Notes to self
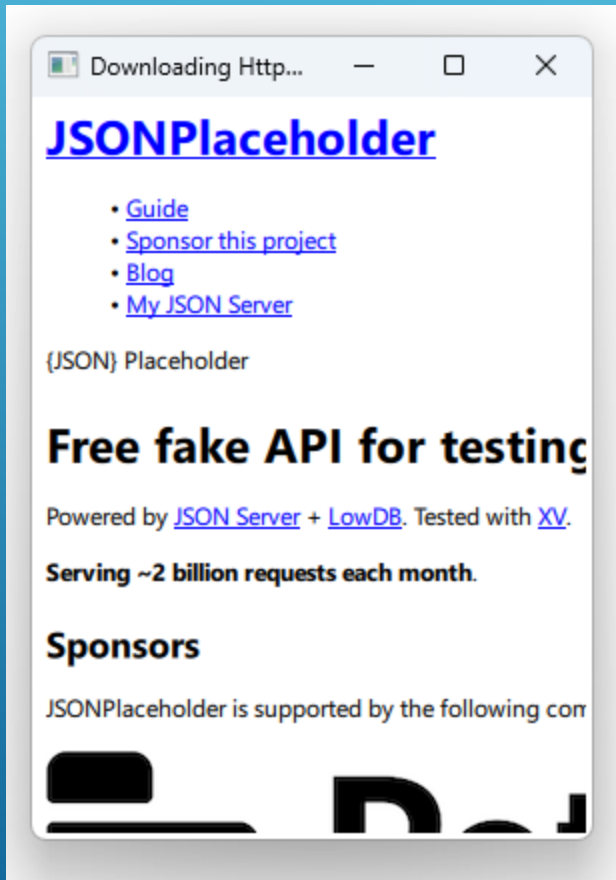
```
. Using XMLHttpRequest to download data from the internet.
. You get data by calling the open method on yoUR XMLHttpRequest object
. You can either call open asynchronously (default) or synchronously by putting
    in the 3rd bool parameter. See docs
. In this lecture we'll just go with the default : asynchronous
. Use the info you have and improvise.
```

XMLHttpRequest

Download with a callback

```javascript
    //Process the data in a callback
    function downloadData(url, callback)
    {
        var xhr = new XMLHttpRequest();
        xhr.onreadystatechange = function(){
            //XMLHttpRequest.HEADERS_RECEIVED
            //XMLHttpRequest.DONE
            if ( xhr.readyState === XMLHttpRequest.HEADERS_RECEIVED){
                console.log("HEADERS RECEIVED")
            }else if(xhr.readyState === XMLHttpRequest.DONE ){

                if( xhr.status == 200){
                    console.log("Resource found")
                    callback(xhr.responseText.toString())
                }else{
                    console.log("Resource not found")
                    callback(null)
                }
            }
        }
        //Kick off the download
        xhr.open("GET",url)
        xhr.send()
    }
```

Download Right Away

```javascript
//Process the data right away

function downloadData(url){
    var xhr = new XMLHttpRequest();
    xhr.onreadystatechange = function(){
        //XMLHttpRequest.HEADERS_RECEIVED
        //XMLHttpRequest.DONE
        if ( xhr.readyState === XMLHttpRequest.HEADERS_RECEIVED){
            console.log("HEADERS RECEIVED")
        }else if(xhr.readyState === XMLHttpRequest.DONE ){
            if( xhr.status == 200){
                //console.log("Got the data , it is : " + xhr.responseText.toString())
                textAreaId.text = xhr.responseText.toString();
            }else{
                console.log("Something went wrong")
            }
        }
    }
    //Kick off the download
    xhr.open("GET",url)
    xhr.send()
}
```

Trigger the download

```qml
MouseArea{
    anchors.fill: parent
    onClicked: {
        /*
          Urls to try :
            . https://www.qt.io/
            . https://github.com/
            . https://jsonplaceholder.typicode.com/
         */

        //Process the data right away
        //downloadData("http://www.icndb.com/")

        //Using callback
        downloadData("https://jsonplaceholder.typicode.com/", function(response){
            if ( response)
            {
                textAreaId.text = response

            }else{
                //null
                textAreaId.text = "Some error"
            }

        })
    }
}
```

CMake

```
find_package(Qt6 6.2 COMPONENTS Quick QuickControls2 REQUIRED)
...
target_link_libraries(app2-Button
    PRIVATE Qt6::Quick Qt6::QuickControls2)
```