**App.component.ts**

import { Component } from '@angular/core';

@Component({

  selector: 'app-root',

  templateUrl: './app.component.html',

  styleUrls: ['./app.component.css']

})

export class AppComponent {

  title = 'pipes';

  public query:string =null ;

  students: any[] = [

    {

    ID: 'std101', Name: 'Rakesh Rout',

    DOB: '12/8/1988', Gender: 'Male', CourseFee: 1234.56

    },

    {

    ID: 'std102', Name: 'Anurag Mohanty',

    DOB: '10/14/1989', Gender: 'Male', CourseFee: 6666.00

    },

    {

    ID: 'std103', Name: 'Priyanka Dewangan',

    DOB: '7/24/1992', Gender: 'Female', CourseFee: 6543.15

    },

    {

    ID: 'std104', Name: 'Hina Sharma',

    DOB: '8/19/1990', Gender: 'Female', CourseFee: 9000.50

    },

    {

    ID: 'std105', Name: 'Sambit Satapathy',

    DOB: '4/12/1991', Gender: 'Male', CourseFee: 9876.54

    }

    ];

    }

Create a pipe

Ng g pipe searchfilter

Searchfileter.pipe.ts

import { Pipe, PipeTransform } from '@angular/core';

@Pipe({

  name: 'searchfilter'

})

export class SearchfilterPipe implements PipeTransform {

  transform(value: any, args?: any): any {

    if(!value)return null;

    if(!args)return value;

    args = args.toLowerCase();

    return value.filter(function(data)

    {

        return JSON.stringify(data).toLowerCase().includes(args);

    });

}

  }

App.module.ts

import { NgModule } from '@angular/core';

import { BrowserModule } from '@angular/platform-browser';

import { AppComponent } from './app.component';

import { CustomPipePipe } from './custom-pipe.pipe';

import { FormsModule } from '@angular/forms';

import { SearchfilterPipe } from './searchfilter.pipe';

@NgModule({

  declarations: [

    AppComponent,

    CustomPipePipe,

    SearchfilterPipe

  ],

  imports: [

    BrowserModule,

    FormsModule

  ],

  providers: [],

  bootstrap: [AppComponent]

})

export class AppModule { }

<!DOCTYPE html>

<html>

<head>

    <title>

        filter pipe</title>

</head>

<body>

    <div>

        <input type="text" [(ngModel)]="query" id="serachstudent" placeholder="search">

    </div>

    <table border="1 ">

        <thead>

            <tr>

                <th>Student ID</th>

                <th>Name</th>

                <th>DOB</th>

                <th>Gender</th>

                <th>CourseFee</th>

            </tr>

        </thead>

        <tbody>

            <tr \*ngFor='let student of students | searchfilter:query'>

                <td>{{student.ID | uppercase}}</td>

                <td>{{student.Name | myTitle:student.Gender}}</td>

                <td>{{student.DOB | date:'dd/MM/yyyy '}}</td>

                <td>{{student.Gender | lowercase}}</td>

                <td>{{student.CourseFee | currency:'USD ':true}}</td>

            </tr>

        </tbody>

    </table>

</body>

</html>

App.component.html

table {

    color: #369;

    font-family: Arial, Helvetica, sans-serif;

    font-size: large;

    border-collapse: collapse;

}

td {

    border: 1px solid #369;

    padding: 5px;

}

th {

    border: 1px solid #369;

    padding: 5px;

}