EXPERIMENT 6

PART B

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Class: B. Tech. Comp. Engg.	Batch: E3
Date of Experiment:	Date of Submission:
Grade :	

B.1 Software Code written by student:

P11.asp

```
<html>


<head>
<link rel="stylesheet" type="text/css" href="button.css">
<link rel="stylesheet" type="text/css" href="new.css">

<script src="http://ajax.googleapis.com/ajax/libs/jquery/1.10.0/jquery.min.js"></script>
<script type="text/javascript" src="script.js"></script>

<title>Gadget Showcase</title>

<script>
                function getDetails(name)
                {
                        var xmlhttp;
                        if (window.XMLHttpRequest)
                        {// code for IE7+, Firefox, Chrome, Opera, Safari
```

```
                xmlhttp=new XMLHttpRequest();
            }
            else
            {// code for IE6, IE5
                xmlhttp=new ActiveXObject("Microsoft.XMLHTTP");
            }
            xmlhttp.onreadystatechange=function()
            {
                if (xmlhttp.readyState==4 && xmlhttp.status==200)
                {
document.getElementById("myId").innerHTML=xmlhttp.responseText;
                }
            }
            xmlhttp.open("GET",name + ".txt",true);
            xmlhttp.send();
        }
        function mouseOverTD(id) {
            document.getElementById(id).style.backgroundColor =
"lightblue";
            document.getElementById(id).style.color = "blue";
        }
        function mouseNotOverTD(id) {
            document.getElementById(id).style.backgroundColor =
"lightblue";
            document.getElementById(id).style.color = "blue";
```

```
                    }
                </script>

<div class="main">
<div onmouseover="document.getElementById('div1').style.display = 'block';" onmouseout="document.getElementById('div1').style.display = 'none';" >
<h1><center><font color="white" face="Trebuchet MS">Gadget Showcase</font></center></h2>
<div id="div1" style="display: none;"><h3 align="center"><font color = "white">Know Technology Better<font></h3></div>
</div>

</head>
<body background="g2.jpg">

<div class="resp">

<div id="slider">
<div class="btn">
<center><a href="p8.html"><font color = "white">Register</font></a></center>
</div>
<div class="btn">
<center><a href="p2.html"><font color = "white">Enter The Site</font></a></center>
</div>
```

```
</div>


</div>


                <div style="background-color:lightblue; width:100%;height:40">

                        <table align="center" frame="vsides" width="100%">

                                <tr>

                                        <td width="33%" align="center"
onmouseover="mouseOverTD('d1')" onmouseout="mouseNotOverTD('d1')"
onclick="getDetails('nexus')"><div id="d1"style="font-family:Verdana;font-
size:20">Nexus</div></td>

                                        <td width="33%" align="center"
onmouseover="mouseOverTD('d2')" onmouseout="mouseNotOverTD('d2')"
onclick="getDetails('rift')"><div id="d2" style="font-family:Verdana;font-
size:20">Rift</div></td>

                                        <td width="33%" align="center"
onmouseover="mouseOverTD('d3')" onmouseout="mouseNotOverTD('d3')"
onclick="getDetails('watch')"><div id="d3" style="font-family:Verdana;font-
size:20">Watch</div></td>

                                </tr>

                        </table>

                </div>

                </div>

                <br>

                <div style="background-color:lightblue;width:100%">

                        <div align="center" style="font-family:Verdana" id="myId">

                        </div>

                </div>
```

</body>

</html>

Watch.txt

Make the most of time.DirectCU II with SSU architecture

Learn more when you lift your wrist.

One watch, many faces.

The most accurate watches ever. And designed to stay that way.

Classic functions in a contemporary setting.

Timekeeping that goes beyond hours, minutes, and seconds.

Rift.txt

Next-Gen Virtual Reality.

Low Latency 360° Head Tracking.

Stereoscopic 3D View.

Wearable & Affordable.

Ultra Wide Field of View.

Nexus.txt

Made for what matters.

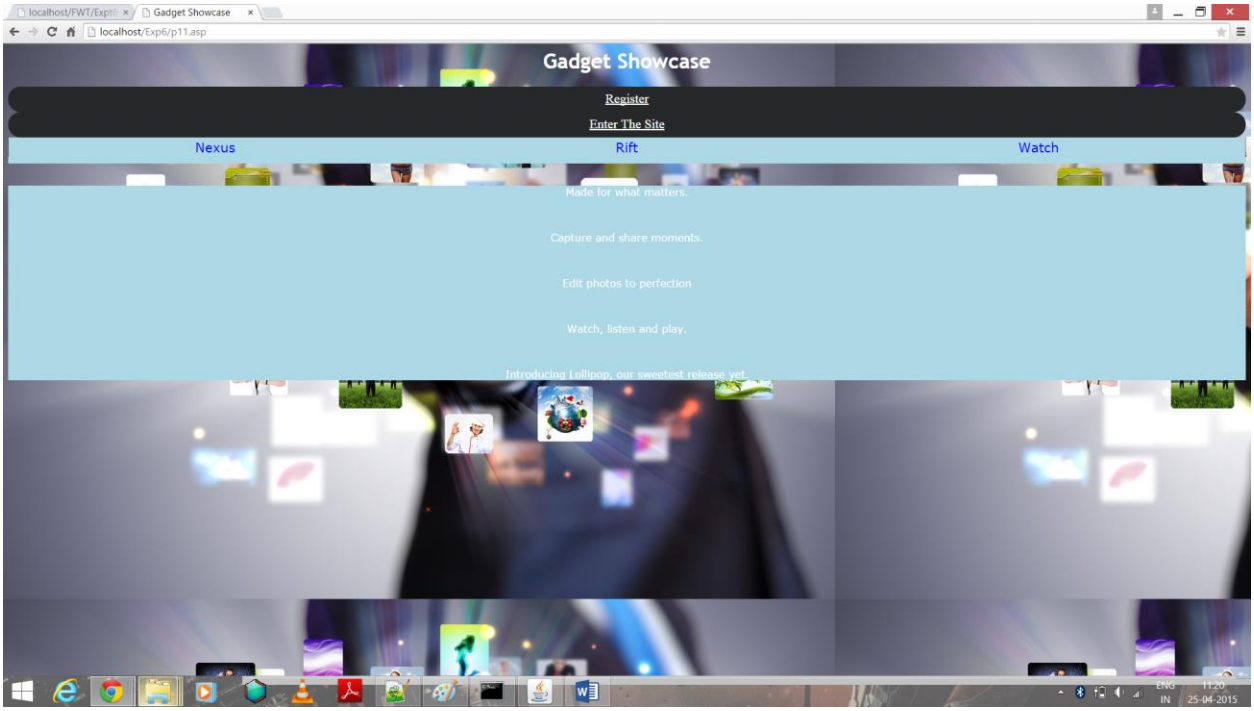
Capture and share moments.

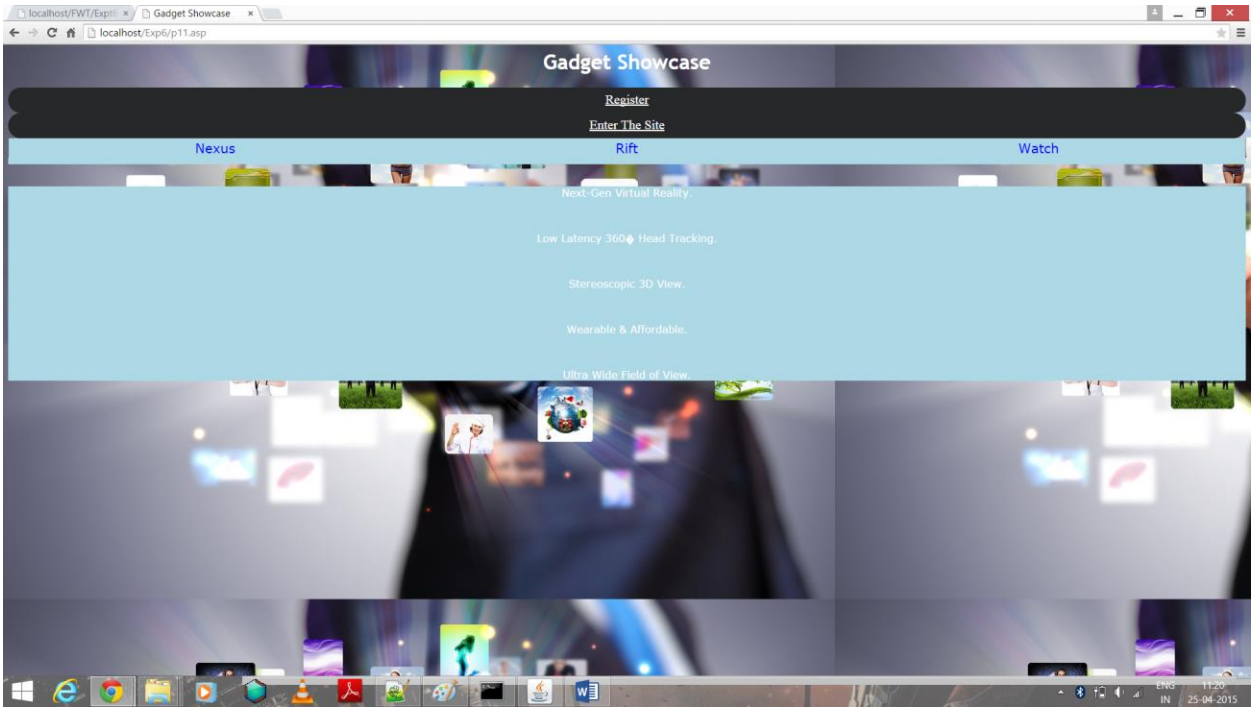
Edit photos to perfection

Watch, listen and play.

Introducing Lollipop, our sweetest release yet.

B.2 Input and Output:

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Rift
Watch
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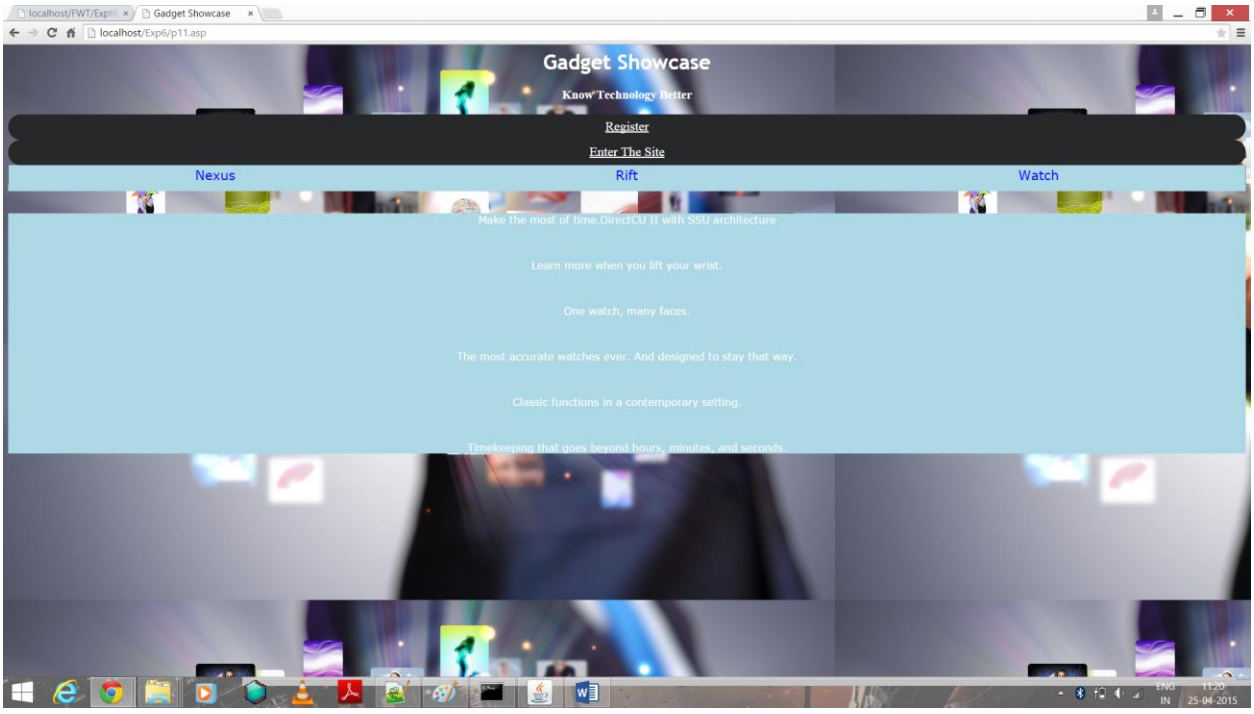
Stereoscopic 3D View.
Wearable & Affordable.
Ultra Wide Field of View.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B.3 Observations and learning:

With Ajax, Web applications can send data to, and retrieve data from, a server asynchronously (in the background) without interfering with the display and behavior of the existing page. Data can be retrieved using the XMLHttpRequest object. The XMLHttpRequest Object was used for loading the text file containing data in HTML tags. The function in javascript is used to load the object and the files which contain the data.

B.4 Conclusion:

Thus we have understood and implemented AJAX in order to load data asynchronously in the webpage.

B.5 Question of Curiosity

1) Explain how AJAX is advantageous in a client server communication?

Soln:

The advantages of AJAX over classical web-based applications in client server communication include:

- Asynchronous calls — AJAX allows for the ability to make asynchronous calls to a web server. This allows the client browser to avoid waiting for all data to arrive before allowing the user to act once more.
- Minimal data transfer — By not performing a full postback and sending all form data to the server, network utilization is minimized and quicker operations occur. In sites and locations with restricted pipes for data transfer, this can greatly improve network performance.
- Limited processing on the server — Along with the fact that only the necessary data is sent to the server, the server is not required to process all form elements. By sending only the necessary data, there is limited processing on the server. There is no need to process all form elements, process the ViewState, send images back to the client, or send a full page back to the client.
- Responsiveness—Because AJAX applications are asynchronous on the client, they are perceived to be very responsive.

2) Explain in detail what you have implemented in you website using AJAX?

Soln: A text file with HTML tags was called by use of function which lead to loading it asynchronously, here only a part of the webpage was loaded instead of refreshing the web page with the new content. The XMLHttpRequest Object is used for asynchronous changing of content.