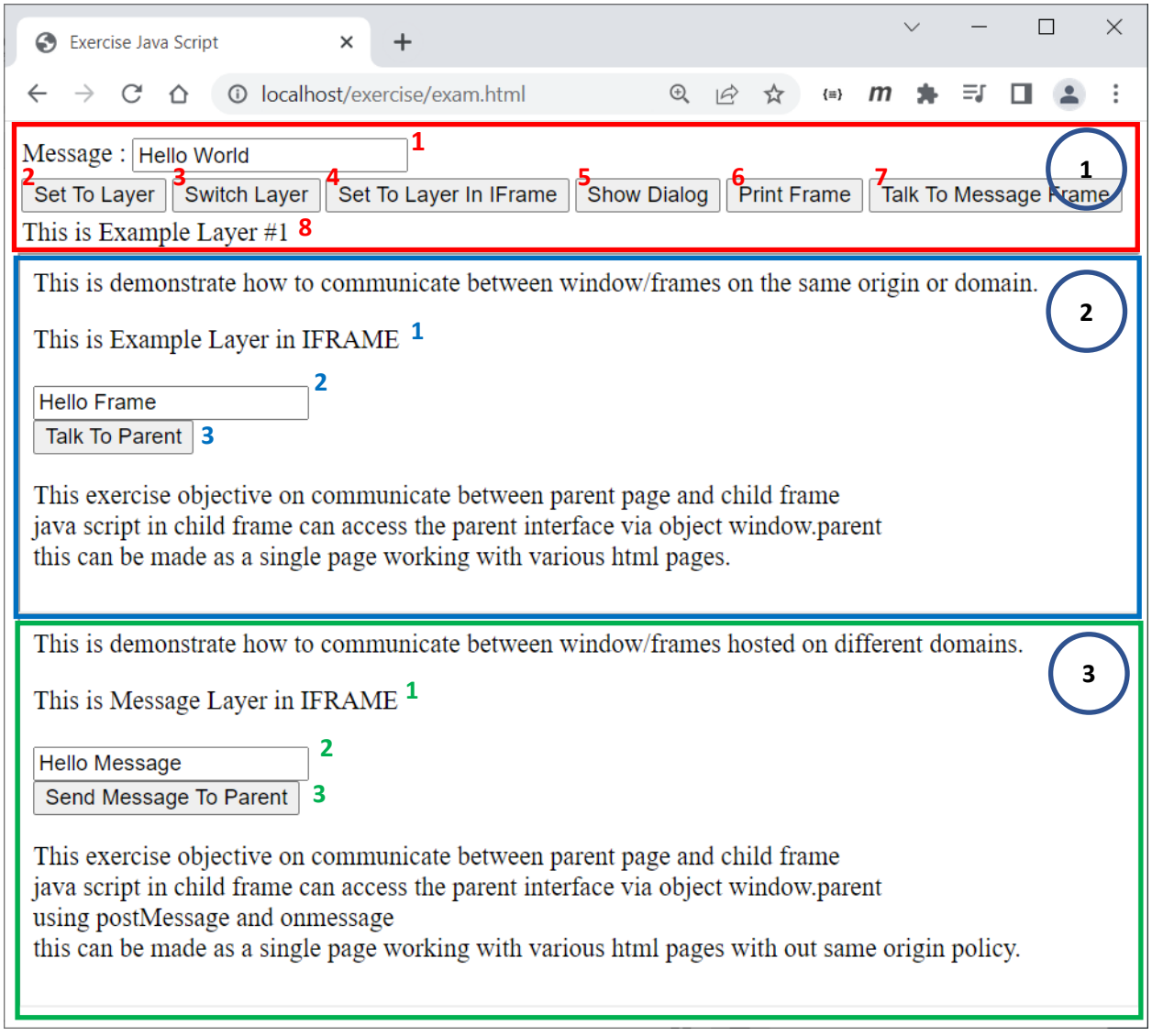
JavaScript Exercise

This exercise objective on using JavaScript to access and manipulate html elements including react DOM events. It is also working with JavaScript objects to handle requirements as the specifications by the following.



Screen 1. exam.html

Screen 2. exam_dialog.html

Screen Definitions & Specifications

Screen 1. exam.html

1. exam.html this is main page
   - 1.1 Message input text
   - 1.2 Button Set To Layer

     When this button click then set or assign layer text on 1.8 equals to message input text value from 1.1 (this is depending on current layer #1 and layer #2 visible too)

   - 1.3 Button Switch Layer

     When this button click then toggle visible and invisible layer on 1.8 between layer #1 and layer #2

     ex. if current layer #1 visible then make it hide and bring layer #2 visible instead and if current layer #2 visible then make it hide and bring layer #1 visible
   - 1.4 Button Set To Layer In IFrame

     When this button click then set or assign layer in iframe on 2.1 equals to message input text value from 1.1

1.5 Button Show Dialog
When this button click then make window open as it's dialog from exam_dialog.html with the properties
- Window name = exam_dialog
- Width = 350
- Height = 350
- Make dialog as screen center
- Set or assign dialog layer from 4.1 equals to message input text from 1.1

1.6 Button Print Frame
When this button click then try to print only contents in iframe from 2 (exam_frame.html)

1.7 Button Talk To Message Frame
When this button click then using postMessage with value from message input text 1.1 to iframe from 3 (exam_message.html)

1.8 Layer #1 & Layer #2

1.9 In order to receive message from iframe try to handle onmessage please console out and display to message input text 1.1

2. exam_frame.html is in an iframe under exam.html or main page that come from with the same domain as exam.html (same origin)
   2.1 Layer in iframe
   2.2 Message input text
   2.3 Button Talk To Parent
   When this button click then set or assign message input text from 1.1 equals to message input text from 2.2

3. exam_message.html is in an iframe under exam.html or main page but it come from another domain (cross origin)
   3.1 Layer in iframe

3.2 Message input text

3.3 Button Send Message To Parent
When this button click then using postMessage with value from message input text 3.2 to then parent (exam.html)

3.4 In order to receive message from parent try to handle onmessage please console out and display to message input text 3.3

4. exam_dialog.html make it as html dialog from opener

4.1 Dialog Layer

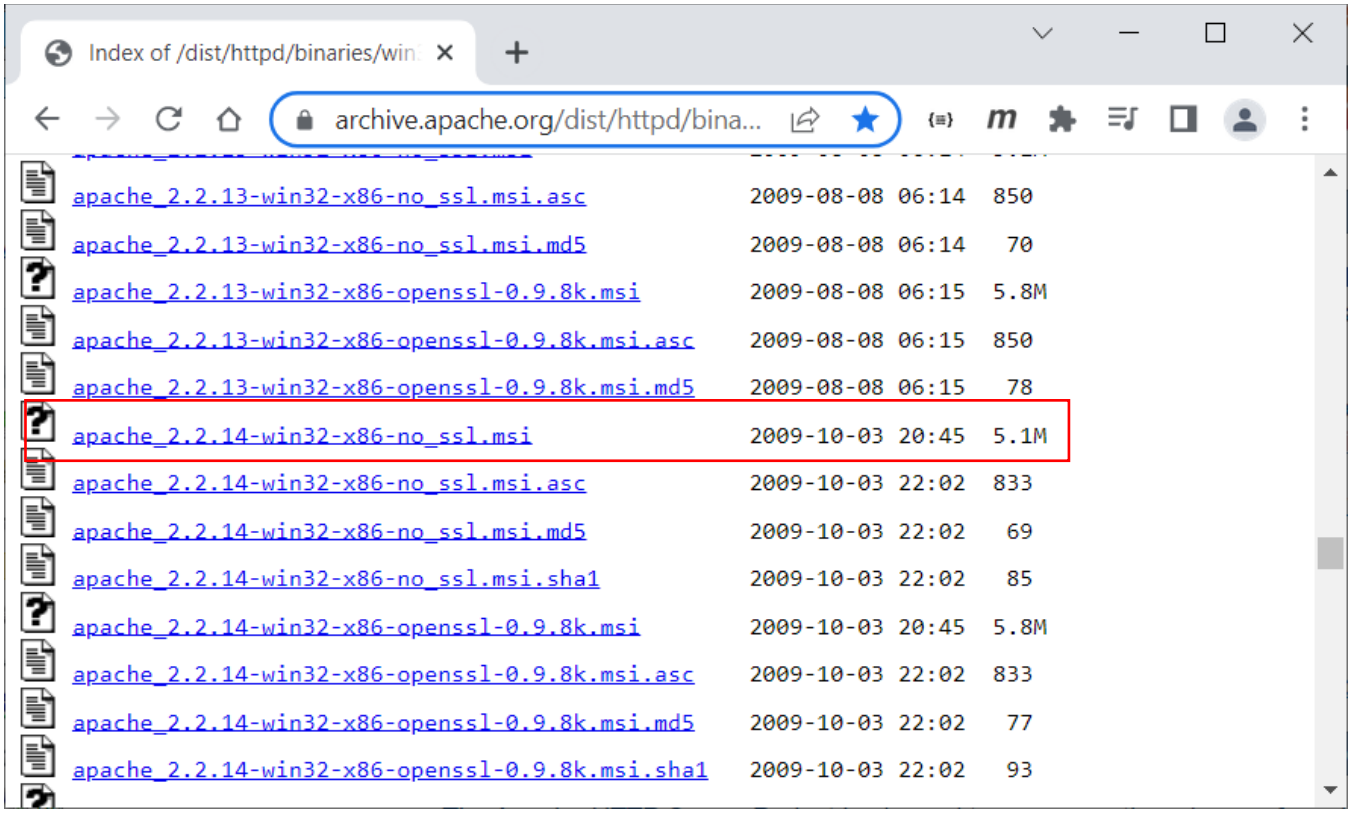
4.2 Button OK
When this button click then try to talk to the parent that this dialog is take action OK

4.3 Button Cancel
When this button click then try to talk to the parent that this dialog is take action Cancel

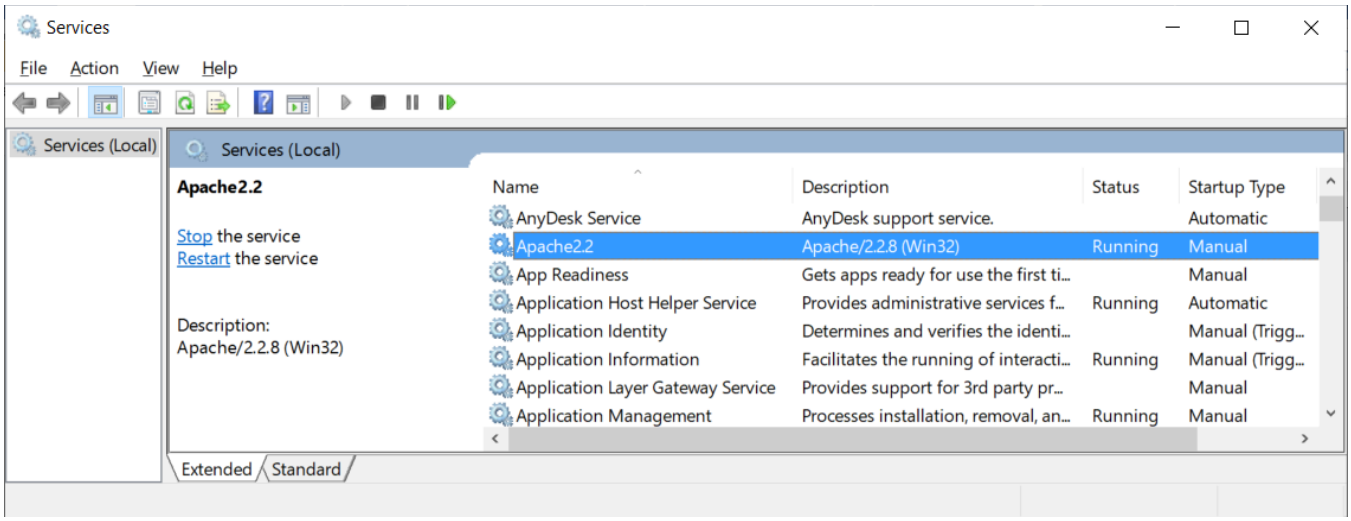
Exercise Requirement & Setting

This exercise required web server to provide html page request by browser. We need to install and launch Apache web server.

1. Go to https://httpd.apache.org/download.cgi (https://archive.apache.org/dist/httpd/binaries/win32/)



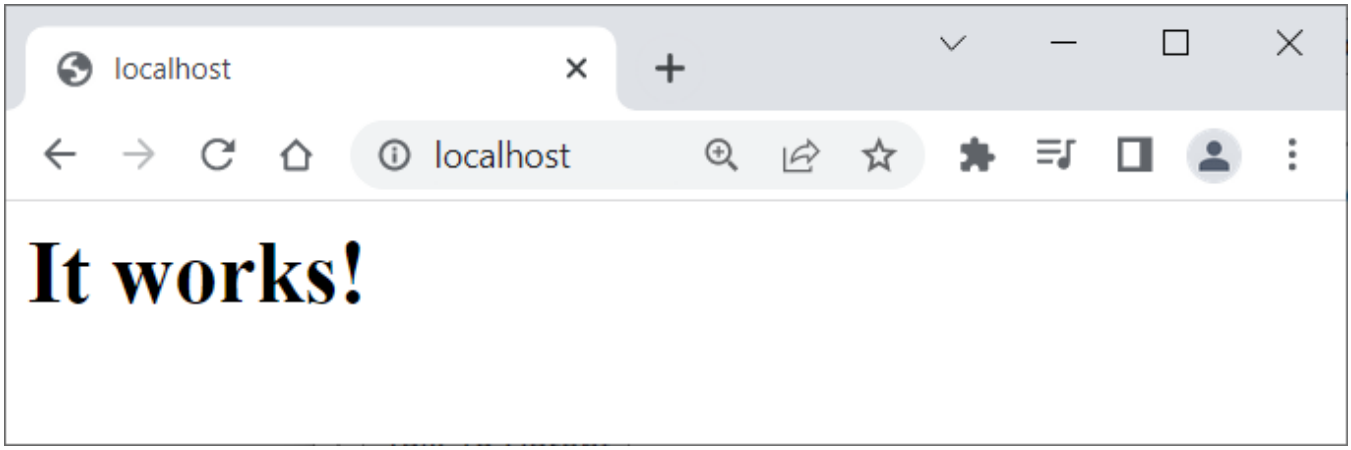
2. Download & Install
   After install completed it will register as a windows service you can make it start/stop from windows service



Caution: this step may be conflict with other service like IIS then make it sure that other service stopped and this Apache service is running.

3. Test

   Try to go to http://localhost/

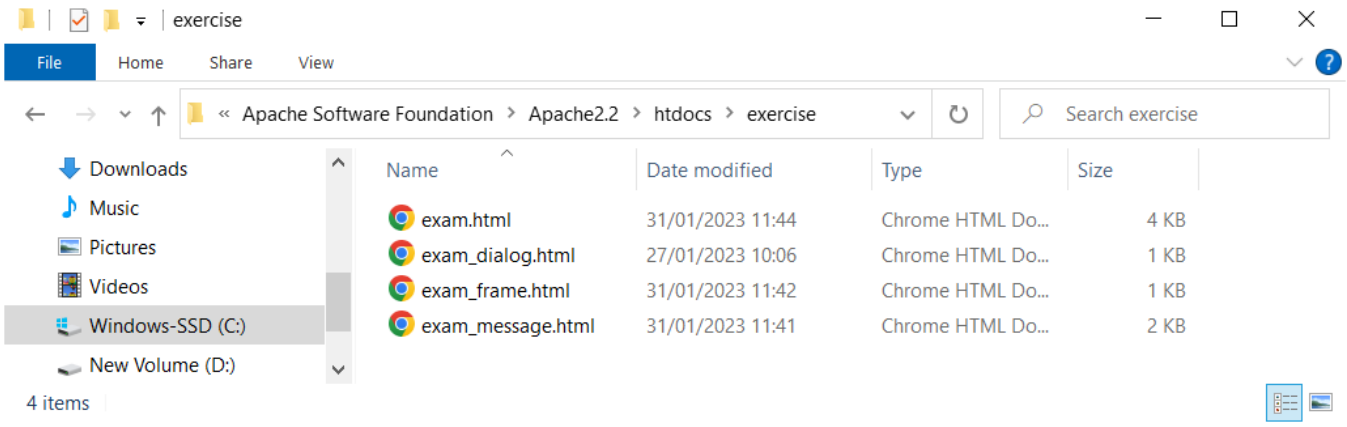


4. Setting Up

   By the default root or working directory of Apache is htdocs folder under Apache installation path

   ex. C:\Program Files (x86)\Apache Software Foundation\Apache2.2\htdocs

try to copy exercise folder under training course material to htdocs folder

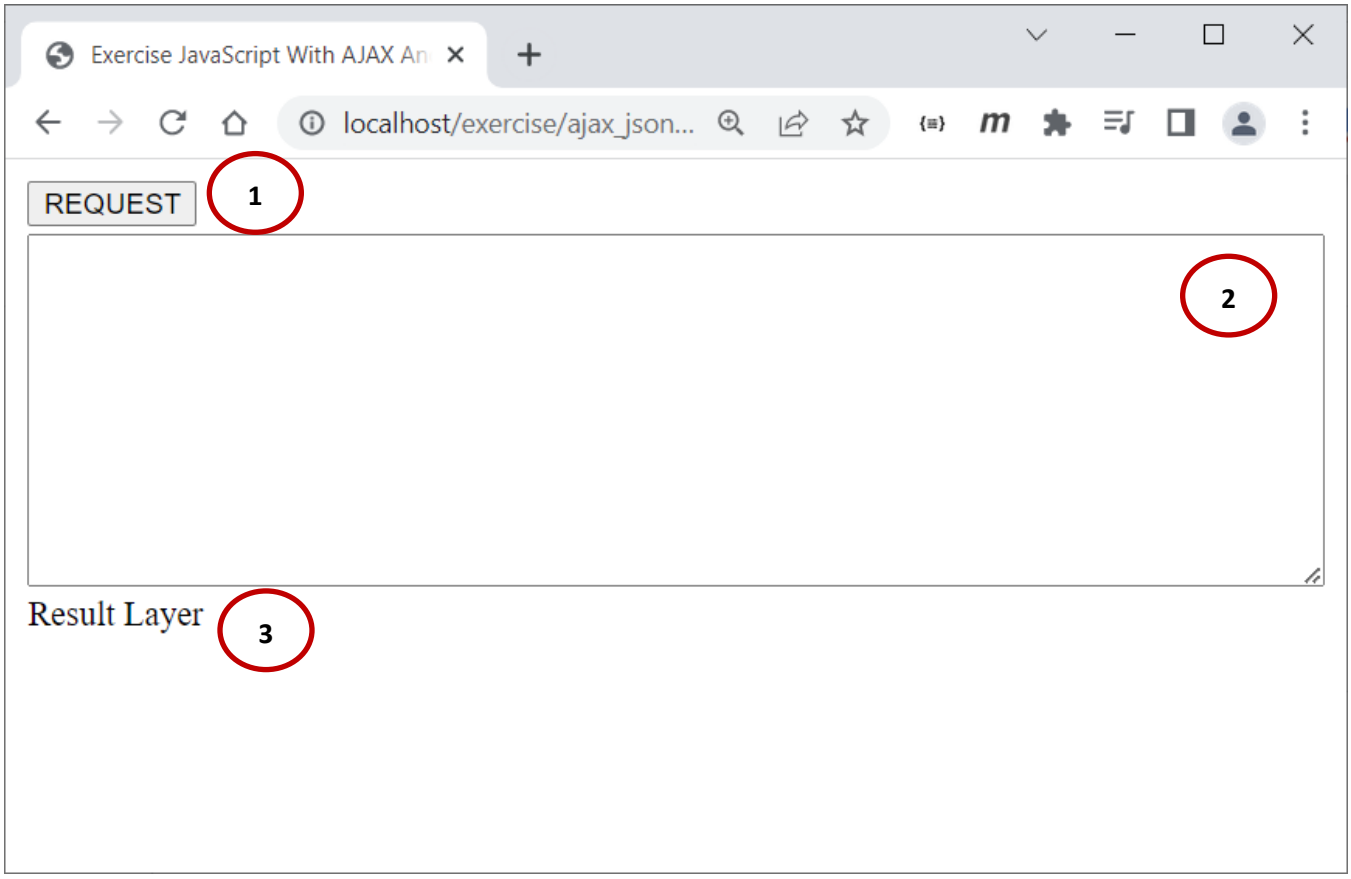


5. Launch Exercise

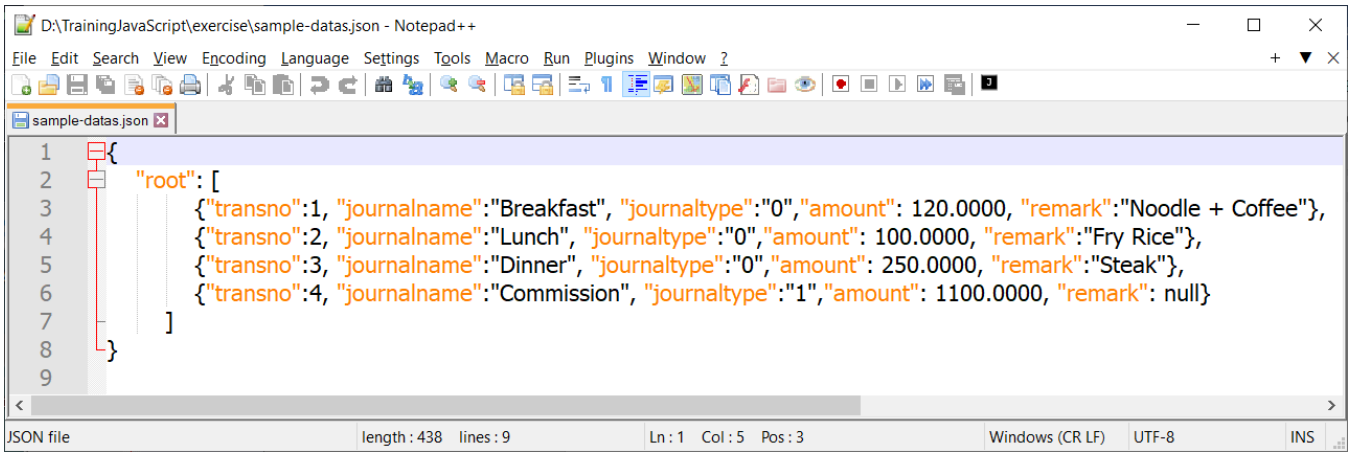
Try http://localhost/exercise/exam.html

JavaScript Exercise with AJAX & JSON

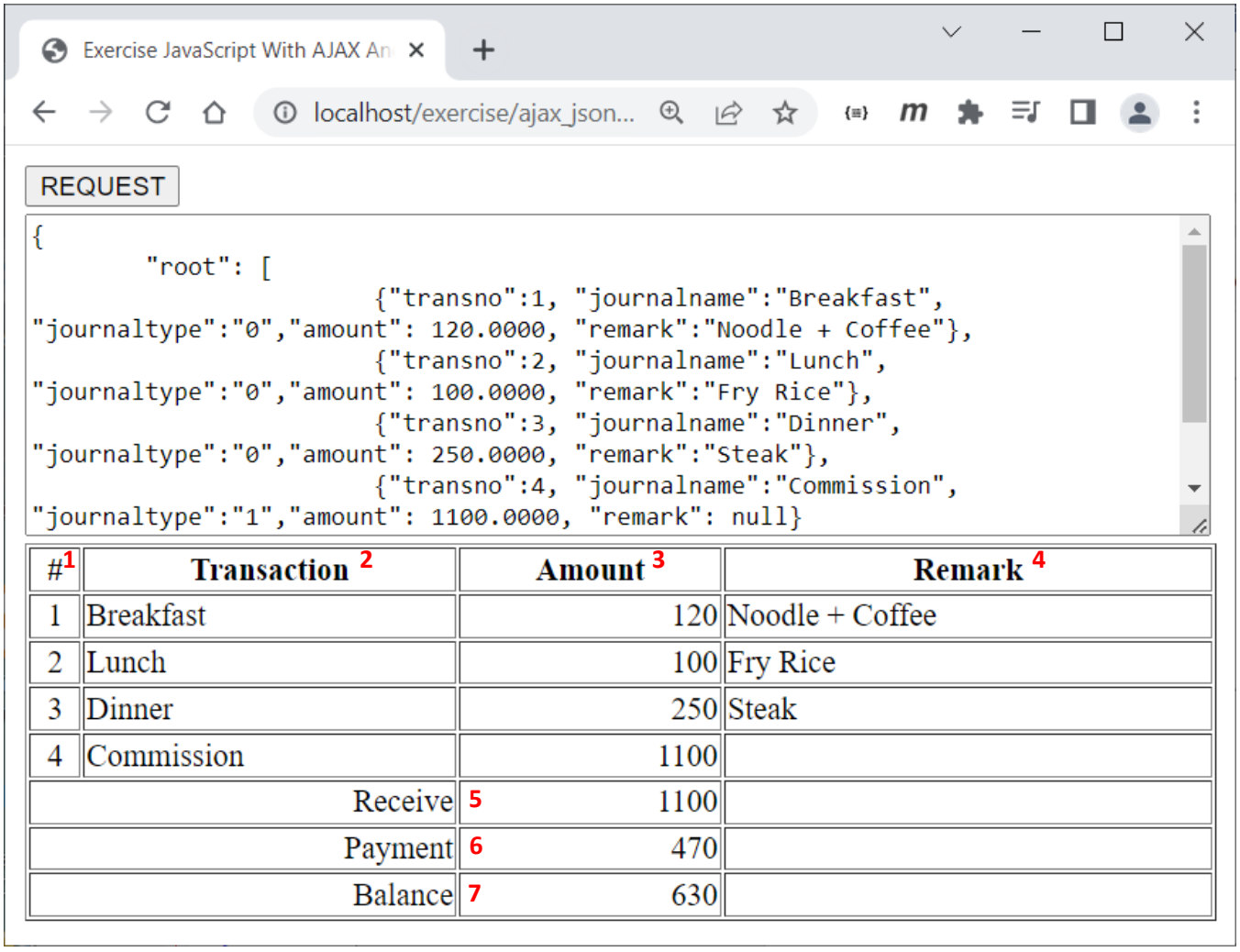
This exercise objective on using JavaScript with ajax & json data manipulate into html element by reading data in json format from ajax and then parse to json object.



Screen 3. ajax_json.html



Screen 4. sample-datas.json.html



#[1]	Transaction [2]	Amount [3]	Remark [4]
1	Breakfast	120	Noodle + Coffee
2	Lunch	100	Fry Rice
3	Dinner	250	Steak
4	Commission	1100	
	Receive [5]	1100	
	Payment [6]	470	
	Balance [7]	630	

Screen 5. ajax_json.html (Result)

Screen Definitions & Specifications

Screen 3. ajax_json.html

1. Button Request
   When this button click try to ajax get sample-datas.json file with schema format json like Screen 4.
   1.1 All file contents display to text area message from 2.
   1.2 Try to parse and display json data into table from 3.
2. Text Area Message
3. Result Layer

   Expect result by ajax from 1. with the following in screen 5.

Screen 5. ajax_json.html (Result)

1. Display transno value under root array elements
2. Display journalname value under root array elements
3. Display amount value under root array elements
4. Display remark value under root array elements (if null display blank)
5. Display receive amount value under root array elements (sum amount if journaltype='1')
6. Display pay amount value under root array elements (sum amount if journaltype='0')
7. Display balance amount = receive amount (5) – pay amount (6)