# **orbit-list.component.ts**

# **Import { Component, OnInit, Input } from '@angular/core';**

# **import { Satellite } from '../satellite';**

# **@Component({**

# **selector: 'app-orbit-list',**

# **templateUrl: './orbit-list.component.html',**

# **styleUrls: ['./orbit-list.component.css']**

# **})**

# **export class OrbitListComponent implements OnInit {**

# **satelliteType: string = 'Space Debris';**

# **types: string[] = ['Space Debris'];**

# **changeColor: boolean = true;**

# **alternateColor: string = 'purple';**

# **@Input() satellites: Satellite[];**

# **constructor() { }**

# **ngOnInit() {**

# **}**

# **sort(column: string): void {**

# **// array.sort modifies the array, sorting the items based on the given compare function**

# **this.satellites.sort(function(a: Satellite, b: Satellite): number {**

# **if(a[column] < b[column]) {**

# **return -1;**

# **} else if (a[column] > b[column]) {**

# **return 1;**

# **}**

# **return 0;**

# **});**

# **}**

# **}**

# orbit-list.component.html

# <h3>Orbit Report</h3>

# <table>

# <tr class="header-row">

# <th class="sortable" (click) = "sort('name')">Name</th>

# <th class="sortable" (click) = "sort('type')">Type</th>

# <th>Operational</th>

# <th>Orbit Type</th>

# <th>Launch Date</th>

# </tr>

# <!-- TODO: put <tr \*ngFor=""></tr> here -->

# <tr \*ngFor="let theSatellite of satellites">

# <td>{{theSatellite.name}}</td>

# <td [class.warning]=theSatellite.shouldShowWarning()>{{theSatellite.type}}</td>

# <td>{{theSatellite.orbitType}}</td>

# <td>{{theSatellite.operational}}</td>

# <td>{{theSatellite.launchDate}}</td>

# </tr>

# </table>

# orbit-list.component.css

# .sortable {

# cursor: pointer;

# color: #dd5;

# }

# .warning {

# background-color: #da8a8a;

# }

# table {

# color: #111;

# border-radius: 5px;

# overflow: hidden;

# margin: 12px 0;

# min-width: 300px;

# background: #dad8d8;

# }

# .header-row {

# background: #34495E;

# color: #fff

# }

# th, td {

# text-align: left;

# margin: 5px 10px;

# padding: 6px;

# }

# app.component.ts

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

# import { Satellite } from './satellite';

# let sourceList: Satellite[];

# let displayList: Satellite[];

# @Component({

# selector: 'app-root',

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

# styleUrls: ['./app.component.css'],

# })

# export class AppComponent {

# sourceList: Satellite[];

# displayList: Satellite[];

# title = 'orbit-report';

# constructor() {

# this.sourceList = [];

# this.displayList = [];

# let satellitesUrl = 'https://handlers.education.launchcode.org/static/satellites.json';

# window.fetch(satellitesUrl).then(function(response) {

# response.json().then(function(data) {

# 

# let fetchedSatellites = data.satellites;

# for (let i=0; i<fetchedSatellites.length; i++){

# let satellite = new Satellite(fetchedSatellites[i].name, fetchedSatellites[i].type, fetchedSatellites[i].launchDate, fetchedSatellites[i].orbitType, fetchedSatellites[i].operational);

# this.sourceList.push(satellite);

# this.displayList = this.sourceList.slice(0);

# }

# }.bind(this));

# }.bind(this));

# }

# search(searchTerm: string): void {

# let matchingSatellites: Satellite[] = [];

# searchTerm = searchTerm.toLowerCase();

# for(let i=0; i < this.sourceList.length; i++) {

# let name = this.sourceList[i].name.toLowerCase();

# if (name.indexOf(searchTerm) >= 0) {

# matchingSatellites.push(this.sourceList[i]);

# }

# }

# // assign this.displayList to be the the array of matching satellites

# // this will cause Angular to re-make the table, but now only containing matches

# this.displayList = matchingSatellites;

# }

# }

# app.component.html

# <!--The content below is only a placeholder and can be replaced.-->

# <app-orbit-list [satellites]="displayList"></app-orbit-list>

# <div class="search-form">

# <input #searchValue (keyup.enter) = "search(searchValue.value)" type = 'text'/>

# <button (click) = "search(searchValue.value)" type = 'submit'></button>

# </div>

# 

# app.component.css

# .search-form {

# margin-bottom: 40px;

# }

# button {

# margin-left: 10px;

# color: #fff;

# background-color: #009b25;

# border-radius: 4px;

# padding: 2px 5px;

# font-size: 18px;

# cursor: pointer;

# }

# satellite.ts

# export class Satellite {

# name: string;

# orbitType: string;

# type: string;

# operational: boolean;

# launchDate: string;

# constructor(name: string, type: string, launchDate: string, orbitType: string, operational: boolean) {

# this.name = name;

# this.orbitType = orbitType;

# this.type = type;

# this.operational = operational;

# this.launchDate = launchDate;

# }

# shouldShowWarning () {

# if (this.type === 'Space Debris') {

# return true;

# } else {

# return false;

# }

# }

# }

# satellite.spec.ts

# import { Satellite } from './satellite';

# describe('Satellite', () => {

# it('should create an instance', () => {

# expect(new Satellite()).toBeTruthy();

# });

# });