## **INDEX**

SR NO.	TITLE	DATE	PAGE NO.	SIGN
/1\	AJAX PROGRAMS LIST :			
(1)	Write JavaScript program that uses AJAX to read XML file and display its contents.      Write JavaScript program that uses AJAX to		2	
	read JSON file and display its contents.		4	
(2)	JQUERY PROGRAMS LIST :			
(2)				
	<ol> <li>Create a registration form as shown in following figure and use jQuery to</li> <li>I. enable / disable the Signup button onselection of checkbox of "I agree on terms and conditions".</li> </ol>		6	
	<ul><li>II. display number of characters left for "password" field.</li><li>III. on focus and on blur, change the color of all three input boxes.</li></ul>			
	<ol> <li>Create a webpage that uses jQuery to display different animation effects with different HTML elements, on click of respective buttons.</li> </ol>		10	
(3)	NODE JS PROGRAMS LIST :			
	<ol> <li>Write nodeJS program to split query string from url.</li> </ol>		12	
	<ol> <li>Write nodeJS program to reads query string from url using req.url and sends appropriate response.</li> <li>write nodeJS program to read URL, parse it to JS</li> </ol>		12	
	object and display it's properties.		13	
	<ol> <li>Create user defined module in nodeJS that exports an object.</li> </ol>		13	
	<ol><li>Create user defined module in nodeJS that exports a function.</li></ol>		14	
	<ul> <li>6. Write nodeJS program that <ol> <li>creates one file</li> <li>writes one line to the file</li> <li>appends one line to the file</li> <li>read the file</li> <li>delete the file.</li> </ol> </li> </ul>		14	

### **AJAX PROGRAMS LIST**

1. Write JavaScript program that uses AJAX to read XML file and display its contents.

```
------ index.html
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>AJAX to read XML file</title>
</head>
<body>
 <h1>AJAX to Read XML files</h1>
  <button onclick="myfun()">Click Me</button>
  <div>
    </div>
  <script>
    function myfun()
    {
      const xhttp = new XMLHttpRequest();
      xhttp.onload = function ()
     {
        document.getElementById("demo").innerHTML = this.responseText;
      xhttp.open("GET", "Product.xml", true);
      xhttp.send();
   }
  </script>
</body>
```

```
</html>
-----Product.xml------
<?xml version="1.0" encoding="UTF-8"?>
<breakfast_menu>
<food>
 <name>Belgian Waffles</name>
  <price>$5.95</price>
 <description>
 Two of our famous Belgian Waffles with plenty of real maple syrup
 </description>
  <calories>650</calories>
</food>
<food>
  <name>Strawberry Belgian Waffles</name>
  <price>$7.95</price>
  <description>
 Light Belgian waffles covered with strawberries and whipped cream
  </description>
 <calories>900</calories>
</food>
<food>
  <name>Berry-Berry Belgian Waffles</name>
  <price>$8.95</price>
  <description>
 Belgian waffles covered with assorted fresh berries and whipped cream
  </description>
  <calories>900</calories>
</food>
<food>
  <name>French Toast</name>
```

```
<price>$4.50</price>
 <description>
 Thick slices made from our homemade sourdough bread
 </description>
 <calories>600</calories>
</food>
<food>
 <name>Homestyle Breakfast</name>
 <price>$6.95</price>
 <description>
 Two eggs, bacon or sausage, toast, and our ever-popular hash browns
 </description>
 <calories>950</calories>
</food>
</breakfast_menu>
2. Write JavaScript program that uses AJAX to read JSON file and display its contents
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>AJAX to read Json file</title>
</head>
<body>
 <h1>AJAX to Read JSon files</h1>
 <button onclick="myfun()">Click Me</button>
  <div>
```

```
</div>
  <script>
    function myfun() {
      const xhttp = new XMLHttpRequest();
      xhttp.onload = function () {
        document.getElementById("demo").innerHTML = this.responseText;
      }
      xhttp.open("GET", "Student.json", true);
      xhttp.send();
    }
  </script>
</body>
</html>
------ Student.json------
{
  "Students":[
    {
      "rno":1,
      "name":"Keyur Pansuriya",
      "Class": "Sybca",
      "Div":1
    },
      "rno":2,
      "name": "Chintan Dobariya",
      "Class": "Sybca",
      "Div":2
    },
      "rno":3,
```

```
"name":"Mihir Donda",

"Class":"Sybca",

"Div":1

}
]
```

#### **JQUERY PROGRAMS LIST**

- Create a registration form as shown in following figure and use jQuery to
   i) enable / disable the Signup button on selection of checkbox of "I agree on terms and conditions
  - ii) display number of characters left for "password" field.
  - iii) on focus and on blur, change the color of all three input boxes.



```
<title>Login / Signup</title>
  <link rel="stylesheet"</pre>
href="https://cdn.jsdelivr.net/npm/bootstrap@4.4.1/dist/css/bootstrap.min.css"
    integrity="sha384-
Vkoo8x4CGsO3+Hhxv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9Ifjh"
crossorigin="anonymous">
<script src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.7.1/jquery.min.js"</pre>
integrity="sha512v2CJ7UaYy4JwqLDIrZUI/4hqeoQieOmAZNXBeQyjo21dadnwR+8ZaIJVT8EE2iyI610V8e
6M8PP2/4hpQINQ/g=="crossorigin="anonymous" referrerpolicy="no-referrer"></script>
  <style>
    .form-control:focus
       color: #495057;
       background-color: #fff;
       outline: 0;
       border: Opx solid none;
       border-color: black;
       box-shadow: none;
  }
  </style>
</head>
<body>
  <div class="container">
    <div class="text-center">
       <h1>My Store</h1>
    </div>
    <div class="my-4">
       <label>Name :</label>
       <input type="text" class="form-control name" />
    </div>
    <div class="my-4">
       <label>Email Address :</label>
       <input type="text" class="form-control email" />
    </div>
```

```
<div class="my-4">
    <label>Password :</label>
    <input type="password" class="form-control password" />
    </div>
  <div class="my-4">
    <input type="checkbox" class="check" />
    <span>
       i Agree on
       <a href="#">
         terms & Condition
       </a>
    </span>
  </div>
  <div class="my-4">
    <button class="btn btn-primary">
       Signup
    </button>
  </div>
</div>
<script>
  $(document).ready(() => {
    $(".btn").prop("disabled", true);
    $(".check").change(function () {
       if ($(this).is(":checked")) {
         $(".btn").prop("disabled", false);
       } else {
         $(".btn").prop("disabled", true);
       }
    });
    $('.name').focus(() => {
       $('.name').css("background", "orange").css('color', "white");
```

```
})
$('.email').focus(() => {
  $('.email').css("background", "#007bff").css('color', "white");
})
$('.password').focus(() => {
  $('.password').css("background", "green").css('color', "white");
})
$('.name').blur(() =>
  $('.name').css("background", "white").css('color', "orange")
)
$('.email').blur(() => {
  $('.email').css("background", "white").css('color', "blue")
})
$('.password').blur(() => {
  $('.password').css("background", "white").css('color', "green")
})
$(".password").on("input", function () {
  let password = $(".password").val().length;
  if (password < 8) {
     var maxLength = 8;
     var currentLength = password;
     var remaining = maxLength - currentLength;
     $("p").text("Min " + remaining + " characters left").css('color', 'red');
  }
  else
  {
     $("p").text("Ok Good Job").css('color', 'green');
  }
});
$('.btn').click(() => {
  let name = $('.name').val();
  let email = $('.email').val();
```

```
let password = $('.password').val();
    if (!name || !email || !password) {
        alert("Please Feels backs")
    }
    })
    </script>
</body>
</html>
```

2.Create a webpage that uses jQuery to display different animation effects with different HTML elements, on click of respective buttons.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Different Animation Effects</title>
  <link rel="stylesheet"</pre>
href="https://cdn.jsdelivr.net/npm/bootstrap@4.4.1/dist/css/bootstrap.min.css"
    integrity="sha384-
Vkoo8x4CGsO3+Hhxv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9Ifjh"
crossorigin="anonymous">
  <script src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.7.1/jquery.min.js"</pre>
    integrity="sha512-
v2CJ7UaYy4JwqLDIrZUI/4hqeoQieOmAZNXBeQyjo21dadnwR+8ZaIJVT8EE2iyI610V8e6M8PP2/4hpQIN
Q/q=="
    crossorigin="anonymous" referrerpolicy="no-referrer"></script>
  <style>
    .box
     {
       background-color: #1fc8db;
       background-image: linear-gradient(140deg, #007bff, #6c757d, #dc3545, #28a745);
      height: 13rem;
```

```
width: 30%;
    }
  </style>
</head>
<body>
  <div class="container mb-5">
    <div class="text-center my-5">
       <h1>Different Animation Effects</h1>
    </div>
    <div class="d-flex justify-content-center">
       <div>
         <button class="btn btn-primary">Fade In</button>
         <button class="btn btn-secondary">Fade Out</button>
       </div>
       <div class="mx-1">
         <button class="btn btn-danger">Slide Up</button>
         <button class="btn btn-success">Slide Down</button>
       </div>
    </div>
    <div class="d-flex justify-content-center my-5">
       <div class="box">
       </div>
    </div>
  </div>
  <script>
    $(document).ready(()=>{
       $('.btn-primary').click(()=>{
         $('.box').fadeIn(2000)
       });
       $('.btn-secondary').click(()=>{
         $('.box').fadeOut(2000)
       });
```

```
$('.btn-danger').click(()=>{
    $('.box').slideUp(2000)
});
$('.btn-success').click(()=>{
    $('.box').slideDown(2000)
});
});
</script>
</body>
</html>
```

#### NODE JS PROGRAMS LIST

1. Write nodeJS program to split query string from url.

```
var http = require('http'); var url = require('url');
console.log("Server running at port 8081");
http.createServer(function (req, res)
{ res.writeHead(200, {'Content-Type': 'text/html'});
  var q = url.parse(req.url, true).query;
var txt = q.rollno + " " + q.name; res.end(txt); }).listen(8081);
```

# 2. Write nodeJS program to reads query string from url using req.url and sends appropriate

response.

```
var http = require('http');
var server = http.createServer(function (req, res) {
  if (req.url == '/')
  {
    res.writeHead(200, { 'Content-Type': 'text/html' });
    res.write('<html><body><h1>This is home Page.</h1></body></html>');
```

```
res.end();
}
else if (req.url == "/student")
{
res.writeHead(200, {'Content-Type': 'text/html'});
res.write('<html><body><h1>This is student Page.</h1></body></html>');
res.end();
}
else if (req.url == "/admin")
{
res.writeHead(200, { 'Content-Type': 'text/html' });
res.write('<html><body>This is admin Page.</body></html>');
res.end();
}
else
{
res.end('<h1> Invalid request </h1>');
}}).listen(8081);
console.log("NodeJS Server is running, listening at port: 8081");
3.write nodeJS program to read URL, parse it to JS object and display it's properties.
//write nodeJS program to read URL, parse it to JS object and display it's properties.
//localhost:8081/hello.html?rollno=123&name=Vishal
var http = require('http');
var url = require('url');
http.createServer(function(req,res){
```

q = url.parse(req.url,true).query;

res.write("<h1> req.url = " + req.url + "</h1>");

res.write("<h1> your rollno is " + q.rollno + "</h1>");

res.write("<h1> your name is " + q.name + "</h1>");

```
h = url.parse(req.url,true).host;
res.write("<h1> host= " + h + "</h1>");

p = url.parse(req.url,true).pathname;
res.write("<h1> pathname= " + p + "</h1>");
s = url.parse(req.url,true).search;
res.write("<h1> search= " + s + "</h1>");
res.end();
}).listen(8081);
console.log("Node JS server running at 8081...");
```

4. Create user defined module in nodeJS that exports an object.

```
//this module exports an object - udm3.js
exports.student = {rno:"101",name:"Utsav"};
```

5. Create user defined module in nodeJS that exports a function.

- 6. Write nodeJS program that
- i. creates one file
- ii. writes one line to the file

#### iii. appends one line to the file

#### iv. read the file

v. delete the file

```
-----create a file and write some text ------
var fs = require('fs');
fs.open('file2.txt', 'w', function (err, file) {
if (err)
{
console.log("Error");
throw err;
}
fs.write("hello");
console.log('Saved!');
});
----- read data from file -----
var http = require('http');
var fs = require('fs');
console.log("Server running at 8081...");
http.createServer(function (req, res) {
console.log("Request received");
fs.readFile('file1.html',function(err, data) {
if(err)
throw(err);
else
res.writeHead(200, {'Content-Type': 'text/html'});
res.write(data);
return res.end();
```

```
};});
}).listen(8081);
-----append one line to the file -----
fs.appendFile('new.txt', ' Written using append file ', function (err) {
if (err)
{
console.log("Error");
throw err;
}
console.log('Saved!');
});
-----delete the file -----
fs.unlink('file2.txt', function (err) {
if (err)
{
console.log("Error");
throw err;
}
console.log('File deleted!');
});
```