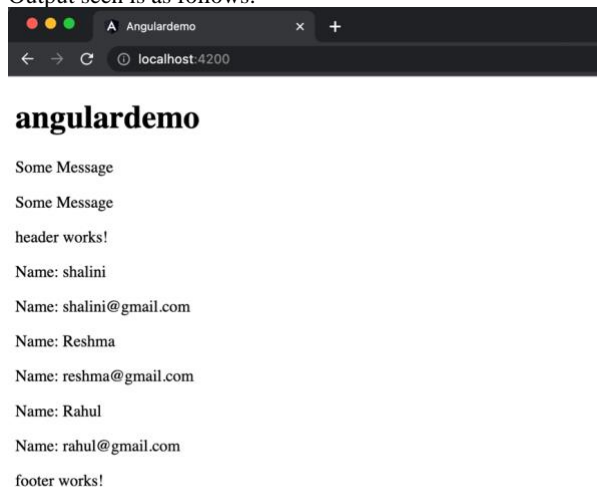
```

    }

    template: `
      @if (showHello) {
        <h2>Hello</h2>
      }
      @else if (showGoodbye) {
        <h2>Goodbye</h2>
      }
      @else {
        <h2>See you later</h2>
      }
    `
  OR
  <div *ngIf="isEnabled else t1"></div>
  <ng-template #t1>.. </ng-template>

```

4. Add <app-employees> tag within the app.component.html file
5. Output seen is as follows:



STEP 7: @Input Decorator

1. Instead of displaying the values in EmployeesComponent, pass the employee object from EmployeesComponent to EmployeeComponent using @Input decorator and [] data binding syntax

```

<div *ngIf="employees.length > 0">
  <app-employee [employee]="emp">
</app-employee>
</div>
</div>
<div class="container" *ngIf="employees.length <= 0">
  <h1>No employees yet joined your company!!!</h1>
</div>

```

2. Add instance variable in employee.component.ts whose name should be same as provided in the [] brackets above as highlighted

```

@Input()
employee:Employee
constructor() {
  this.employee = {eid:1,ename:",password:",
    email:"phone:"
    , address:{country:"} }
}

```

Transform:

To change the value before passing to component

```

@Input({
  alias: "userName",
  required: true,

```

```
    transform: (value: string) => value.toUpperCase(),
  })
```

built-in input transforms that are useful in many common scenarios: `booleanAttribute` and `numberAttribute`

```
@Input()
disabled: boolean;
```

From parent
`<app-child [disabled]="true"`

Instead if we want to use as follows:
`<app-child disabled/>`

Then modify input as below:

```
@Input({
  transform: booleanAttribute,
})
disabled: boolean;
```

the mere presence of the `disabled` property (even without a value) will cause the `disabled` property to be true, or false otherwise.

```
@Input({
  transform: numberAttribute,
})
age: number;
```

`<app-child age="20" />`

Any string that we set as the `age` property will be automatically converted to a number, or to NaN if the conversion is not possible.

If we didn't have this transform in place, we would have to use a slightly more verbose syntax:

`<app-child [age]="20"/>`

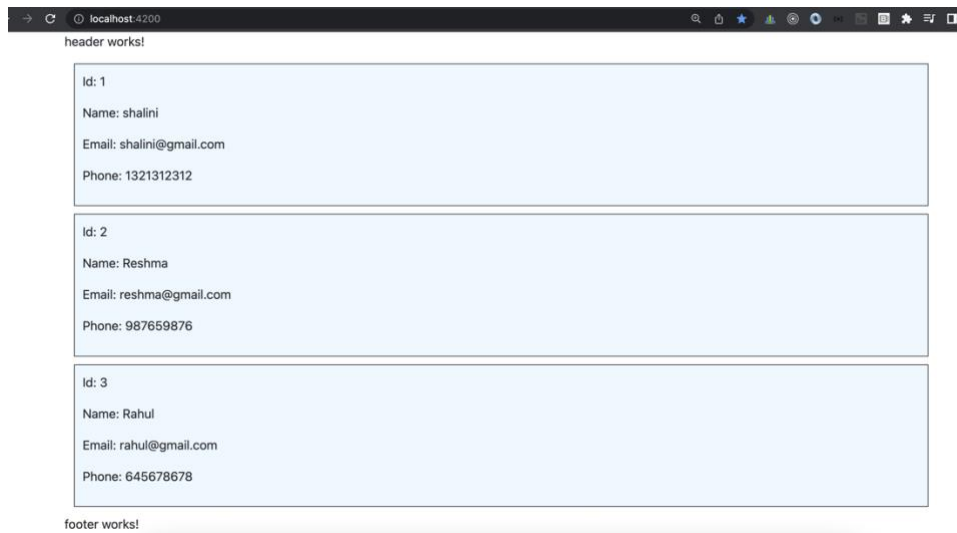
3. Update `employee.component.html` as follows:

```
<div class="employee">
  <p>Id: {{employee.eid}}</p>
  <p>Name: {{employee.ename}}</p>
  <p>Email: {{employee.email}}</p>
  <p>Phone: {{employee.phone}}</p>
</div>
```

4. Add styles to employee data in `employee.component.css` file

```
.employee{
  background-color: aliceblue;
  margin-bottom: 10px;
  padding: 10px;
  border: 1px solid;
}
```

5. Output seen is as below:



<https://blog.angular-university.io/angular-if/>