Web Technologies

Assignment - 5

-: Submitted By :-

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-: Submitted to :-

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School of Computer and Information Sciences, University of Hyderabad 1)Develop an application using HTML, CSS and Java Script such that access to JSON data 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
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;
    #btn set {
        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="row justify-content-center">
        <div class="col-md-5">
            <h1 id="logostyle"><strong> MyEngine </strong></h1>
        <div class="col-md-8">
```

```
<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
S 11
integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/
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;">
          <div class="card w-75">
```

search.js

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

// JSON data file url
const URL = "data.json";

//let title = document.getElementById('title');
//let content = document.getElementById('content');

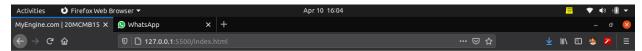
var searchFlag = true;
  fetch(URL).then(response => response.json()).then(jsonResponse => {
    var searchFlag = true;

    // Iteratation over data
    for (let i = 0; i < jsonResponse.data.length; i++) {
        // Compare
        if (searchKey == jsonResponse.data[i].keyword) {
            searchFlag = false;
            console.log(jsonResponse.data[i].description);</pre>
```

data.json

```
},
{
    "keyword": "javascript",
    "description": "JavaScript, often abbreviated as JS, is a programming
language that conforms to the ECMAScript specification."
    },
    {
        "keyword": "html",
        "description": "The HyperText Markup Language, or HTML is the
standard markup language for documents designed to be displayed in a web
browser."
    }
}
```

OUTPUT:

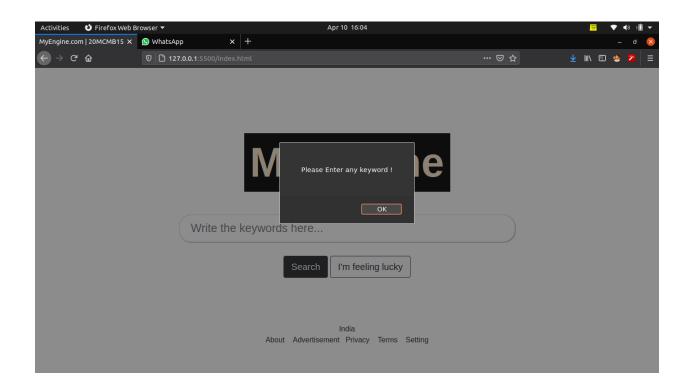


MyEngine

Write the keywords here...

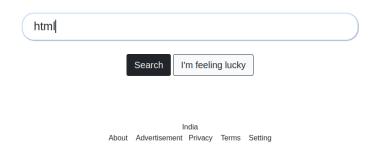
Search I'm feeling lucky

India
About Advertisement Privacy Terms Setting





MyEngine





html

The HyperText Markup Language, or HTML is the standard markup language for documents designed to be displayed in a web browser.

Back to Search

2)Write JS code that reads XML file or JSON file 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

```
fetch(URL).then(response => response.json()).then(jsonResponse => {
         for (let i = 0; i < jsonResponse.student.length; i++) {</pre>
             let row = <tr>
                 ${jsonResponse.student[i].firstName}
                 ${jsonResponse.student[i].lastName}
                 ${jsonResponse.student[i].rollNo}
                 ${jsonResponse.student[i].contactNo}
                 ${jsonResponse.student[i].email}
                 ${jsonResponse.student[i].address.City}
${jsonResponse.student[i].address.State}
${jsonResponse.student[i].address.Zip}
                 ${jsonResponse.student[i].department}
             document.getElementById('student record').innerHTML += row;
```

data.json

```
"firstName": "Sachin",
"lastName": "Sah",
"rollNo": "20MCMB15",
"email": "sachinsah@engineer.com",
"address": {
  "State": "Gujarat",
  "Zip": "394230"
"department": "Information Technology"
"firstName": "Suvam",
"lastName": "Basak",
"rollNo": "20MCMB08",
"contactNo": "9685745214",
"email": "20MCMB08@uohyd.ac.in",
"address": {
  "State": "Kolkota",
  "Zip": "994230"
"department": "Information Technology"
"firstName": "Jitendra",
"lastName": "Gangwar",
"rollNo": "20MCMB04",
"contactNo": "9666875454",
"address": {
   "City": "Meerat",
  "State": "Uttar Pradesh",
  "Zip": "694230"
```

```
"department": "Information Technology"
"firstName": "Aishwariya",
"lastName": "Kulshrestha",
"rollNo": "20MCMB12",
"contactNo": "9666874554",
"address": {
   "City": "Lucknow",
   "State": "Uttar Pradesh",
  "Zip": "664230"
"department": "Information Technology"
"firstName": "Ramya",
"rollNo": "20MCMI04",
"contactNo": "9665575454",
"email": "20MCMI04@uohyd.ac.in",
"address": {
   "State": "Telegana",
  "Zip": "594230"
"department": "Artificial Intelligence"
"firstName": "Amit",
"lastName": "Kumar",
"rollNo": "20MCMB14",
"email": "20MCMB14@uohyd.ac.in",
"address": {
  "State": "Delhi",
"department": "Information Technology"
```

```
}
]
```

OUTPUT:

