AdRotator Control

The AdRotator control is used to display a sequence of advertisement images. It uses an external XML file to store the ad information. The XML file consists of several tags for designing the content in an application. The XML file consists of <Advertisements> tag at the start and end of the tags added. There are several <Ad> tags defined inside the <Advertisements> tag.

The list of elements that can be added in the <Ad> tag are as mentioned below:

Element	Description
<ImageUrl>	It defines the path of the image file
<NavigateUrl>	It is the URL to be linked when the user clicks the ad
<AlternateText>	It is an alternate text for the image
<Keyword>	It is a category for the ad
<Impressions>	It is the display rate for the number of hits on an ad
<Height>	It is used to define the height of the image
<Width>	It is used to define the width of the image

Some of the properties of the AdRotator control are mentioned below:

Property	Description
AdvertisementFile	It gets or sets the path to an XML file containing the advertisement information
Attributes	It gets the collection of arbitrary attributes that do not correspond to the control
BackColor	It gets or sets the background color of the Web Server control

BorderColor	It gets or sets the border color of the Web Server control
ClientID	It gets the controlID for the HTML Markup generated by ASP.NET
Context	It gets the HttpContext object associated with the server control
CssClass	It gets or sets the CSS class rendered by the Web Server control
DataSource	It gets or sets the object from which the data bound control retrieves the list of data items
Enabled	It gets or sets the value indicating the Web Server control is enabled
HasAttributes	It gets a value indicating the control has attributes set
ImageUrlField	It gets or sets the custom data field to use instead of the ImageUrl attribute
ItemType	It gets or sets the name of the data type for data binding
NavigateUrlField	It gets or sets the custom data field to use instead of the NavigateUrl attribute
Page	It gets a reference to the Page instance containing the server control
RenderingCompatibility	It gets a value specifying the version of ASP.NET for rendering
SelectMethod	It is the name of the method to call in order to read data

TabIndex	It gets or sets the tab index of the Web Server control
Target	It gets or sets the name of the browser window or frame
ToolTip	It gets or sets the text to be displayed when the mouse pointer hovers over the control
Visible	It gets or sets the value indicating the server control is rendered as UI on the page

The list of some AdRotator events is mentioned below:

Events	Description
AdCreated	It occurs once during the round trip to the server after the creation of the control
CallingDataMethods	It occurs when data methods are being called by the user
CreatingModelDataSource	It occurs when the ModelDataSource object is being created
DataBinding	It occurs when the server control binds to a data source
DataBound	It occurs after the server control binds to a data source
Disposed	It occurs when the server control is released from memory
Init	It occurs when the server control is initialized

Load	It occurs when the server control is loaded into Page object
PreRender	It occurs when the control object is loaded prior to rendering
Unload	It occurs when the server control is unloaded from the memory

An example to demonstrate the AdRotator control is as shown below:

The XML file for the AdRotator control is as mentioned below:

```
<Advertisments>
  <Ad>
    <ImageUrl>Tulips.jpg</ImageUrl>
    <NavigateUrl>http://www.gmail.com</NavigateUrl>
    <AlternateText>Gmail</AlternateText>
    <Keyword>Site</Keyword>
  </Ad>

  <Ad>
    <ImageUrl>LightHouse.jpg</ImageUrl>
    <NavigateUrl>http://www.google.com</NavigateUrl>
    <AlternateText>Google</AlternateText>
    <Keyword>Site</Keyword>
  </Ad>
</Advertisments>
```

The source code file for AdRotator file is as shown below:

```
<form id="form1" runat="server">
 <div>
   <asp:AdRotator ID="AdRotator1" runat="server"
AdvertismentFile="~/XMLFile.xml" />
 </div>
</form>
```

The output is as shown below: