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<!DOCTYPE html>
<html>
<head>
<meta charset="utf-8">
<title>HW8 - Exploring APIs</title>
<style type="text/css">
h3 {
padding-left: 100px;
}
ol {
padding-right: 400px;
padding-left: 50px;
}
li {
padding: 10px 10px;
}
</style>
</head>

<script language="javascript">
function getNews() {
request = new XMLHttpRequest();
var apiKey = "5ab2240b18044883856d8375a6ec929f";
var url = 'https://newsapi.org/v2/top-headlines?country=us&apiKey=' + apiKey;
request.open("GET", url, true);

request.onreadystatechange = function() {

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

result = request.responseText;
news = JSON.parse(result);
var title_full = news.articles[0].title;

var title_shortened = title_full.substring(0, title_full.indexOf('-'));
if (!(title_shortened === title_full))
title_shortened = title_full.substring(0, title_full.indexOf('|'));

document.getElementById("source").innerHTML = "<h3>Source: " + news.articles[0].source.name + "</h3>";
document.getElementById("author").innerHTML = "<h3>Author(s): " + news.articles[0].author + "</h3>";
document.getElementById("title").innerHTML = "<h3>Title: " + title_shortened + "</h3>";
document.getElementById("description").innerHTML = "<h3>Short Description: " + news.articles[0].description + "</h3>";
}
}
request.send();
}
</script>

<body>

<h2 style='padding:5px 5px;'>Homework 6 <br> Max Ramer <br> 11/12/19 <hr> </h2>

<h2>News API - Today's Top Story:</h2>
<div id="source">&nbsp;</div>
<div id="author">&nbsp;</div>
<div id="title">&nbsp;</div>
<div id="description">&nbsp;</div>
<script language="javascript">getNews()</script>

<h2 style='padding:5px 5px;'><hr>Answers to Homework Questions:</h2>
<p>
<ol>
<li>The selected API is called "News API" and allows clients to retrieve a JSON object containing an array of the day's top news articles using the GET method. The JSON also provides info about the articles including the source, author(s), and date of publication.</li>

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<li>I found the API on the following website that lists the top 30 free APIs: <a href="https://rapidapi.com/collection/list-of-free-apis" target="\_blank">https://rapidapi.com/collection/list-of-free-apis</a>. The link to the API homepage is the following: <a href="https://newsapi.org" target="\_blank">https://newsapi.org/</a>.</li>

<li>In order to retrieve the data, I generated an access token on the News API website and appended it to the end of the link. In the link, I specified, the current version of the API (v2), the type of articles to retrieve (top-headlines), the country (U.S.), and my API key as explained before. These options provided the JSON object with the top news headlines in the U.S. of the day.</li>

<li>This API would be helpful in creating a website for an online town newspaper. Furthermore, the API could be useful for stock traders because one could specify to retrieve the most current news regarding the economy. An application could then be developed to alert traders when there is negative or positive news about a certain company.</li>

</ol>

</p>

</body>

</html>