# Web Technologies

### Assignment - 4

### -: Submitted By :-

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### -: Submitted to :-

Nagender Kumar S. Professor



School of Computer and Information Sciences, University of Hyderabad 1. Write JS code that reads XML files and print the details as tabular data. (Assume appropriate members and data for the design and development of the required application).

#### Index.html

```
!DOCTYPE html>
<html lang="en">
  <title>Question 1 | 20MCMB15-IT</title>
  <meta charset="utf-8">
  <link rel="stylesheet"</pre>
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.cs
<script type="text/javascript" src="read.js"></script>
cellpadding='10px' style="text-align:left;">
                First Name
                Last Name
                RollNo
                Contact No.
                Email
                Address
                Department
```

```
</div>
</body>
</html>
```

#### read.js

```
const URL = "data.xml";
fetch(URL).then(response => response.text()).then(data => {
   let table = document.getElementById('student record');
   let parser = new DOMParser();
   let xmlData = parser.parseFromString(data, "text/xml");
   let students = xmlData.querySelectorAll('student');
   for (let i = 0; i < students.length; i++) {</pre>
       let student = students[i];
       console.log(student.children[0].innerHTML);
       console.log(student.children[1].innerHTML);
       console.log(student.children[2].innerHTML);
       console.log(student.children[3].innerHTML);
       console.log(student.children[4].innerHTML);
       console.log(student.children[5].innerHTML);
       console.log(student.children[6].innerHTML);
           ${student.children[0].innerHTML}
```

#### data.xml

```
?xml version = "1.0" encoding = "UTF-8"?>
     <firstName>Sachin</firstName>
     <lastName>Sah
     <rollNo>20MCMB15</rollNo>
     <contactNo>7802008521/contactNo>
     <email>sachinsah@engineer.com
        <City>Surat</City>
         <State>Gujarat</State>
        <Zip>394230</Zip>
     <department>Information Technology</department>
     <firstName>Suvam</firstName>
     <lastName>Basak
     <rollNo>20MCMB08</rollNo>
     <contactNo>9685745214
     <email>20MCMB08@uohyd.ac.in
        <City>Howrah</City>
        <State>Kolkota</State>
```

```
<Zip>994230</Zip>
<department>Information Technology</department>
<firstName>Jitendra</firstName>
<lastName>Gangwar
<rollNo>20MCMB04</rollNo>
<contactNo>9666875454
<email>20MCMB04@uohyd.ac.in
   <City>Meerat</City>
   <State>Uttar Pradesh
   <Zip>694230</Zip>
<department>Information Technology</department>
<firstName>Aishwariya</firstName>
<lastName>Kulshrestha
<rollNo>20MCMB12</rollNo>
<contactNo>9666874554
<email>20MCMB12@uohyd.ac.in
   <State>Uttar Pradesh</State>
   <Zip>664230</Zip>
<department>Information Technology</department>
<firstName>Ramya</firstName>
<lastName>Bhargavi</lastName>
<rollNo>20MCMI04</rollNo>
<contactNo>9665575454
<email>20MCMI04@uohyd.ac.in
   <City>Hyderabad</City>
   <State>Telangana</State>
   <Zip>594230</Zip>
```

#### **OUTPUT:**

Activities <b>ॐ</b> Firefox Web Browser ▼				Арг 10 11:11		<b>≡ ♥ •</b> ) + <b>Î</b> •
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← → C û 127.0.0.1:5500/index					<b></b> ⊌ ☆	IIN 🗊 🎂 🔀 🗏
First Name	Last Name	RollNo	Contact No.	Email	Address	Department
Sachin	Sah	20MCMB15	7802008521	sachinsah@engineer.com	Surat Gujarat 394230	Information Technology
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Aishwariya	Kulshrestha	20MCMB12	9666874554	20MCMB12@uohyd.ac.in	Lucknow Uttar Pradesh 664230	Information Technology
Ramya	Bhargavi	20MCMI04	9665575454	20MCMI04@uohyd.ac.in	Hyderabad Telegana 594230	Artificial Intelligence
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 Develop an application using HTML, CSS and Java Script such that access to XMLdata from URL parameters will display the data based on the search keywords mentioned in the textbox. (Assume appropriate members and data for the design and development of the required application).

#### index.html

```
<html lang="en">
  <meta charset="utf-8">
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta2/dist/css/bootstra
o.min.css" rel="stylesheet"
integrity="sha384-BmbxuPwQa2lc/FVzBcNJ7UAyJxM6wuqIj61tLrc4wSX0szH/Ev+nYRRu
Wlolflfl" crossorigin="anonymous">
  <title>MyEngine.com | 20MCMB15</title>
          text-align: center;
          background-color: black;
          color: blanchedalmond;
       #logostyle {
          font-size: 90px;
          margin-top: 95px;
          margin-bottom: 50px;
          padding: 10px;
```

```
padding-top: 10px;
        padding-bottom: 10px;
       padding-right: 20px;
       padding-left: 25px;
       font-size: 25px;
       border-radius: 27px;
       box-shadow: 1px 1px 1px #a1a1a1;
       margin-top: 30px;
       margin-bottom: 100px;
<script type="text/javascript" src="main.js"></script>
<div class="container">
   <h5 class="card-title" id="title"></h5>
        <div class="col-md-5">
            <h1 id="logostyle"><strong> MyEngine </strong></h1>
```

```
<input class="form-control" type="text" placeholder="Write"</pre>
the keywords here..." id="search bar">
      <div class="row">
                   <button type="button" class="btn btn-light btn-lg</pre>
btn-outline-dark" onclick="search()">Search</button>
                   <button type="button" class="btn btn-light btn-lg</pre>
btn-outline-dark" style="margin-left: 5px;">I'm feeling lucky</button>
  <div>India <br>
Terms    Setting </span>
```

#### <u>main.js</u>

```
// Function to validate and redirect to output page.
function search() {
    // extracting keyword.
    var searchKey =
document.getElementById('search_bar').value.trim().toLowerCase();
    // If not empty then redirect to the result page.
    if ('' != searchKey) {
```

```
window.location.href = 'output.html?search=' + searchKey;
}else{
    alert("Please Enter any keyword !");
}
```

#### output.html

```
<html lang="en">
<head>
  <meta charset="utf-8">
shrink-to-fit=no">
  <link rel="stylesheet"</pre>
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.cs
integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJ1SAwiGgFAW/
dAiS6JXm" crossorigin="anonymous">
  <title>Searched Output</title>
  h1 {
       font-size: 5em;
  <script type="text/javascript" src="search.js"></script>
  <div class="container" style="margin-top: 100px;">
```

#### search.js

```
// retrieve searched keyword from URL.
let params = new URLSearchParams(window.location.search);
const searchKey = params.get('search');

// XML data file.
const URL = "data.xml";

// Fetch the XML as text.

fetch(URL).then(response => response.text()).then(data => {
    let title = document.getElementById('title');
    let content = document.getElementById('content');

// Parsing XML file.
let parser = new DOMParser();
let xmlData = parser.parseFromString(data, "text/xml");
// Quering the XML with data.
```

```
let searchDataSets = xmlData.querySelectorAll('data');

var searchFlag = true;

// Loop through all the details.
for (let i = 0; i < searchDataSets.length; i++) {
    let searchData = searchDataSets[i];
    // Compare
    if (searchData.children[0].innerHTML == searchKey) {
        searchFlag = false;

        // Show the details.
        title.innerHTML = '<hl>' + searchKey +'</hl>';
        content.innerHTML = '<h3>' + searchData.children[1].innerHTML
+ '</h3>';
    }
}

// If keyword not found in XML.
if (searchFlag) {
    console.log('NOT FOUND!');
    content.innerHTML = '<hl>Ooops!</hl> NOT FOUND';
}
```

#### data.xml

```
Extensible Markupa Language is a markup language that defines a set
of rules for encoding documents in a format that is both human-readable
and machine-readable.
       <keyword>android</keyword>
    Android is a mobile operating system based on a modified version of
the Linux kernel and other open source software, designed primarily for
touchscreen mobile devices such as smartphones and tablets.
      <keyword>javascript</keyword>
     JavaScript, often abbreviated as JS, is a programming language that
conforms to the ECMAScript specification.
     The HyperText Markup Language, or HTML is the standard markup
language for documents designed to be displayed in a web browser.
```

#### **OUTPUT:**

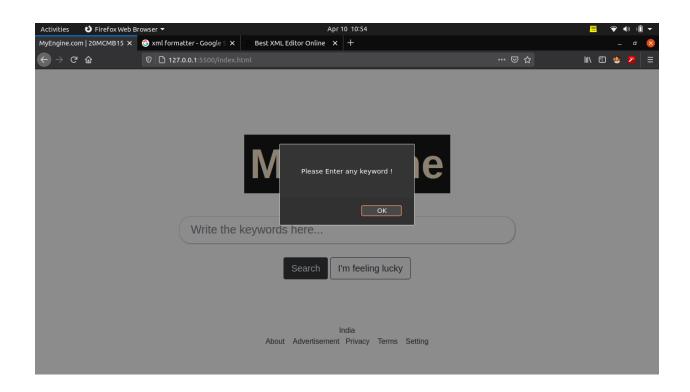


# MyEngine

Write the keywords here...

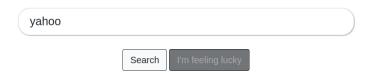
Search I'm feeling lucky

India About Advertisement Privacy Terms Setting



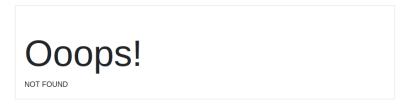


# MyEngine



India About Advertisement Privacy Terms Setting





Back to Search



# MyEngine





### firebase

Firebase is a platform developed by Google for creating mobile and web applications. It was originally an independent company founded in 2011. In 2014, Google acquired the platform and it is now their flagship offering for app development. Wikipedia

Back to Search