**Exercise 01\_11\_01 – Step 5**

solar.php

$WeatherSource = "https://api.forecast.io/forecast/  
 e47200c6db71286e09be758c685f9bd7/" .   
 $\_GET["lat"] . "," . $\_GET["lng"];

**Exercise 01\_11\_01 – Step 6**

script.js

// global variables

var selectedCity = "Tucson, AZ";

var weatherReport;

var httpRequest = false;

------------------------------------

script.js

var httpRequest = false;

function getRequestObject() {

alert("getRequestObject()");

}

------------------------------------

script.js

if (!httpRequest) {

httpRequest = getRequestObject();

}

------------------------------------

script.js

function getRequestObject() {

try {

httpRequest = new XMLHttpRequest();

}

catch (requestError) {

document.querySelector("p.error").innerHTML = "Forecast   
 not supported by your browser.";

document.querySelector("p.error").style.display =   
 "block";

return false;

}

return httpRequest;  
}

**Exercise 01\_11\_01 – Step 7**

script.js

if (!httpRequest) {

httpRequest = getRequestObject();

}

httpRequest.abort();

httpRequest.open("get", "solar.php?" + "lat=" + latitude +   
 "&lng=" + longitude, true );

httpRequest.send(null);

**Exercise 01\_11\_01 – Step 8**

script.js

function fillWeather() {

}

------------------------------------

script.js

function fillWeather() {

if (httpRequest.readyState === 4 &&   
 httpRequest.status === 200) {

weatherReport = JSON.parse(httpRequest.responseText);

}

}

------------------------------------

script.js

httpRequest.send(null);

httpRequest.onreadystatechange = fillWeather;

**Exercise 01\_11\_01 – Step 9**

script.js

if (httpRequest.readyState === 4 && httpRequest.status ===   
 200) {

weatherReport = JSON.parse(httpRequest.responseText);

var days =   
 ["Sunday","Monday","Tuesday","Wednesday",  
 "Thursday","Friday","Saturday"];

var dateValue = new   
 Date(weatherReport.daily.data[0].time);

var dayOfWeek = dateValue.getDay();

var rows = document.querySelectorAll  
 ("section.week table tbody tr");

document.querySelector("section.week table caption").  
 innerHTML = selectedCity;

}

------------------------------------

script.js

document.querySelector("section.week table   
 caption").innerHTML = selectedCity;

document.querySelector("section.week table   
 caption").style.display = "block";

document.querySelector("section.week   
 table").style.display = "inline-block";

------------------------------------

script.js

document.querySelector("section.week table caption").innerHTML = selectedCity;

for (var i = 0; i < rows.length; i++) {

var firstCell = rows[i].getElementsByTagName("td")[0];

var secondCell = rows[i].getElementsByTagName("td")[1];

var thirdCell = rows[i].getElementsByTagName("td")[2];

firstCell.innerHTML = days[dayOfWeek];

}

document.querySelector("section.week table caption").style.display = "block";

script.js

firstCell.innerHTML = days[dayOfWeek];

if (dayOfWeek + 1 === 7) {

dayOfWeek = 0;

}

else {

dayOfWeek++;

}

script.js

if (dayOfWeek + 1 === 7) {

dayOfWeek = 0;

}

else {

dayOfWeek++;

}

var sun = Math.round((1 -   
 weatherReport.daily.data[i].cloudCover) \*100, 0)

if (sun > 90) {

secondCell.style.color = "rgb(255,171,0)";

}

else if (sun > 80 && sun <= 90) {

secondCell.style.color = "rgb(255,179,25)";

}

else if (sun > 70 && sun <= 80) {

secondCell.style.color = "rgb(255,188,51)";

}

else if (sun > 60 && sun <= 70) {

secondCell.style.color = "rgb(255,196,77)";

}

else if (sun > 50 && sun <= 60) {

secondCell.style.color = "rgb(255,205,102)";

}

else if (sun > 40 && sun <= 50) {

secondCell.style.color = "rgb(255,213,128)";

}

else if (sun > 30 && sun <= 40) {

secondCell.style.color = "rgb(255,221,153)";

}

else if (sun > 20 && sun <= 30) {

secondCell.style.color = "rgb(255,230,179)";

}

else if (sun > 10 && sun <= 20) {

secondCell.style.color = "rgb(255,238,204)";

}

else if (sun <= 10) {

secondCell.style.color = "rgb(255,247,230)";

}

secondCell.style.fontSize = "2.5em";

thirdCell.innerHTML = sun + "%";

solar.html

</table>

<p class="credit">Powered by <a   
 href="http://forecast.io">forecast</a></p>

------------------------------------

script.js

document.querySelector("section.week table   
 caption").style.display = "block";

document.querySelector("section.week   
 table").style.display = "inline-block";

document.querySelector("section.week   
 p.credit").style.display = "block";

**Project 01\_11\_02**

script.js

"use strict";

/\* global variables \*/

var httpRequest = false;

var entry = "^IXIC";

------------------------------------

script.js

var httpRequest = false;

function getRequestObject() {

try {

httpRequest = new XMLHttpRequest();

}

catch (requestError) {

return false;

}

alert(httpRequest);

return httpRequest;

}

------------------------------------

script.js

if (window.addEventListener) {

window.addEventListener("load", getRequestObject, false);

}

else if (window.attachEvent) {

window.attachEvent("onload", getRequestObject);

}

------------------------------------

script.js

function stopSubmission(evt) {

alert("stopSubmission()");

if (evt.preventDefault) {

evt.preventDefault();

}

else {

evt.returnValue = false;

}

}

script.js

var form = document.getElementsByTagName("form")[0];

if (form.addEventListener) {

form.addEventListener("submit", stopSubmission, false);

window.addEventListener("load", getRequestObject, false);

}

else if (form.attachEvent) {

form.attachEvent("onsubmit", stopSubmission);

window.attachEvent("onload", getRequestObject);

}

------------------------------------

script.js

function getQuote() {

alert("getQuote()");

if (document.getElementsByTagName("input")[0].value) {

entry = document.getElementsByTagName("input")[0].value;

}

if (!httpRequest) {

httpRequest = getRequestObject();

}

}

------------------------------------

script.js

if (!httpRequest) {

httpRequest = getRequestObject();

}

httpRequest.abort();

httpRequest.open("get", "StockCheck.php?t=" + entry, true);

httpRequest.send(null);

------------------------------------

script.js

httpRequest.abort();

httpRequest.open("get", "StockCheck.php?t=" + entry, true);

httpRequest.send(null);

httpRequest.onreadystatechange = displayData;

script.js

function displayData() {

if (httpRequest.readyState === 4 && httpRequest.status ===   
 200) {

var stockResults = httpRequest.responseText;

console.log(stockResults);

}

}

------------------------------------

script.js

var stockResults = httpRequest.responseText;

console.log(stockResults);

var stockItems = stockResults.split(/,|\"/);

console.log(stockItems);

------------------------------------

script.js

var stockItems = stockResults.split(/,|\"/);

console.log(stockItems);

for (var i = stockItems.length - 1; i >= 0; i--) {

if (stockItems[i] === "") {

stockItems.splice(i, 1);

}

}

console.log(stockItems);

------------------------------------

script.js

for (var i = stockItems.length - 1; i >= 0; i--) {

if (stockItems[i] === "") {

stockItems.splice(i, 1);

}

}

document.getElementById("ticker").innerHTML =   
 stockItems[0];

script.js

document.getElementById("ticker").innerHTML =   
 stockItems[0];

document.getElementById("openingPrice").innerHTML =   
 stockItems[6];

document.getElementById("lastTrade").innerHTML =   
 stockItems[1];

document.getElementById("lastTradeDT").innerHTML =   
 stockItems[2] + ", " + stockItems[3];

document.getElementById("change").innerHTML =   
 stockItems[4];

document.getElementById("range").innerHTML =   
 (stockItems[8] \* 1).toFixed(2) + " &ndash; " +   
 (stockItems[7] \* 1).toFixed(2);

document.getElementById("volume").innerHTML =   
 (stockItems[9] \* 1).toLocaleString();

------------------------------------

script.js

function formatTable() {

var rows = document.getElementsByTagName("tr");

for (var i = 0; i < rows.length; i++) {

rows[i].style.background = "#9FE098";

}

}

------------------------------------

script.js

if (form.addEventListener) {

form.addEventListener("submit", stopSubmission, false);

window.addEventListener("load", formatTable, false);

window.addEventListener("load", getQuote, false);

}

else if (form.attachEvent) {

form.attachEvent("onsubmit", stopSubmission);

window.attachEvent("onload", formatTable);

window.attachEvent("onload", getQuote);

}

script.js

function getQuote() {

console.log("getQuote()");

if (document.getElementsByTagName("input")[0].value) {

entry = document.getElementsByTagName("input")[0].value;

}

if (!httpRequest) {

httpRequest = getRequestObject();

}

httpRequest.abort();

httpRequest.open("get", "StockCheck.php?t=" + entry, true);

httpRequest.send(null);

httpRequest.onreadystatechange = displayData;

clearTimeout(updateQuote);

var updateQuote = setTimeout('getQuote()', 10000);

}

**Project 01\_11\_03**

Stocks.html

<header>

<h1>

Project 01\_11\_03

</h1>

</header>

------------------------------------

script.js

if (httpRequest.readyState === 4 && httpRequest.status ===   
 200) {

var stockResults = httpRequest.responseText;

console.log(stockResults);

------------------------------------

script.js

function displayData() {

console.log("httpRequest.readyState: " +   
 httpRequest.readyState);

console.log("httpRequest.status: " + httpRequest.status);

------------------------------------

StockCheck.php

//header("Content-Type: text/csv");

//$Quote =   
"http://quote.yahoo.com/d/quotes.csv?  
 s=$TickerSymbol&f=sl1d1t1c1p2ohgv";

header("Content-Type: application/json");

$Quote = "https://api.iextrading.com/1.0/ref-data/symbols";

------------------------------------

StockCheck.php

$Quote =   
 "https://api.iextrading.com/1.0/stock/$TickerSymbol/quote";

------------------------------------

script.js

/\* global variables \*/

var httpRequest = false;

var entry = "MSFT";

script.js

function getQuote() {

if (document.getElementsByTagName("input")[0].value) {

entry = document.getElementsByTagName("input")[0].value;

}

else {

document.getElementsByTagName("input")[0].value = entry;

}

------------------------------------

script.js

var stockResults = httpRequest.responseText;

console.log(stockResults);

var stockItems = JSON.parse(stockResults);

console.log(stockItems.symbol);

document.getElementById("ticker").innerHTML =   
 stockItems[0];

------------------------------------

script.js

console.log(stockItems.symbol);

document.getElementById("ticker").innerHTML =   
 stockItems.symbol;

------------------------------------

script.js

document.getElementById("ticker").innerHTML =   
 stockItems.symbol;

document.getElementById("openingPrice").innerHTML =   
 stockItems.open;

document.getElementById("lastTrade").innerHTML =   
 stockItems.latestPrice;

var date = new Date(stockItems.latestUpdate);

document.getElementById("lastTradeDT").innerHTML =   
 date.toDateString() + "<br>" +   
 date.toLocaleTimeString();

document.getElementById("change").innerHTML =   
 (stockItems.latestPrice -   
 stockItems.open).toFixed(2);

document.getElementById("range").innerHTML = "Low " +   
 (stockItems.low \* 1).toFixed(2) + "<br>High " +   
 (stockItems.high \* 1).toFixed(2);

document.getElementById("volume").innerHTML =   
 (stockItems.latestVolume \* 1).toLocaleString();

stocks.html

<input type="submit" value="Get Quote" />

<br><br>

<p>

Data provided for free by

<a href="https://iextrading.com/developer/">

IEX</a>

</p>

<p>

View

<a href="https://iextrading.com/api-exhibit-a/">  
 IEX’s Terms of Use</a>

</p>

**Project 01\_11\_04**

script.js

"use strict";

var httpRequest = false;

------------------------------------

script.js

var zip = document.getElementById("zip");

if (zip.addEventListener) {

zip.addEventListener("keyup", checkInput, false);

}

else if (zip.attachEvent) {

zip.attachEvent("onkeyup", checkInput);

}

------------------------------------

script.js

var httpRequest = false;

function checkInput() {

alert("checkInput()");

}

------------------------------------

script.js

function checkInput() {

var zip = document.getElementById("zip").value;

if (zip.length === 5) {

getLocation()

}

else {

document.getElementById("city").value = "";

document.getElementById("state").value = "";

}

}

------------------------------------

script.js

function getLocation() {

console.log("getLocation()");

}

script.js

function getLocation() {

var zip = document.getElementById("zip").value;

if (!httpRequest) {

httpRequest = getRequestObject();

}

}

------------------------------------

script.js

function getRequestObject() {

try {

httpRequest = new XMLHttpRequest();

}

catch (requestError) {

return false;

}

console.log(httpRequest);

return httpRequest;

}

------------------------------------

script.js

catch (requestError) {

document.getElementById("csset").style.visibility =   
 "visible";

var zip = document.getElementById("zip").value;

if (zip.addEventListener) {

zip.removeEventListener("keyup", checkInput, false);

}

else if (zip.attachEvent) {

zip.detachEvent("onkeyup", checkInput);

}

return false;

}

------------------------------------

script.js

try {

httpRequest = new ~~XML~~HttpRequest();

}

script.js

function getLocation() {

var zip = document.getElementById("zip").value;

if (!httpRequest) {

httpRequest = getRequestObject();

}

httpRequest.abort();

httpRequest.open("get", "http://api.zippopotam.us/us/" +   
 zip, true);

httpRequest.send(null);

}

------------------------------------

script.js

httpRequest.abort();

httpRequest.open("get", "http://api.zippopotam.us/us/" +   
 zip, true);

httpRequest.send(null);

httpRequest.onreadystatechange = displayData;

------------------------------------

script.js

function displayData() {

if (httpRequest.readyState === 4 && httpRequest.status ===   
 200) {

var resultData = JSON.parse(httpRequest.responseText);

console.log(resultData);

}

}

------------------------------------

script.js

function displayData() {

if (httpRequest.readyState === 4 && httpRequest.status ===   
 200) {

var resultData = JSON.parse(httpRequest.responseText);

var city = document.getElementById("city");

var state = document.getElementById("state");

city.value = resultData.places[0]["place name"];

state.value = resultData.places[0]["state   
 abbreviation"];

document.getElementById("zip").blur();

document.getElementById("csset").style.visibility =   
 "visible";

}

}

address.html

<form>

<fieldset id="countryset">

<label for="germany"   
 id="germanylabel">Germany</label>

<input id="germany" type="radio" value="germany"   
 name="country" />

<label for="us" id="uslabel">United   
 States</label>

<input id="us" type="radio" value="us"   
 name="country" />

</fieldset>

------------------------------------

script.js

var httpRequest = false;

var countrySel;

------------------------------------

script.js

var germany = document.getElementById("germany");

var us = document.getElementById("us");

if (us.addEventListener) {

germany.addEventListener("click", checkButtons, false);

us.addEventListener("click", checkButtons, false);

}

else if (us.attachEvent) {

germany.attachEvent("onclick", checkButtons);

us.attachEvent("onclick", checkButtons);

}

script.js

function checkButtons() {

var germany = document.getElementById("germany");

var us = document.getElementById("us");

if (germany.checked || us.checked) {

document.getElementById("zipset").style.visibility =   
 "visible";

if (germany.checked) {

countrySel = "de";

}

else {

countrySel = "us";

}

}

}

------------------------------------

script.js

httpRequest.open("get",   
 "http://api.zippopotam.us/" + countrySel +"/" + zip,   
 true);

------------------------------------

script.js

catch (requestError) {

document.getElementById("zipset").style.visibility =   
 "visible";

document.getElementById("csset").style.visibility =   
 "visible";

var germany = document.getElementById("germany");

var us = document.getElementById("us");

var zip = document.getElementById("zip").value;

if (zip.addEventListener) {

germany.removeEventListener("click", checkButtons,   
 false);

us.removeEventListener("click", checkButtons,   
 false);

zip.removeEventListener("keyup", checkInput, false);

} else if (zip.attachEvent) {

germany.detachEvent("onclick", checkButtons);

us.detachEvent("onclick", checkButtons);

zip.detachEvent("onkeyup", checkInput);

}

return false;

}

styles.cs

#zipset, #csset {

visibility: hidden;

}