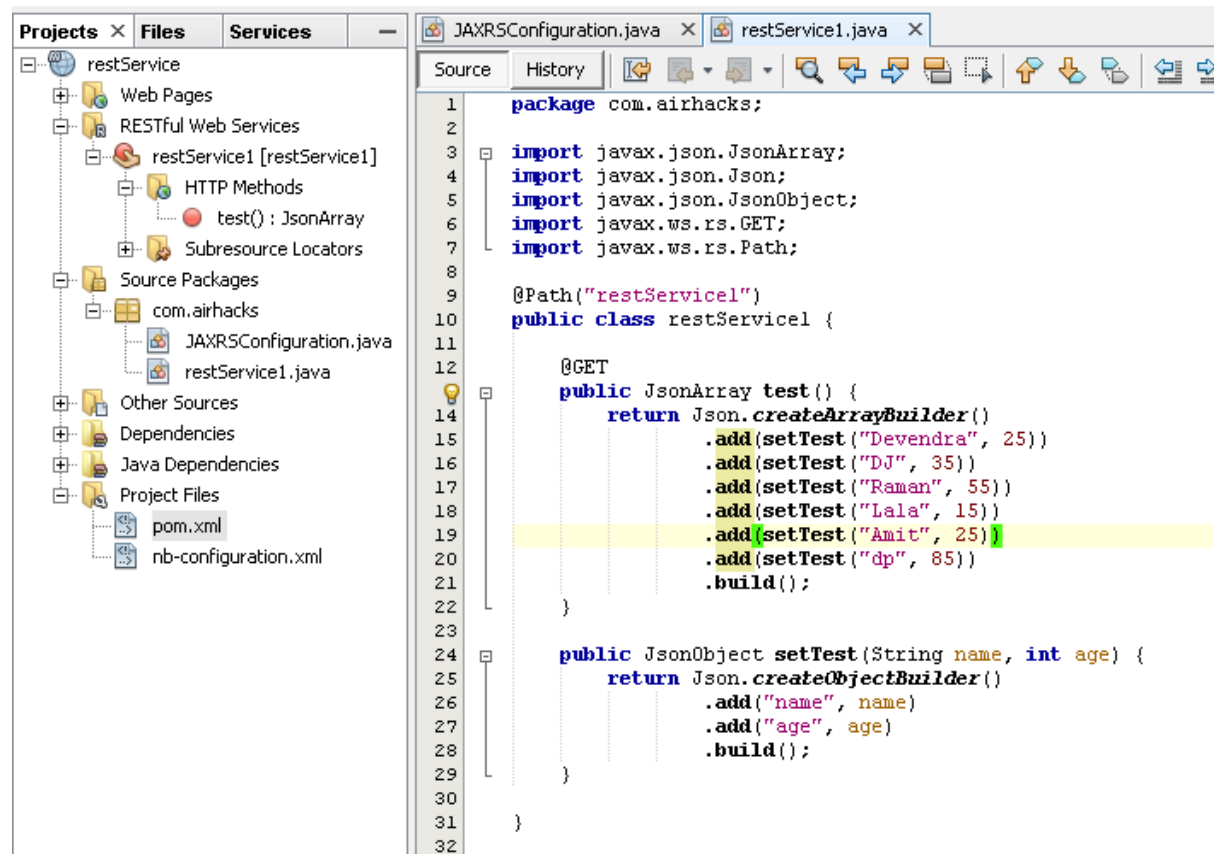


Beauty of angular js is the tight coupling to MVC design so that developer always is bound to write the neat and scalable code and keep application flexible and future proof

Java Client



Maven dependencies



Deployed on GlassFish Server

```
Output
GlassFish Server x Run (restService) x
Info: visiting unvisited references
Info: visiting unvisited references
Info: WELD-000900: 2.2.13 (Final)
WARN: WELD-001700: Interceptor annotation class javax.ejb.PostActivate not found, interception based on it is not enabled
WARN: WELD-001700: Interceptor annotation class javax.ejb.PrePassivate not found, interception based on it is not enabled
WARN: WELD-000411: Observer method [BackedAnnotatedMethod] public org.glassfish.jms.injection.JMSCDIExtension.processAnnotated
WARN: WELD-000411: Observer method [BackedAnnotatedMethod] private org.glassfish.jersey.ext.cdi1x.internal.CdiComponentProvide
WARN: WELD-000411: Observer method [BackedAnnotatedMethod] org.glassfish.sse.impl.ServerSentEventCdiExtension.processAnnotated
Info: Loading application [restService] at [/restService]
Info: restService was successfully deployed in 2,963 milliseconds.
```

Angular2 UI design

The screenshot shows a web browser at localhost:3000/# displaying a simple form with two input fields labeled 'Your email' and 'Your password'. Below the form, there is a section titled 'App Component 1' with a list of names and ages: '1. Devendra is of 25 yrs', '2. DJ is of 35 yrs', '3. Raman is of 55 yrs', '4. Lala is of 15 yrs', '5. Amit is of 25 yrs', and '6. dp is of 85 yrs'. Below this list, the text 'Devendra 25' is displayed. Further down, there is a section titled 'hello world... Component' and a 'FOOTER' section. In the background, Visual Studio Code is open, showing the file explorer with a project structure including 'dist', 'app', 'main.js', 'node_modules', 'restServer', 'web', and 'templates'. The 'appModule1.ts' file is open in the editor, showing imports for various Angular modules and the @NgModule decorator.

package.json

```
package.json - restServiceConsumer - Visual Studio Code
File Edit Selection View Go Help
EXPLORER
OPEN EDITORS
RESTSERVICECONSUMER
dist
app
main.js
main.js.map
node_modules
restServer
restService1.json
web
app
appModule1.ts
component1.ts
main.ts
tsconfig.json
bower.json
bs-config.json
index.html
karma.conf.js
package.json
readMe.txt
system.config.js
package.json
1 {
2   "name": "dptest",
3   "version": "1.0.0",
4   "description": "this is angular 2 base test",
5   "license": "GPL-3.0",
6   "dependencies": {
7     "@angular/common": "~2.4.0",
8     "@angular/compiler": "~2.4.0",
9     "@angular/core": "~2.4.0",
10    "@angular/forms": "~2.4.0",
11    "@angular/http": "~2.4.0",
12    "@angular/platform-browser": "~2.4.0",
13    "@angular/platform-browser-dynamic": "~2.4.0",
14    "@angular/router": "~3.4.0",
15    "angular-in-memory-web-api": "~0.2.4",
16    "core-js": "^2.4.1",
17    "rxjs": "5.0.1",
18    "systemjs": "0.19.40",
19    "zone.js": "^0.7.4"
20  },
21  "devDependencies": {
22    "concurrently": "^3.2.0",
23    "lite-server": "^2.2.2",
24    "typescript": "~2.0.10",
25    "canonical-path": "0.0.2",
26    "tslint": "^3.15.1",
27    "lodash": "^4.16.4",
28    "jasmine-core": "~2.4.1",
29    "karma": "^1.3.0",
30    "karma-chrome-launcher": "^2.0.0",
31    "karma-cli": "^1.0.1",
32    "karma-jasmine": "^1.0.2",
33    "karma-jasmine-html-reporter": "^0.2.2",
34    "protractor": "~4.0.14",
35    "rimraf": "^2.5.4",
36    "@types/node": "^6.0.45",
37    "@types/jasmine": "2.5.36"
38  },
39  "repository": {},
40  "main": "dist/main.js",
41  "scripts": {
42    "start": "concurrently \"npm run build\" \"npm run serve\" \"npm run test\"",
43    "build": "tsc",
44    "serve": "lite-server",
45    "test": "karma start karma.conf.js",
46    "lint": "tslint *.ts",
47    "format": "prettier --write *.ts",
48    "clean": "rm -rf dist",
49    "deploy": "npm run build & npm run deploy"
50  }
51 }
```

Inside a JS file

```
//ANGULAR+JS CODE
var app = angular.module('myAjs', []);
var newCars = new Array();
//var demoObj=document.getElementById('demo');

//simple test
app.controller('myName', function ($scope) {
    $scope.firstName = "John";
    $scope.lastName = "Doe";
    $scope.count = 0;
    $scope.getName = function () {
        return $scope.firstName + " " + $scope.lastName;
    }
});
```

ON UI

FirstName :

LastName :

4

Welcome, Devendra Prasad

My first expression: 10

Array Test: Devendra, Prasad

Quantity: Costs: Total in dollar: 5

- MAMA, CHINA
- DEVENDRA, INDIA
- RAMAN, INDIA
- PAPA, INDIA
- JYOTI, JAPAN
- KITTU, USA

Inside main call

```
<div ng-view ng-include src="'ajs/readFromPhp.html'">
</div>
```

All call and handling wrt that module is in a separate file or template

```
<p>Reading from PHP serverside</p>
<div ng-controller="customersCtrl">
  <table>
    <tr ng-repeat="x in names | orderBy:'country'">
      <td>{{x.Name}}</td>
      <td>{{x.City|lowercase}}</td>
      <td>{{x.Country|uppercase}}</td>
    </tr>
  </table>
</div>
```

Inside a JS file (a call to rest service and binding to the angular scope)

```
//read json from php
app.controller('customersCtrl', function ($scope, $http) {
  $url = "http://www.w3schools.com/angular/customers.php";
  $http.get($url)
    .success(function (response) {
      $scope.names = response.records;
    });
});
```

Reading from PHP serverside

Blondel père et fils	strasbourg	FRANCE
Alfreds Futterkiste	berlin	GERMANY
Antonio Moreno Taquería	méxico d.f.	MEXICO
Around the Horn	london	UK
B's Beverages	london	UK
Berglunds snabbköp	luleå	SWEDEN
Blauer See Delikatessen	mannheim	GERMANY
Ana Trujillo Emparedados y helados	méxico d.f.	MEXICO
Bólido Comidas preparadas	madrid	SPAIN
Bon app'	marseille	FRANCE
Bottom-Dollar Marketse	tsawassen	CANADA
Cactus Comidas para llevar	buenos aires	ARGENTINA
Centro comercial Moctezuma	méxico d.f.	MEXICO
Chop-suey Chinese	bern	SWITZERLAND
Comércio Mineiro	são paulo	BRAZIL

Users

Edit	Hege	Pege
Edit	Kim	Pim
Edit	Sal	Smith
Edit	Jack	Jones
Edit	John	Doe
Edit	Peter	Pan

My Note

hello I am devendra

Save Clear

characters left: 81

```
<!-- <form ng-controller="validateCtrl" name="myForm" novalidate> -->
<form ng-controller="validateCtrl" name="myForm">
  <p>Username:<input type="text" name="user" ng-model="user" required>
    <span style="color:red" ng-show="myForm.user.$dirty && myForm.user.$invalid">
      <span ng-show="myForm.user.$error.required">Username is required.</span>
    </span>
  </p>

  <p>Email:<input type="email" name="email" ng-model="email" required>
    <span style="color:red" ng-show="myForm.email.$dirty && myForm.email.$invalid">
      <span ng-show="myForm.email.$error.required">Email is required.</span>
      <span ng-show="myForm.email.$error.email">Invalid email address.</span>
    </span>
  </p>
  <!-- <p><input type="submit" ng-disabled="myForm.user.$dirty && myForm.user.$invalid || myForm.email.$dirty">
  <p><input type="submit"></p>
</form>
```

Inside index.html or call any template or html file referenced from HTML

```
<hr/>
<div class="container">
  <div ng-controller="userCtrl">
    <div ng-include src="'ajs/userList.html'"><br/>
    <div ng-include src="'ajs/userForm.html'">
    </div>
  </div>
</div>

<hr/>
<div class="container">
  <div ng-controller="myNoteCtrl">
    <div ng-include src="'ajs/myNoteApp.html'">
    </div>
  </div>
</div>

<hr/>
<div class="container">
  <div ng-view ng-include src="'ajs/readFromPhp.html'">
  </div>
</div>
```

Javascript Array Test

Student Database: Array Project

Existing ID		RowId	Name	Age	65	English	75	Hindi	87	Maths		
Name:	devendra	1	devendra	32	65	75	75	87	87		edit	delete
Age:	32	2	devendra	32	65	75	75	87	87		edit	delete
English:	65	3	devendra	32	65	75	75	87	87		edit	delete
Hindi:	75	4	devendra	32	65	75	75	87	87		edit	delete
Maths:	87	5	devendra	32	65	75	75	87	87		edit	delete
<input type="button" value="SAVE"/>	<input type="button" value="CLEAR"/>	<input type="button" value="RefreshData"/>	6	devendra	32	65	75	87	87		edit	delete
			7	devendra	32	65	75	87	87		edit	delete
			8	devendra	32	65	75	87	87		edit	delete
			9	devendra	32	65	75	87	87		edit	delete
			10	devendra	32	65	75	87	87		edit	delete
			11	devendra	32	65	75	87	87		edit	delete
			12	devendra	32	65	75	87	87		edit	delete

Html code

```
<!DOCTYPE html>
<html>
  <head>
    <title>This is array project to store student database</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <script src="js/jquery2.js"></script>
    <script src="js/arrStu.js"></script>
  </head>
  <body>
    <h1>Student Database: Array Project</h1>
    <div>
      <table border="1" width="100%">
        <tr>
          <td width="50%" style="vertical-align:top;">
            <div>
              <form>
                <table width="100%">
                  <tr><td>Existing ID</td><td><input type="text" id="tId" disabled /></td></tr>
                  <tr><td>Name: </td><td><input type="text" id="tName" /></td></tr>
                  <tr><td>Age: </td><td><input type="text" id="tAge" /></td></tr>
                  <tr><td>English: </td><td><input type="text" id="tEng" /></td></tr>
                  <tr><td>Hindi: </td><td><input type="text" id="tHin" /></td></tr>
                  <tr><td>Maths: </td><td><input type="text" id="tMath" /></td></tr>
                  <tr><td colspan="2"><input type="button" id="bSave" value="SAVE" onclick="storeRecords();" />
                    <input type="reset" id="bReset" value="CLEAR" onclick="$('myReport').html('');" />
                    <input type="button" id="bRefresh" value="RefreshData" onclick="displayStuRecord();" />
                </td>
              </tr>
            </table>
          </div>
        </td>
        <td width="50%" style="vertical-align:top;">
          <div id="myReport"></div>
        </td>
      </tr>
    </table>
  </div>
</body>
</html>
```

Js code

```
var stuDB = new Array(1000); //init a 2d array
var recCounter = 0;

$(function () {
  initVars();
});

function initVars() {
  for (i = 0; i < stuDB.length; i++) {
    stuDB[i] = new Array(6);
  }
}

function storeRecords() {
  var name, age, eng, hin, math, id;
  name = $("#tName").val();
  age = $("#tAge").val();
  eng = $("#tEng").val();
  hin = $("#tHin").val();
  math = $("#tMath").val();
  id = $("#tId").val();
  if (id == "") {
    stuDB[recCounter][0] = name;
    stuDB[recCounter][1] = age;
    stuDB[recCounter][2] = eng;
    stuDB[recCounter][3] = hin;
    stuDB[recCounter][4] = math;
    stuDB[recCounter][5] = recCounter;
    recCounter += 1;
  } else {
    stuDB[id][0] = name;
    stuDB[id][1] = age;
    stuDB[id][2] = eng;
    stuDB[id][3] = hin;
    stuDB[id][4] = math;
  }
  displayStuRecord();
}
```

```

function displayStuRecord() {
    //Loop over array and display table
    var sData = "";
    sData += "<table width='100%' border=0>";
    sData += "<th>RowId</th><th>Name</th><th>Age</th><th>English</th><th>Hindi</th><th>Maths</th>";
    for (i = 0; i < stuDB.length; i++) {
        if (typeof stuDB[i][0] == 'undefined' || stuDB[i][0] == "")
            break;
        if (stuDB[i][0] != "---") {
            sData += "<tr>";
            sData += "<td>" + (stuDB[i][stuDB[i].length - 1] + 1) + "</td>";
            for (j = 0; j < stuDB[i].length - 1; j++) {
                sData += "<td>" + stuDB[i][j] + "</td>";
            }
            sData += "<td><a href=# onclick='editRecord(" + i + ")';>edit</a></td>"; //edit link or button image
            sData += "<td><a href=# onclick='deleteRecord(" + i + ")';>delete</a></td>"; //delete link or button image
            sData += "</tr>";
        }
    }
    sData += "</table>";
    $("#myReport").html(sData);
}

function editRecord(index) {
    $("#tName").val(stuDB[index][0]);
    $("#tAge").val(stuDB[index][1]);
    $("#tEng").val(stuDB[index][2]);
    $("#tHin").val(stuDB[index][3]);
    $("#tMath").val(stuDB[index][4]);
    $("#tId").val(stuDB[index][5]);
    displayStuRecord();
}

function deleteRecord(index) {
    stuDB[index][0] = "---";
    stuDB[index][1] = "---";
    stuDB[index][2] = "---";
    stuDB[index][3] = "---";
    stuDB[index][4] = "---";
    //permanent deletion method
    //stuDB.splice(index,1);
    displayStuRecord();
}

```