CS 5560 Knowledge Discovery and Management

Lab Assignment 3

Under Guidance Of

Professor DR.LEE

Submitted

By

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1.Implement Some features for your group project
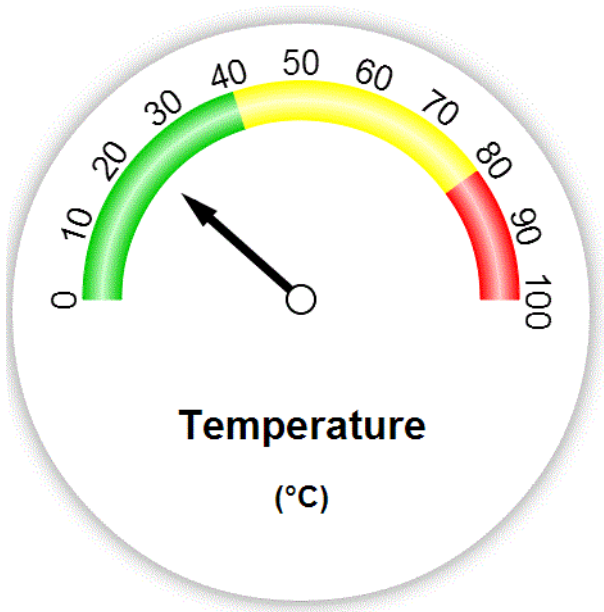
 a. Create HTML5 & CSS

The Chart varies it temperature by zip code.The chart is interactive with change in temperature values. The Local webservice identifies the current temperature by zip code and updates in this chart by the values.
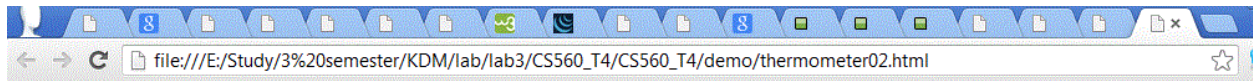
i.Representation through pie chart.

A circular Meter chart

Meter chart.
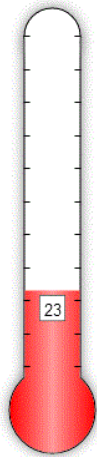

Temperature

(°C)

« Back

ii.Bar Graph Representation:

A thermometer chart with onmousemove driven tooltips

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Source Code:

```
<!DOCTYPE html >
<html>
<head>
    <link rel="stylesheet" href="demos.css" type="text/css"
media="screen" />

    <script src="./libraries/RGraph.common.core.js" ></script>
    <script src="./libraries/RGraph.common.dynamic.js" ></script>
    <script src="./libraries/RGraph.common.effects.js" ></script>
    <script src="./libraries/RGraph.meter.js" ></script>
    <!--[if lt IE 9]><script
src="../excanvas/excanvas.js"></script><![endif]-->
</head>
<body>

    <h1>A circular Meter chart</h1>
```

```html
    <p>
         Meter chart.     </p>

    <div style="width: 450px; height: 450px; background-color: white;
border-radius: 250px; text-align: center; font-family: Arial; box-
shadow: 0px 0px 25px gray; border: 10   px solid #ddd">
        <canvas id="cvs" width="450" height="250">[No canvas
support]</canvas>
        <br /><br />
        <h1>Temperature</h1>
        <h2>(°C)</h2>
        <script>
            meter = new RGraph.Meter('cvs', 0,100,56);
            meter.Set('chart.border', false);
            meter.Set('chart.tickmarks.small.num', 0);
            meter.Set('chart.tickmarks.big.num', 0);
            meter.Set('chart.segment.radius.start', 140);
            meter.Set('chart.text.size', 20);
            meter.Set('chart.colors.ranges', [

[0,40,'Gradient(#0c0:#cfc:#0c0)'],

[40,80,'Gradient(yellow:#ffc:yellow)'],

[80,100,'Gradient(red:#fcc:red)']
                                            ]);
            meter.Set('chart.needle.radius', 110);
            meter.Set('chart.gutter.bottom', 35);
            meter.Draw();

            meter.canvas.onclick_rgraph = function (e)
            {
                var obj = e.target.__object__;
                var value = obj.getValue(e);

                if (typeof(value) == 'number') {
                    obj.value = value;
                    RGraph.Effects.Meter.Grow(obj);
                }
            }
        </script>
    </div>

    <p>
        <a href="./">&laquo; Back</a>
    </p>

</body>
</html>
```
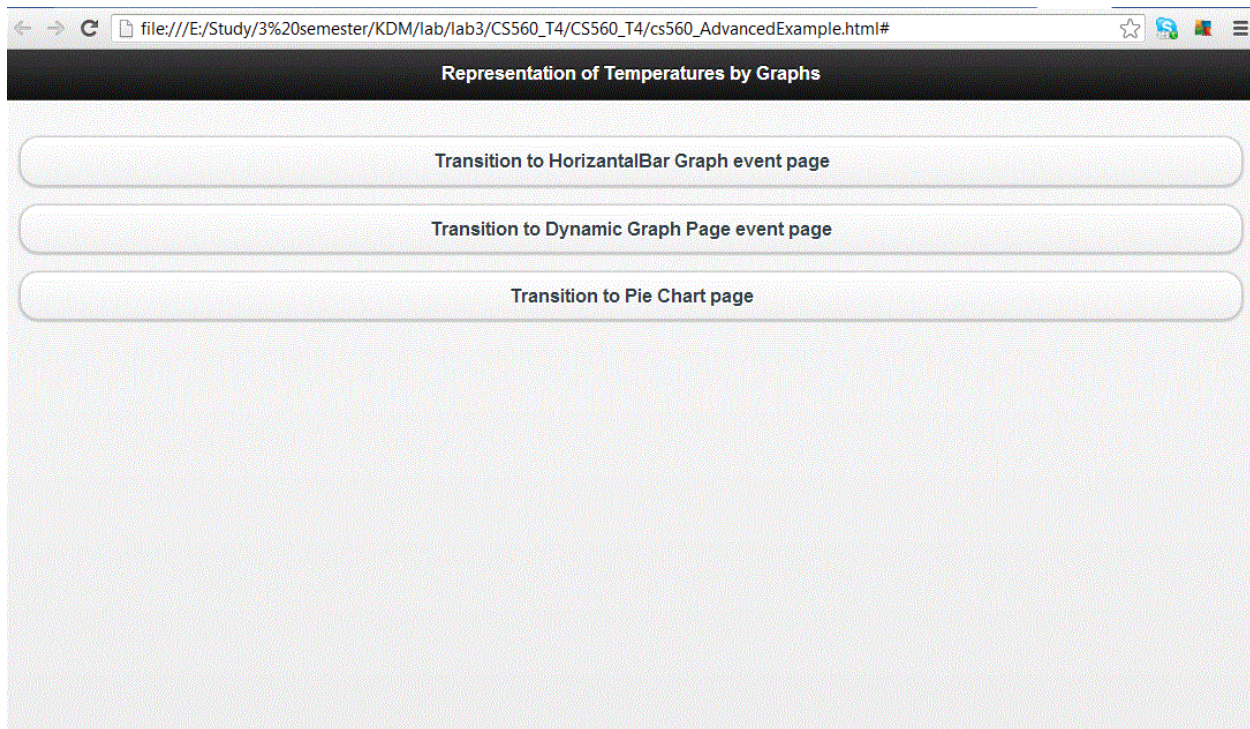
b. Implement some features using Javascript & JQuery mobile

Varies representation of temperatures by graph is displayed in these button options.

Source code:

```
<!DOCTYPE html>
<html>

<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1">
    <title>Dynamic Graphs</title>
    <link rel="stylesheet" href="http://code.jquery.com/mobile/1.3.0-
beta.1/jquery.mobile-1.3.0-beta.1.min.css" />
    <script src="http://code.jquery.com/jquery-
1.8.3.min.js"></script>
    <script src="http://code.jquery.com/mobile/1.3.0-
beta.1/jquery.mobile-1.3.0-beta.1.min.js"></script>
```

```html
</head>

<body>

<div data-role="page" id="page1">

    <div data-role="header">
        <h1>Representation of Temperatures by Graphs </h1>
    </div>

    <div data-role="content">
        <p><a href="#ButtonEventPage" data-role="button">Transition
to HorizantalBar Graph event page</a></p>
      <p><a href="#MouseEventPage" data-role="button">Transition to
Dynamic Graph Page event page</a></p>
      <p><a href="#PopUpPage" data-role="button">Transition to Pie
Chart page</a></p>
        <p><a href="#LoadWidgetPage" data-role="button">Transition
to load widget page</a></p>

    </div>



</div>

<div data-role="page" id="ButtonEventPage">

    <div data-role="header">
      <a data-rel="back" data-icon="home">Home</a>
        <h1>Button Event Page</h1>
    </div>

    <div data-role="content">
        <p>Button Event Sample</p>
      <button id="WelcomeButton">Welcome</button>
        <button id="EventButton">Get random number</button>
        <div id="status"></div>
    </div>



</div>


<div data-role="page" id="MouseEventPage">
```

```html
     <div align="center" data-role="header">

        <a data-rel="back" data-icon="home">Home</a>
          <h1>Mouse Event Page</h1>
     </div> <br><br>

    <font color="red">Mouse Leave Event: </font>

    <div align="center" class="out enterleave">
     <p>move your mouse</p>
     <div align="center" class="in enterleave">
     <p>move your mouse</p>
     </div>
    </div><br><br>



<div>
<font color="red">Mouse Hover Event: </font>

<ul data-role="listview" data-inset="true">
    <li>Class1</li>
    <li>Class2</li>
    <li>Class3</li>
    <li>Class4</li>
</ul>
</div>




</div>






<div data-role="page" id="PopUpPage">

     <div data-role="header">
       <a data-rel="back" data-icon="home">Home</a>
          <h1>Popup Page</h1>
     </div>



     <a  href="#popupBasic" data-rel="popup"  data-role="button">Basic
Popup</a>

      <div data-role="popup" id="popupBasic">
```

```html
      <p>This is a Basic Popup<p>
       </div>

 <a  href="#popupMenu" data-rel="popup"  data-role="button">Menu
Popup</a>

       <div data-role="popup" id="popupMenu" data-theme="a">
         <ul data-role="listview" data-inset="true" style="min-
width:210px;" data-theme="b">
           <li data-role="divider" data-theme="a">languages</li>
           <li><a href="">English</a></li>
           <li><a href="">French</a></li>
           <li><a href="">German</a></li>
       </ul>
        </div>




<a href="#popupPhoto" data-rel="popup" data-role="button" >Photo
Popup</a>

<div data-role="popup" id="popupPhoto" data-overlay-theme="a" data-
theme="d" data-corners="false">
<a href="#" data-rel="back" data-role="button" data-theme="a" data-
icon="delete" data-iconpos="notext" class="ui-btn-right">Close</a><img
class="popphoto"
src="http://upload.wikimedia.org/wikipedia/commons/thumb/2/2d/9104_-
_Milano_-_Museo_storia_naturale_-_Fluorite_-
_Foto_Giovanni_Dall%27Orto_22-Apr-2007.jpg/1000px-9104_-_Milano_-
_Museo_storia_naturale_-_Fluorite_-_Foto_Giovanni_Dall%27Orto_22-Apr-
2007.jpg" alt="Crystal">
</div>


<a href="#popupVideo" data-rel="popup" data-role="button" data-
theme="b" >Launch video player</a>
<div data-role="popup" id="popupVideo" data-overlay-theme="a" data-
theme="d" data-tolerance="15,15" class="ui-content">
<iframe src="http://player.vimeo.com/video/41135183?portrait=0"
width="497" height="298" seamless></iframe>
</div>
</div>





<div data-role="page" id="LoadWidgetPage">

     <div data-role="header">
       <a data-rel="back" data-icon="home">Home</a>
         <h1>Load Widget Page</h1>
```

```
        </div>



<script>
      $(document).on("click", ".show-page-loading-msg", function() {
            var $this = $( this ),
                  theme = $this.jqmData("theme") ||
$.mobile.loader.prototype.options.theme,
                  msgText = $this.jqmData("msgtext") ||
$.mobile.loader.prototype.options.text,
                  textVisible = $this.jqmData("textvisible") ||
$.mobile.loader.prototype.options.textVisible,
                  textonly = !!$this.jqmData("textonly");
                  html = $this.jqmData("html") || "";
                  $.mobile.loading( 'show', {
                        text: msgText,
                        textVisible: textVisible,
                        theme: theme,
                        textonly: textonly,
                        html: html
                  });
            })
            .on("click", ".hide-page-loading-msg", function() {
                  $.mobile.loading( 'hide' );
            });
      </script>
    <div data-role="controlgroup">
            <button class="show-page-loading-msg" data-theme="a" data-
textonly="false" data-textvisible="false" data-msgtext="" data-
icon="arrow-r" data-iconpos="right">Default loader</button>
            <button class="show-page-loading-msg" data-theme="a" data-
textonly="true" data-textvisible="true" data-msgtext="Text loader"
data-icon="arrow-r" data-iconpos="right">Text loader</button>
            <button class="show-page-loading-msg" data-theme="a" data-
textonly="false" data-textvisible="true" data-msgtext="Loading theme
a" data-icon="arrow-r" data-iconpos="right">Theme a loader</button>
            <button class="show-page-loading-msg" data-theme="b" data-
textonly="false" data-textvisible="true" data-msgtext="Loading theme
b" data-icon="arrow-r" data-iconpos="right">Theme b loader</button>
            <button class="show-page-loading-msg" data-theme="c" data-
textonly="false" data-textvisible="true" data-msgtext="Loading theme
c" data-icon="arrow-r" data-iconpos="right">Theme c loader</button>
            <button class="show-page-loading-msg" data-theme="d" data-
textonly="false" data-textvisible="true" data-msgtext="Loading theme
d" data-icon="arrow-r" data-iconpos="right">Theme d loader</button>
            <button class="show-page-loading-msg" data-theme="e" data-
textonly="false" data-textvisible="true" data-msgtext="Loading theme
e" data-icon="arrow-r" data-iconpos="right">Theme e loader</button>
            <button class="show-page-loading-msg" data-theme="a" data-
textonly="true" data-textvisible="true" data-msgtext="Custom Loader"
```

```
data-icon="arrow-r" data-html="<span class='ui-bar ui-overlay-c ui-
corner-all'><img
src='http://maps.google.com/mapfiles/kml/shapes/airports.png' /><h2>is
loading for you ...</h2></span>" data-iconpos="right">Custom
HTML</button>
            <button class="hide-page-loading-msg" data-icon="delete"
data-iconpos="right">Hide</button>
      </div>



</div>




<script>
$("#ButtonEventPage").on("pageshow",function(e) {


      $("#EventButton").on("click", function(e) {

            $("#status").html("<p>Loading...</p>");
            console.log("You Get the random number: "+Math.random())
            setTimeout(function() {
                  $("#status").html("<p>You Got a random number:
"+Math.random() + "</p>");
            },400);
      });


         $("#WelcomeButton").on("click", function(e) {


            $("#status").html("<p>Welcome to CS551 Class</p>");

      });


});
</script>


<script>


    var n = 0;
    $("div.enterleave").mouseenter(function(){
```

```
        $("p:first",this).text("mouse enter");
      }).mouseleave(function(){
        $("p:first",this).text("mouse leave");

      });

</script>


<script>
$("li").hover(
  function () {
    $(this).append($("<span> Your Choice</span>"));
  },
  function () {
    $(this).find("span:last").remove();
  }
);

//li with fade class
$("li.fade").hover(function(){$(this).fadeOut(100);$(this).fadeIn(500)
;});

</script>



</body>
</html>
```

c. Show use of existing web services or your own web services

```
▼<ForecastReturn xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://ws.cdyne.com/WeatherWS/">
   <Success>true</Success>
   <ResponseText>City Found</ResponseText>
   <State>MO</State>
   <City>Kansas City</City>
   <WeatherStationCity>Kansas City</WeatherStationCity>
  ▼<ForecastResult>
   ▼<Forecast>
      <Date>2013-02-19T00:00:00</Date>
      <WeatherID>4</WeatherID>
      <Desciption>Sunny</Desciption>
     ▼<Temperatures>
       <MorningLow>22</MorningLow>
       <DaytimeHigh>35</DaytimeHigh>
      </Temperatures>
     ▼<ProbabilityOfPrecipiation>
       <Nighttime>00</Nighttime>
       <Daytime>00</Daytime>
      </ProbabilityOfPrecipiation>
     </Forecast>
   ▼<Forecast>
      <Date>2013-02-20T00:00:00</Date>
      <WeatherID>2</WeatherID>
      <Desciption>Partly Cloudy</Desciption>
     ▼<Temperatures>
       <MorningLow>16</MorningLow>
       <DaytimeHigh>34</DaytimeHigh>
      </Temperatures>
     ▼<ProbabilityOfPrecipiation>
       <Nighttime>00</Nighttime>
       <Daytime>00</Daytime>
      </ProbabilityOfPrecipiation>
     </Forecast>
   ▼<Forecast>
      <Date>2013-02-21T00:00:00</Date>
      <WeatherID>27</WeatherID>
      <Desciption>Snow</Desciption>
     ▼<Temperatures>
```

```xml
<ForecastReturn xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://ws.cdyne
.com/WeatherWS/">
<Success>true</Success>
<ResponseText>City Found</ResponseText>
<State>MO</State>
<City>Kansas City</City>
<WeatherStationCity>Kansas City</WeatherStationCity>
<ForecastResult>
<Forecast>
<Date>2013-02-19T00:00:00</Date>
<WeatherID>4</WeatherID>
<Desciption>Sunny</Desciption>
<Temperatures>
<MorningLow>22</MorningLow>
<DaytimeHigh>35</DaytimeHigh>
</Temperatures>
<ProbabilityOfPrecipiation>
<Nighttime>00</Nighttime>
<Daytime>00</Daytime>
</ProbabilityOfPrecipiation>
</Forecast>
<Forecast>
<Date>2013-02-20T00:00:00</Date>
<WeatherID>2</WeatherID>
<Desciption>Partly Cloudy</Desciption>
<Temperatures>
<MorningLow>16</MorningLow>
<DaytimeHigh>34</DaytimeHigh>
</Temperatures>
<ProbabilityOfPrecipiation>
```

```xml
<Nighttime>00</Nighttime>
<Daytime>00</Daytime>
</ProbabilityOfPrecipiation>
</Forecast>
<Forecast>
<Date>2013-02-21T00:00:00</Date>
<WeatherID>27</WeatherID>
<Desciption>Snow</Desciption>
<Temperatures>
<MorningLow>25</MorningLow>
<DaytimeHigh>32</DaytimeHigh>
</Temperatures>
<ProbabilityOfPrecipiation>
<Nighttime>90</Nighttime>
<Daytime>90</Daytime>
</ProbabilityOfPrecipiation>
</Forecast>
<Forecast>
<Date>2013-02-22T00:00:00</Date>
<WeatherID>2</WeatherID>
<Desciption>Partly Cloudy</Desciption>
<Temperatures>
<MorningLow>22</MorningLow>
<DaytimeHigh>31</DaytimeHigh>
</Temperatures>
<ProbabilityOfPrecipiation>
<Nighttime>30</Nighttime>
<Daytime>10</Daytime>
</ProbabilityOfPrecipiation>
</Forecast>
<Forecast>
<Date>2013-02-23T00:00:00</Date>
<WeatherID>2</WeatherID>
<Desciption>Partly Cloudy</Desciption>
<Temperatures>
<MorningLow>16</MorningLow>
<DaytimeHigh>36</DaytimeHigh>
</Temperatures>
<ProbabilityOfPrecipiation>
<Nighttime>10</Nighttime>
<Daytime>10</Daytime>
</ProbabilityOfPrecipiation>
</Forecast>
<Forecast>
<Date>2013-02-24T00:00:00</Date>
<WeatherID>2</WeatherID>
<Desciption>Partly Cloudy</Desciption>
<Temperatures>
<MorningLow>26</MorningLow>
<DaytimeHigh>48</DaytimeHigh>
</Temperatures>
<ProbabilityOfPrecipiation>
<Nighttime>10</Nighttime>
<Daytime>10</Daytime>
</ProbabilityOfPrecipiation>
</Forecast>
<Forecast>
```

```xml
<Date>2013-02-25T00:00:00</Date>
<WeatherID>5</WeatherID>
<Desciption>Rain</Desciption>
<Temperatures>
<MorningLow>33</MorningLow>
<DaytimeHigh>44</DaytimeHigh>
</Temperatures>
<ProbabilityOfPrecipiation>
<Nighttime>20</Nighttime>
<Daytime>50</Daytime>
</ProbabilityOfPrecipiation>
</Forecast>
</ForecastResult>
</ForecastReturn>
```