# Testing with ngMockE2E BackEnd



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# ngMockE2E

An angular module which contains mocks suitable for end-to-end testing. Currently there is only one mock present in this module - the e2e $httpBackend mock.
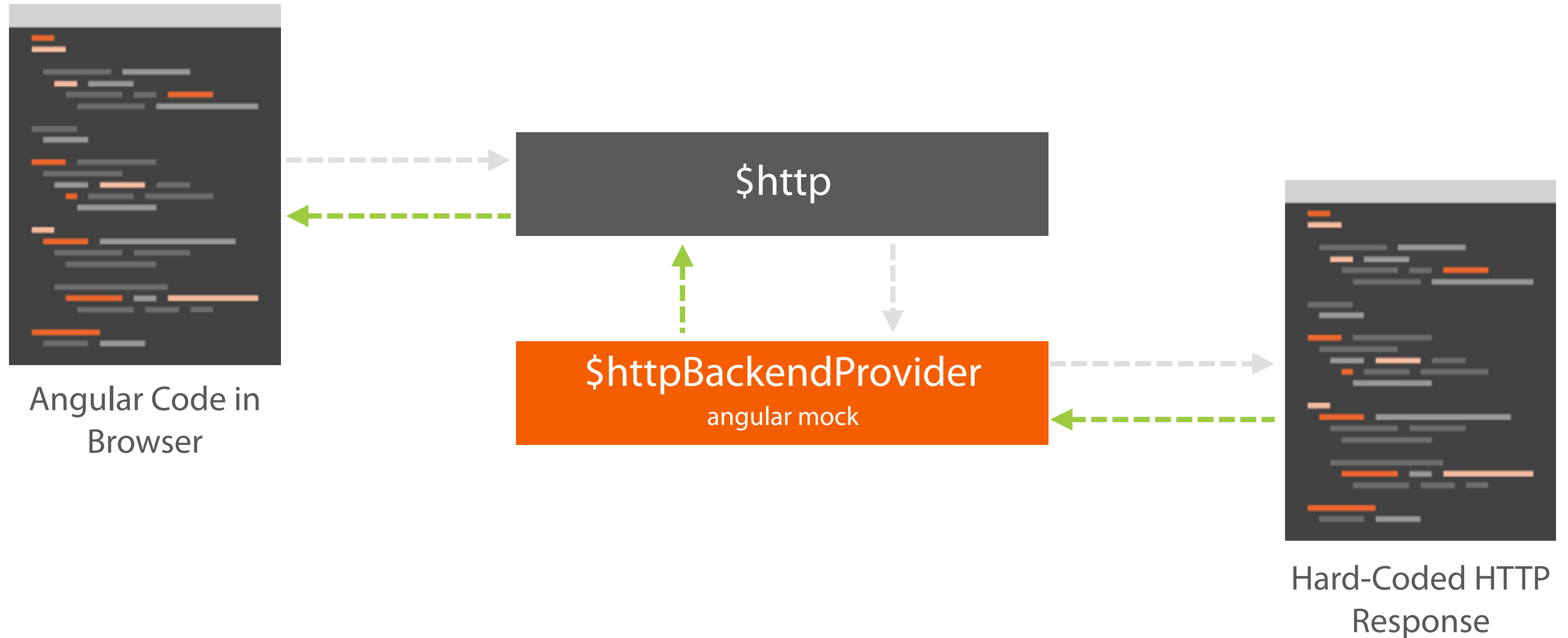
# $httpBackend

Fake HTTP backend implementation suitable for end-to-end testing or backend-less development of applications that use the $http service.
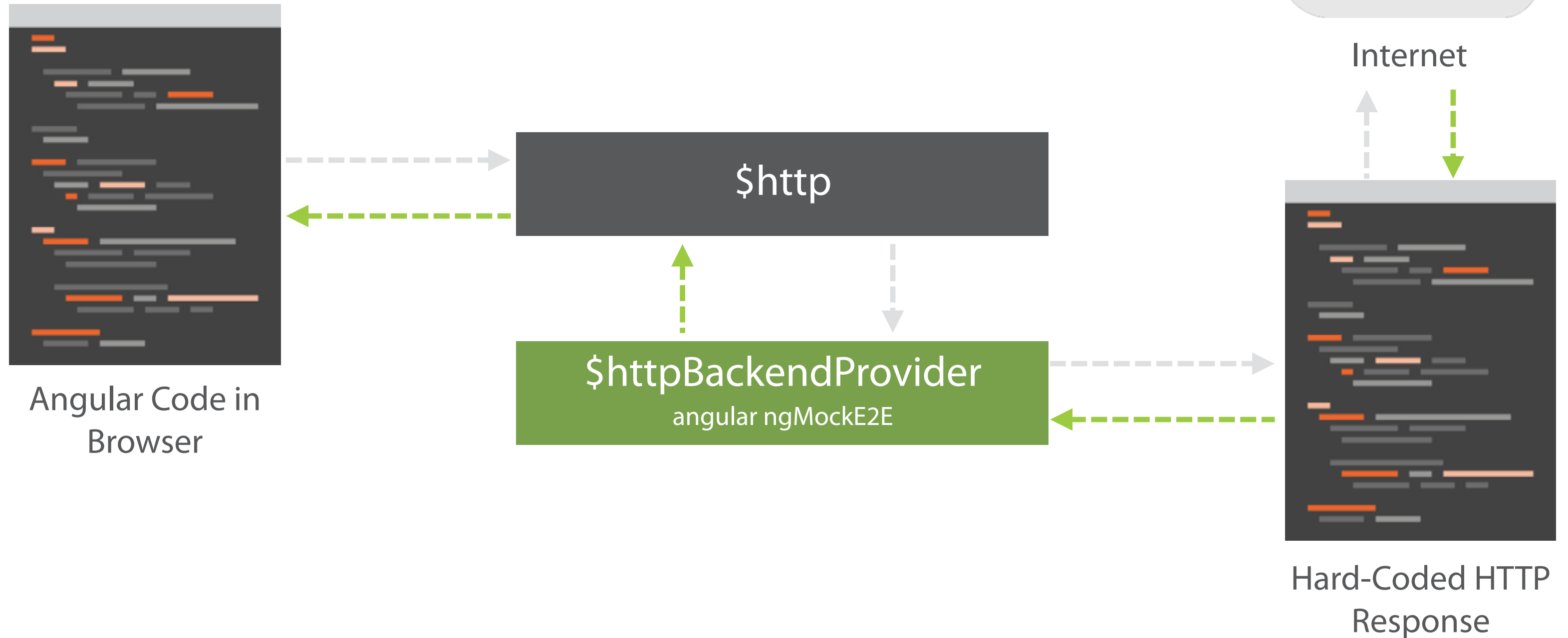
Service in ngMockE2E module

How can we setup a fake backend using the ngMockE2E $httpBackend Service?

# Using $http in Angular Unit Tests
## with ngMock

Angular Code in Browser

$http

$httpBackendProvider
angular mock

Hard-Coded HTTP Response

# Using $http in Angular Application
## with ngMockE2E

Internet

$http

$httpBackendProvider

angular ngMockE2E

Angular Code in Browser

Hard-Coded HTTP Response

# *when* Function

Specifies Backend Definition

```
$httpBackend

  .when('GET', 'http://localhost/api', [data], [headers])

  .respond(200, { foo: 'bar' });
```

# *when* Function

Specifies Backend Definition

```
$httpBackend

  .when('GET', 'http://localhost/api', [data], [headers])

  .passThrough();
```

# Supported HTTP Verbs

| | | |
|---|---|---|
| GET | POST | PUT / PATCH |
| DELETE | HEADER | JSONP |

# Differences from ngMock's $httpBackend

Possible to setup *when* configuration  in the same way

Able to make real http calls via *passThrough()*

Call to *flush()* not required

Not available in unit tests

ngMockE2E is not in the same module
as ngMock!

https://github.com/angular/angular.js/issues/1434#issuecomment-152315282

# What we've Learned

## ngMock

Covered the entire module

Used a TDD workflow

Built a Movie Application

## ngMockE2E

Fake HTTP backend implementation