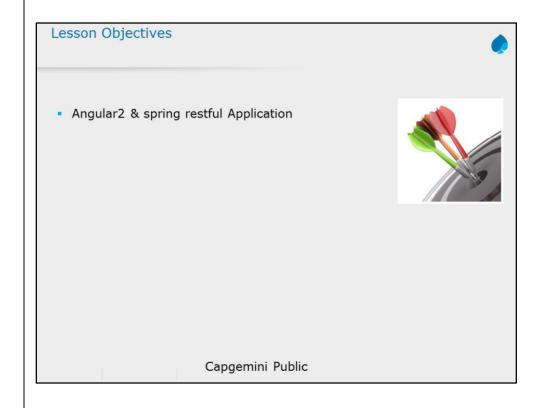
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Angular With Java Base Middleware(Spring)



- •Angular http is an angular module for interacting with REST based services. We are going to learn with a small project with Spring with RESTFUL
- •Observable is a RxJS API. Observable is a representation of any set of values over any amount of time. All angular Http methods return instance of Observable. Find some of its operators.
- •map: It applies a function to each value emitted by source Observable and returns finally an instance of Observable.
- •catch: It is called when an error is occurred. catch also returns Observable.

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We will perform create operation using Angular Http.post() method. It hits the request URL using HTTP POST method. Http.post() method syntax is as follows.

post(url: string, body: any, options?: RequestOptionsArgs):

Observable<Response>

The description of parameters is given as below.

url: This is the REST web service URL to create article.

body: This is of any type object that will be passed to REST web service server. In our example we will create an Angular class as Article and pass its instance to body parameter.

options: This is optional. This accepts the instance of

Angular RequestOptions that is instantiated using

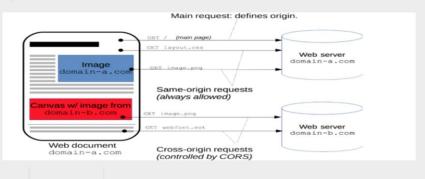
Angular RequestOptionsArgs. Using RequestOptions we pass request parameter, request headers etc.

Http.post() returns instance of Observable. Observable is a representation of any set of values over any amount of time.

Cross-Origin Resource Sharing (CORS)



- Cross-Origin Resource Sharing (CORS) is a mechanism that uses additional HTTP headers to let a user agent gain permission to access selected resources from a server on a different origin (domain) than the site currently in use.
- HTTP request when it requests a resource from a different domain, protocol, or port than the one from which the current document originated.



The only allowed methods are:

GET

HEAD

POST

Apart from the headers set automatically by the user agent (for example, <u>Connection</u>, <u>User-Agent</u>, or <u>any of the other headers with names defined in the Fetch spec as a "forbidden header name"</u>), the only headers which are allowed to be manually set are <u>those which the Fetch spec defines</u> as being a "CORS-safelisted request-header", which are:

Accept

Accept-Language

Content-Language

Content-Type (but note the additional requirements below)

Last-Event-ID

DPR

Save-Data

Viewport-Width

Width

The only allowed values for the Content-Type header are:

application/x-www-form-urlencoded

multipart/form-data

text/plain

No event listeners are registered on any <u>XMLHttpRequestUpload</u> object used in the request; these are accessed using

the XMLHttpRequest.upload property.

No ReadableStream object is used in the request.

Cross-Origin Resource Sharing (CORS)



- The CORS mechanism supports secure cross-domain requests and data transfers between browsers and web servers. Modern browsers use CORS in an API container such as XMLHttpRequest or Fetch to help mitigate the risks of cross-origin HTTP requests.
- This cross-origin sharing standard is used to enable cross-site HTTP requests for:
 - Invocations of the XMLHttpRequest or Fetch APIs in a cross-site manner, as discussed above.
- Web Fonts (for cross-domain font usage in @font-face within CSS), so that servers can deploy TrueType fonts that can only be cross-site loaded and used by web sites that are permitted to do so.
- WebGL textures.
- · Images/video frames drawn to a canvas using drawImage.
- Stylesheets (for CSSOM access).
- Scripts (for unmuted exceptions).

In our code created filter & response.addHeader("Access-Control-Allow-Origin", "*"); response.addHeader("Access-Control-Allow-Methods", "POST, GET, OPTIONS, PUT, DELETE, HEAD"); response.addHeader("Access-Control-Allow-Headers", "X-PINGOTHER, Origin, X-Requested-With, Content-Type, Accept"); response.addHeader("Access-Control-Max-Age", "1728000");

Angular With Java Base Middleware(Spring)



Angular2 Method We are Using for Calling Spring Rest service

- · http.get Shortcut method to perform GET request.
- · http.delete shortcut method to perform DELETE request
- · http.post shortcut method to perform post request
- · http.put shortcut method to perform put request

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We will perform read operation using Angular Http.get() method. It hits the URL using HTTP GET method. Find its syntax.

get(url: string, options?: RequestOptionsArgs) : Observable<Response> Find the description of the parameters.

url: Web service URL to read article.

options: This is optional. It is used to pass request parameter, headers etc.

Http.get() returns the instance of Observable.

Http.put

We will perform update operation using Angular 2 Http.put() method. It hits the URL using HTTP PUT method. Find its syntax.

put(url: string, body: any, options?: RequestOptionsArgs) :

Observable<Response>

Find the description of parameters.

url: This is the REST web service URL to update article.

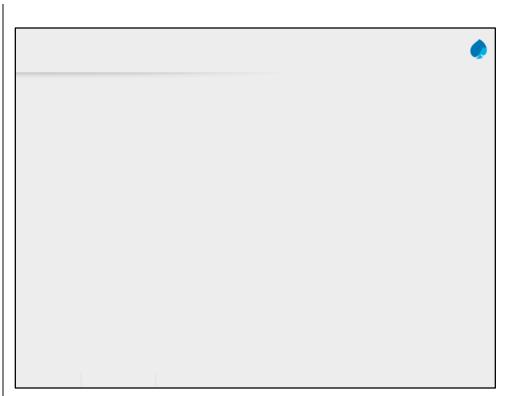
body: This is of any type object that will be passed to REST web service server. In our example we will create an Angular class as Article and pass its instance to body parameter.

options: This is optional. This is used to pass request parameter, request headers etc.

Http.put() returns the instance of Observable.

AngularJS Angular JS Routing

Instructor Notes:



Http.delete

We will perform delete operation using

Angular Http.delete() method. Http.delete() hits the URL using HTTP DELETE method. Find its syntax.

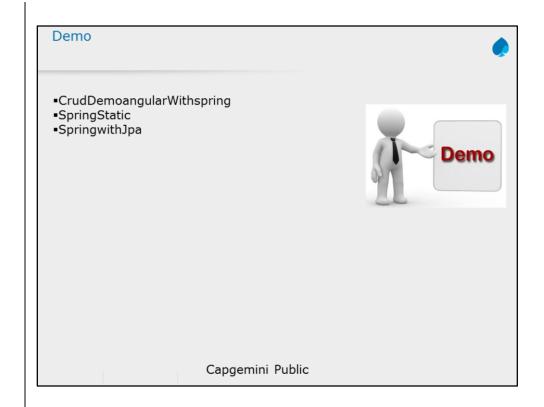
delete(url: string, options?: RequestOptionsArgs) : Observable<Response> Find the description of the parameters.

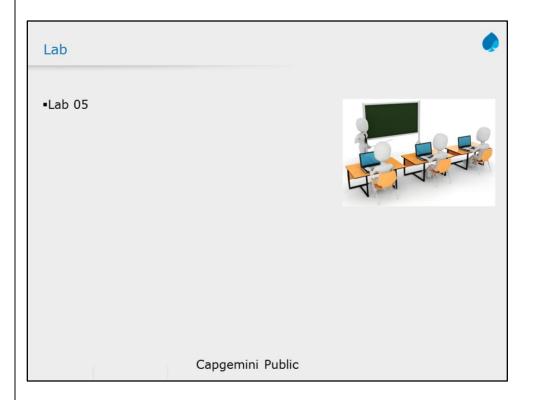
url: Web service URL to delete article.

options: This is optional. It is used to pass request parameter, headers etc.

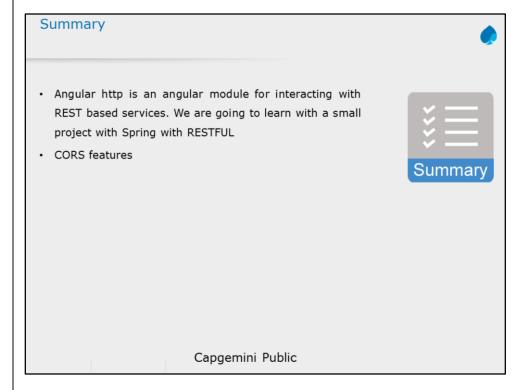
Http.get() returns the instance of Observable.

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