# Angular 4.3 HttpClient

<https://www.djamware.com/post/59924f9080aca768e4d2b12e/ionic-3-consuming-rest-api-using-new-angular-43-httpclient>

### **1. Create the New Ionic 3 App**

As usual, we are creating new Ionic 3 app from scratch. Open the terminal or Node command line then type this command.

ionic start ionic3-angular43-rest blank

### **2. Install and Configure the New Angular 4.3 HttpClient**

By default in the last version of Ionic 3 (when this tutorial created) it still using old Angular HTTP module. For this, we have to install a different module for the new Angular 4.3 HTTPClient. Angular use different module name for HTTP, so the developer can migrate to the new Angular 4.3 HTTPClient slowly because old HTTP module still can be used. For safe use with Ionic 3, update all '@angular' dependencies with the latest version.

npm install @angular/common@latest --save  
npm install @angular/compiler@latest --save  
npm install @angular/compiler-cli@latest --save  
npm install @angular/core@latest --save  
npm install @angular/forms@latest --save  
npm install @angular/http@latest --save  
npm install @angular/platform-browser@latest --save  
npm install @angular/platform-browser-dynamic@latest --save

Next, open and edit 'src/app/app.module.ts' then add this import.

import { HttpClientModule } from '@angular/common/http';  
  
Then register it to '@NgModule' imports after 'BrowserModule', so it will look like this.  
  
imports: [  
 BrowserModule,  
 HttpClientModule,  
 IonicModule.forRoot(MyApp)  
],

### **3. Create Ionic 3 Service or Provider**

ionic g provider Rest

Next, we will create all REST API call inside 'rest.ts' file. Add this line before the constructor.

apiUrl = '[https://jsonplaceholder.typicode.com](https://jsonplaceholder.typicode.com/)';

Add this functions after constructors.

getUsers() {  
 return new Promise(resolve => {  
 this.http.get(this.apiUrl+'/users').subscribe(data => {  
 resolve(data.json()

);  
 }, err => {  
 console.log(err);

console.log(err.message);

});  
 });  
}

addUser(data) {  
 return new Promise((resolve, reject) => {  
 this.http.post(this.apiUrl+'/users', data)  
 .subscribe(res => {

// use for http client angular

resolve(res);

// use for basic angular

//resolve(res.json());

console.log("data\_suceessdata1\_dus",JSON.stringify(res.json()));

}, (err) => {  
 reject(err);

console.log(err.message);  
 });  
 });  
}

### **4. Display Data in View**

To displaying data in the view, open and edit `src/pages/home/home.ts` then add this import.

import { RestProvider } from '../../providers/rest/rest';

Inject the `RestProvider` to the constructor.

constructor(public navCtrl: NavController, public restProvider: RestProvider) {}

Add variable for holds users data before the constructor.

users: any;

Create a function below the constructor for calling the users from the provider then fill users variable.

getUsers() {  
 this.restProvider.getUsers()  
 .then(data => {  
 this.users = data;  
 console.log(this.users);  
 });  
 }

Now, call that function inside the constructor.

constructor(public navCtrl: NavController, public restProvider: RestProvider) {  
 this.getUsers();  
 }

Then, open and edit 'src/pages/home/home.html' then replace '<ion-content>' and it's content using this.

<ion-content>  
 <ion-list inset>  
 <ion-item \*ngFor="let user of users">  
 <h2>{{[user.name](http://user.name/)}}</h2>  
 <p>{{user.email}}</p>  
 </ion-item>  
 </ion-list>  
</ion-content>

for post request

Add server---**Allow-Control-Allow-Origin: \***

**Header access control allow in route.php**

**...**

**if(array\_key\_exists('HTTP\_ORIGIN', $\_SERVER)){**

**$http\_origin = $\_SERVER['HTTP\_ORIGIN'];**

**}else{**

**$http\_origin ='';**

**}**

**if ($http\_origin == "**[**http://localhost:8080**](http://localhost:8080/)**" || $http\_origin == "**[**http://localhost:8100**](http://localhost:8100/)**" )**

**{**

**header("Access-Control-Allow-Origin: $http\_origin");**

**header('Access-Control-Allow-Methods: GET, POST, PATCH, PUT, DELETE, OPTIONS');**

**header('Access-Control-Allow-Headers: Origin, Content-Type, X-Auth-Token'); // allow certain headers**

**}**

**...**

Add chrome PlugIn---**Allow-Control-Allow-Origin: \***

**to debug with chrome**

**chrome://inspect/#devices--->inpect\_\_and**

**console**

data = { name: '', username: '', email: '', phone: '', website: '', address: { street: '', suite: '', city: '', zipcode: '', geo: { lat: '', lng: '' } }, company: { name: '', bs: '', catchPhrase: '' }};

in home.ts

this.restProvider.addUser(this.data).then(data1 =>{

this.users = data1;

console.log("data12",data1);

});

in rest.ts

addUser(data) {  
 return new Promise((resolve, reject) => {  
 this.http.post(this.apiUrl+'/users', data)  
 .subscribe(res => {  
 resolve(res);  
 }, (err) => {  
 reject(err);  
 });  
 });  
}

**Second Process using ionic doc**

[**https://ionicframework.com/docs/native/http/**](https://ionicframework.com/docs/native/http/)

1. Install the Cordova and Ionic Native plugins:
2. $ ionic cordova plugin add cordova-plugin-advanced-http  
   $ npm install --save @ionic-native/http
3. [Add this plugin to your app's module](https://ionicframework.com/docs/native/#Add_Plugins_to_Your_App_Module)(
4. After installing a plugin’s package, add it to your app’s NgModule.
5. in app.module.ts...
6. import { HTTP } from '@ionic-native/http';
7. ...  
     
   @NgModule({  
    ...  
     
    providers: [  
    ...

HTTP

1. ...  
    ]  
    ...  
   })  
   **export** **class** AppModule { }
2. )

**import** { HTTP } from '@ionic-native/http';  
  
**constructor**(private http: HTTP) { }  
  
...  
  
**this**.http.get('[http://ionic.io](http://ionic.io/)', {}, {})  
 .then(data => {  
  
 console.log(data.status);  
 console.log(data.data); *// data received by server*  
 console.log(data.headers);  
  
 })  
 .catch(error => {  
  
 console.log(error.status);  
 console.log(error.error); *// error message as string*  
 console.log(error.headers);  
  
 });

+ve :works with ios and resolve cross error

problem:work with simulator or device

Calling Another Page

In .ts

getISDCode() {

this.restProvider.getISD().then(data=>{

this.myData = data;

this.countryCodes = this.myData.ISD\_CODE;

console.log("isdCodeData",this.restProvider.isdCode);

console.log("isdCode",this.myData.ISD\_CODE);

});

///////////In provider

getISD() {

return new Promise((resolve, reject) => {

this.httpNative.get(this.ISDapiUrl, {}, {}).then(data => {

resolve(JSON.parse(data.data));

console.log("isdCodeData01",this.isdCode );

}, err => {

console.log(err);

});

});

}

addMember(data){

return new Promise((resolve, reject) => {

this.httpNative.post(this.addMemberUrl, data,{})

.then(data => {

resolve(JSON.parse(data.data));

}, (err) => {

reject(err);

});

});

**Third Process using basic**

**Angular provider**

**And upload FormData with file**

**In ionic.config.json**

**{**

**"name": "socailSignup",**

**"app\_id": "",**

**"type": "ionic-angular",**

**"integrations": {**

**"cordova": {}**

**},**

**"proxies": [**

**{**

**"path":"/",**

**"proxyUrl": "http://159.65.146.95/api"**

**}**

**]**

**}**

**\*\* only work with ionic serve and --livereload**

**In app.module.ts**

**…**

**import { HttpModule } from '@angular/http';**

**…**

**imports: [**

**...**

**HttpModule,**

**...**

**],**

**…**

**Home.ts**

**…**

**import { HttpModule,Http } from '@angular/http';**

**…**

**constructor(...**

**private http:Http,**

**...)**

**…**

**pickPDF(event){**

**let fileInput:File;**

**this.fileInput=event.target.files[0];**

**console.log("pickPDF",this.fileInput);**

**let fd =new FormData();**

**fd.append('plan\_id','53');**

**fd.append('PostedByID','1');**

**fd.append('ImagePath',this.fileInput);**

**return new Promise((resolve, reject) => {**

**this.http.post('/api/planner/Update-single-image-in-plan-Gallery-api',fd)**

**.subscribe(res => {**

**resolve(res.json());**

**console.log("data\_suceessdata1",res)**

**console.log("data\_suceessdata1\_json",res.json())**

**}, (err) => {**

**reject(err);**

**console.log("data\_err",err)**

**});**

**});**

**}**

**…**

**Home.html**

**...**

**<input type="file" (change)="pickPDF($event);" accept="application/pdf" >**

**…**

**//for hide choose for**

**<label for="filePicker">**

**<input type="file" id="filePicker" (change)="uploadfilePicker($event);" style="display: none" >**

**<ion-icon name="cloud-upload" ></ion-icon>**

**</label>**

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Regards,

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