

Started updating as on July 18th, 2024

Let's Create an Employee List example

>ng new empexample --skip-tests

>cd empexample

Open application folder in VST Code

Open New Terminal window

Install Bootstrap

>npm i bootstrap

Now, Open the angular.json file of your project and include:

node_modules/bootstrap/dist/css/bootstrap.css in the projects->architect->build->styles array

node_modules/bootstrap/dist/js/bootstrap.js in the projects->architect->build->scripts array

```
"styles": [  
    "node_modules/bootstrap/dist/css/bootstrap.css",  
    "src/styles.css"  
],  
"scripts": [  
    "node_modules/bootstrap/dist/js/bootstrap.js"]
```

Let's create an Employee Model as we want to display employee records in a card structure.

Expand the "src" folder

Right click on the "App" folder, and select "New Folder" from the context menu

Name the folder "models". We will place all our models in this folder

Now add a new file in the "models" folder

Name it "employee.model.ts" and create a class:

```
export class Employee {  
    id: number;  
    name: string;  
    gender: string;  
    email?: string;  
    phoneNumber?: number;  
    contactPreference: string;  
    dateOfBirth: Date;  
    department: string;  
    isActive: boolean;  
    photoPath?: string;  
}
```

You might encounter an error as shown below:

Started updating as on July 18th, 2024

```
export class Employee {  
  id: number;  
  // Property 'id' has no initializer and is not definitely assigned in the  
  // constructor. ts(2564)  
  (property) Employee.id: number  
  View Problem (Alt+F8) Quick Fix... (Ctrl+.)  
  dateOfBirth: Date;  
  department: string;  
  isActive: boolean;  
  photoPath?: string;  
}
```

This is because new TypeScript versions includes a strict class checking where all the properties should be initialized in the constructor.

To avoid error, Just go to tsconfig.json and set

```
"compilerOptions": {  
  "outDir": "./dist/out-tsc",  
  "strict": true,  
  "strictPropertyInitialization": false,  
  ...  
}
```

Next, create a component to display the list of employees. Name it ListEmployeesComponent.

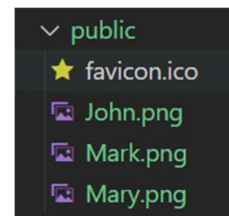
>ng g c employees/listEmployees --skip-tests --flat

```
Would you like to share pseudonymous usage data about this project with the Angular Team  
at Google under Google's Privacy Policy at https://policies.google.com/privacy. For more  
details and how to change this setting, see https://angular.dev/cli/analytics.  
  
no  
Global setting: enabled  
Local setting: disabled  
Effective status: disabled  
CREATE src/app/employees/list-employees.component.html (30 bytes)  
CREATE src/app/employees/list-employees.component.ts (277 bytes)  
CREATE src/app/employees/list-employees.component.css (0 bytes)
```

We will place all employee components in "employees" folder. This is the reason we prefixed the "employees" folder name in the command.

Also, notice we have set --flat option to true as we do not want to place the ListEmployeesComponent files in its own dedicated folder.

Add few Images, to be used as Emp Images, in Public folder.



Do changes in list-employees.component.ts : The changes are commented and self-explanatory. Infact we are populating few employee records to be displayed on page.

```
import { Component, OnInit } from '@angular/core';
import { Employee } from '../models/employee.model';
import { DatePipe } from '@angular/common';

@Component({
  selector: 'app-list-employees',
  standalone: true,
  imports: [DatePipe],

  templateUrl: './list-employees.component.html',
  styleUrls: ['./list-employees.component.css']
})
export class ListEmployeesComponent implements OnInit {
  employees: Employee[] = [
    {
      id: 1,
      name: 'Mark',
      gender: 'Male',
      contactPreference: 'Email',
      email: 'mark@pragimtech.com',
      dateOfBirth: new Date('10/25/1988'),
      department: 'IT',
      isActive: true,
      photoPath: './John.png'
    },
    {
      id: 2,
      name: 'Mary',
      gender: 'Female',
      contactPreference: 'Phone',
      phoneNumber: 2345978640,
      dateOfBirth: new Date('11/20/1979'),
      department: 'HR',
      isActive: true,
      photoPath: './Mary.png'
    },
    {
      id: 3,
      name: 'John',
      gender: 'Male',
      contactPreference: 'Phone',
      phoneNumber: 5432978640,
```

```
    dateOfBirth: new Date('3/25/1976'),
    department: 'IT',
    isActive: false,
    photoPath: './Mark.png'
  },
];
constructor() { }

ngOnInit() {
}
}
```

Replace the existing HTML, with the following HTML in list-employees.component.html. Notice we are using Bootstrap for styling.

```
<div class="container">
  <div class="row">
    @for (employee of employees; track $index) {

      <div class="col-md-4 mb-3">
        <div class="card">
          <img class="card-img-top" [src]="employee.photoPath"
alt="Card image" />
          <div class="card-body">
            <h4 class="card-title">{{ employee.name }}</h4>
            <div class="card-text">
              <div class="col-xs-8">
                <div class="row">
                  <div class="col-xs-6">Gender: {{ employee.gender
}}</div>
                </div>
                <div class="row">
                  <div class="col-xs-6">
                    Date of Birth: {{ employee.dateOfBirth | date }}
                  </div>
                </div>
                <div class="row">
                  <div class="col-xs-6">
                    Contact Preference : {{ employee.contactPreference
}}
                  </div>
                </div>
              </div>
            </div>
          </div>
        </div>
      </div>
    }
  </div>
</div>
```

Started updating as on July 18th, 2024

```

        <div class="row">
            <div class="col-xs-6">Phone: {{ employee.phoneNumber
        }}</div>

        </div>
        <div class="row">
            <div class="col-xs-6">Email: {{ employee.email
        }}</div>

        </div>
        <div class="row">
            <div class="col-xs-6">
                Department: {{ employee.department }}
            </div>
        </div>
        <div class="row">
            <div class="col-xs-6">Is Active: {{
employee.isActive }}</div>
        </div>
    </div>
</div>
</div>
</div>
}
</div>
</div>

```

Include the `ListEmployeesComponent` selector (`app-list-employees`) as a directive in the root component (`app.component.html`).

```
<div class="container">
  <app-list-employees></app-list-employees>
</div>
```

Save all the changes and run the angular project using the following command.

```
>ng serve -o
```

Started updating as on July 18th, 2024

