HTTP REQUESTS

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| 1. import Module :- import { **HttpClientModule** } from '@angular/common/http'; in App.module.ts .  2. Component file:- import { **HttpClient** } from '@angular/common/http';  3. Http Requests: -  // Inject HttpClient service in Constructor  constructor(private http: **HttpClient**) {}   1. **POST REQUEST**   this.http.post('url','post body');   * Above request will not work since we need to Subscribe it. Angular thinks that nobody is interested in response, so it will not even send this request without subscribing it. * Post request returns a observable * E.g:-  |  | | --- | | this.http  .**post**(  'https://angapi-f128c.firebaseio.com/posts.json',  postData  )  .**subscribe**(responseData => {  console.log(responseData);  }); |      1. **GET REQUEST**  * Only 1 url parameter is required * Need to subscribe it  |  | | --- | | this.http  .**get**('https://ng-complete-guide-c56d3.firebaseio.com/posts.json').**subscribe**(posts => {  // ...  console.log(posts);  }); |      1. **RxJS operator to transform data**   **Map() :- transform data(converting js object to array)**   |  | | --- | | this.http  .get('https://ng-complete-guide-c56d3.firebaseio.com/posts.json')  .**pipe**(  **map**(responseData => {  const postsArray = [];  for (const key in responseData) {  if (responseData.hasOwnProperty(key)) {  postsArray.push({ ...responseData[key], id: key });  }  }  return postsArray;  })  )  .**subscribe**(posts => {  // ...  console.log(posts);  });  }  } |  |  | | --- | | **4. Adding type to Get request**   * Http requests have generic return type in <> brackets * <> : return type of response body   this.http  .get<{[key:string] : post}>('https://ng-complete-guide-c56d3.firebaseio.com/posts.json')  .**pipe**(  **map**(responseData => {  const postsArray = [];  for (const key in responseData) {  if (responseData.hasOwnProperty(key)) {  postsArray.push({ ...responseData[key], id: key });  }  }  return postsArray;  })  )  .**subscribe**(posts => {  // ...  console.log(posts);  });  }  } |  |  | | --- | | 5. ERROR HANDLING The subscribe method has three callback arguments.  **.subscribe(success, error, completed);**  .subscribe(          (response) => {                           //Next callback            console.log('response received')            this.repos = response;          },  **(error) => {                              //Error callback**  **console.error('error caught in component')**  **this.errorMessage = error;**  **this.loading = false;**    **//throw error;   //You can also throw the error to a global error handler**  **}**  **)**  **Using Subject for error handling**  ***error = new Subject<string>();***   this.http        .post<{ name: string }>(          'https://ng-complete-guide-c56d3.firebaseio.com/posts.json',          postData        )        .subscribe(          responseData => {            console.log(responseData);          },  ***error => {***  ***this.error.next(error.message);***  ***}***        );  **Use catchError operator to handle errors**   .pipe(          map(responseData => {            const postsArray: Post[] = [];            for (const key in responseData) {              if (responseData.hasOwnProperty(key)) {                postsArray.push({ ...responseData[key], id: key });              }            }            return postsArray;          }),          catchError(errorRes => {            // Send to analytics server            return throwError(errorRes);          })        ); |     6. Setting custom Headers  return this.http        .get<{ [key: string]: Post }>(          'https://ng-complete-guide-c56d3.firebaseio.com/posts.json',          {  **headers: new HttpHeaders({ 'Custom-Header': 'Hello' }),**            params: searchParams          }        )  7. Pssing query params  **let searchParams = new HttpParams();**  **searchParams = searchParams.append('print', 'pretty');**  **searchParams = searchParams.append('custom', 'key');**      return this.http        .get<{ [key: string]: Post }>(          'https://ng-complete-guide-c56d3.firebaseio.com/posts.json',          {            headers: new HttpHeaders({ 'Custom-Header': 'Hello' }),  **params: searchParams**          }        ) |