Angular 2: Convert Observable to Promise



Q) How do I convert the following observable to a promise so I can call it with .then(...)?

39

My method I want to convert to a promise:



```
*
```

9

```
this._APIService.getAssetTypes().subscribe(
   assettypes => {
       this._LocalStorageService.setAssetTypes(assettypes);
   },
   err => {
       this._LogService.error(JSON.stringify(err))
   },
   () => {}
):
```

The service method it calls:

```
getAssetTypes() {
  var method = "assettype";
  var url = this.apiBaseUrl + method;

  return this._http.get(url, {})
    .map(res => <AssetType[]>res.json())
    .map((assettypes) => {
      assettypes.forEach((assettypes) => {
            // do anything here you might need....
      });
    return assettypes;
    });
}
```

Thanks!

typescript

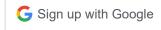


promise

observable

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2,343

30

The Most answers below have toPromise() operator, that has been deprecated in RxJS 5.5+ - Rohit Sharma Sep 7 '18 at 20:32

4 Answers



rxjs6

68

https://github.com/ReactiveX/rxjs/issues/2868#issuecomment-360633707



Don't pipe. It's on the Observable object by default.



Observable.of('foo').toPromise(); // this

rxjs5

```
import 'rxjs/add/operator/toPromise';
import 'rxjs/add/operator/map';
...

this._APIService.getAssetTypes()
.map(assettypes => {
    this._LocalStorageService.setAssetTypes(assettypes);
})
.toPromise()
.catch(err => {
    this._LogService.error(JSON.stringify(err));
});
```

edited Aug 3 '18 at 20:08

answered Apr 21 '16 at 18:08



Günter Zöchbauer

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What does getAssetTypes() return? – Günter Zöchbauer Apr 21 '16 at 18:29

- @GünterZöchbauer has import 'rxjs/operator/add/toPromise'; been changed to: import 'rxjs/add/operator/toPromise'; ? Zze Apr 24 '17 at 6:52
- @Zze you're right, thanks for pointing out. Günter Zöchbauer Apr 24 '17 at 6:56
- toPromise is deprecated. How would we do this now? Jus10 Aug 3 '18 at 20:02



observable can be converted to promise like this:

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let promise=observable.toPromise();



answered Jan 3 '18 at 11:46



4.286 43 47

If I conver this to promise I can also catch an error right? – KnowledgeSeeker Aug 17 '18 at 6:30

you can surround with try catch and even user promise.catch() - Luca C. Aug 17 '18 at 9:46



you dont really need to do this just do ...

import 'rxjs/add/operator/first';



```
this.esQueryService.getDocuments$.first().subscribe(() => {
        event.enableButtonsCallback();
     },
      (err: any) => console.error(err)
   this.getDocuments(query, false);
```

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Correct, the promise is only resolved at the time the observables completes, using .first() or .take(1) will ensure it's the case after the first emit. – Flavien Volken Jan 11 '18 at 9:27

The problem here is we cannot use async/await pattern. - Sampath Mar 14 '18 at 11:27



The proper way to make Observable a Promise, in your case would be following

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```
getAssetTypesPromise() Observable<any> {
    return new Promise((resolve, reject) => {
        this.getAssetTypes().subscribe((response: any) => {
            resolve(response);
        }, reject);
    });
}
Run code snippet

Expand snippet
```

answered Oct 8 '18 at 13:26



This can be further simplified to return new Promise((resolve, reject) => this.getAssetTypes().subscribe(resolve, reject)); - mopo922

Dec 18 '18 at 16:34

✓

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