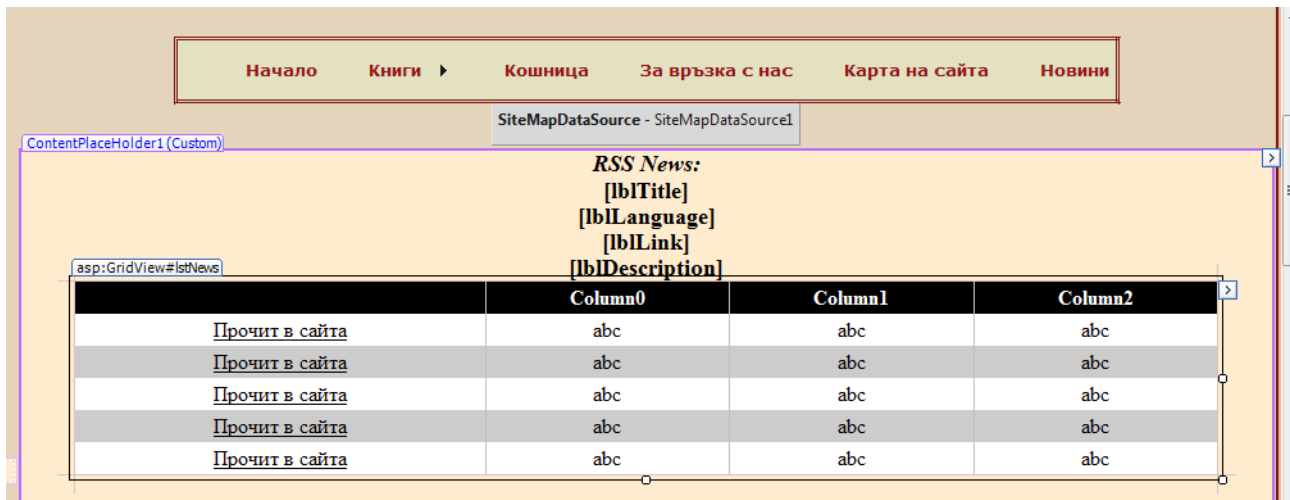


## Exercise 7

## Page "Новини/News"

1. Create a page "News" and add it to the menu. Insert the following controls (Label, GridView) in the page:



2. On page load, organize filling in the created GridView by reading RSS feeds, for example, from site - [http://www.btv.bg/rss\\_news](http://www.btv.bg/rss_news). A xml file with RSS News has the following structure:

```
<?xml version="1.0"?>
<rss version="2.0">
  <channel>
    <title>Example Channel</title>           //Name of the RSS channel
    <link>http://example.com/</link>         // URL to the channel
    <description>My example channel</description> // Description of the channel

    <item>
      <title>News for September the Second</title>           // News title
      <link>http://example.com/2002/09/01</link>             //URL to the news
      <description>other things happened today</description> // Description of the news
    </item>
    <item>
      <title>News for September the First</title>
      <link>http://example.com/2002/09/02</link>             //Next news
    </item>
  </channel>
</rss>
```

- You have to add the following libraries:

```
using System.Xml;
using System.Data;
```

- Create the following objects:

```
XmlTextReader XmlTextRssReader;
XmlDocument XmlDocumentRss;
XmlNode XmlNodeRss;
XmlNode nodeChannel;
XmlNode nodeItem;
DataTable table = new DataTable();
```

```

protected void Page_Load(object sender, EventArgs e)
{
    DataColumn col = table.Columns.Add("Заглавие на новина");
    DataColumn col1 = table.Columns.Add("Линк");
    XmlTextRssReader = new XmlTextReader("http://www.btv.bg/rss__news");
    XmlDocumentRss = new XmlDocument();

    // Loading XML content from the XmlDocument

    XmlDocumentRss.Load(XmlTextRssReader);

    // Loop for checking for <rss> tag
    for (int i = 0; i < XmlDocumentRss.ChildNodes.Count; i++)
    {
        if (XmlDocumentRss.ChildNodes[i].Name == "rss")
        {
            // found <rss> tag
            XmlNodeRss = XmlDocumentRss.ChildNodes[i];
        }
    }
    // Checking if there are found tags in the RSS, perform the following commands
    if (XmlNodeRss.ChildNodes.Count != 0)
    {
        // Loop for checking for <channel> tag
        for (int i = 0; i < XmlNodeRss.ChildNodes.Count; i++)
        {
            if (XmlNodeRss.ChildNodes[i].Name == "channel")
            {
                // found <channel> tag
                nodeChannel = XmlNodeRss.ChildNodes[i];
            }
        }
        // Filling the data for the channel in the labels
        lblTitle.Text = "Title: " + nodeChannel["title"].InnerText;
        lblLanguage.Text = "Language: " + nodeChannel["language"].InnerText;
        lblLink.Text = "Link: " + nodeChannel["link"].InnerText;
        lblDescription.Text = "Description: " + nodeChannel["description"].InnerText;

        // Loop for filling the headlines and links to news in the GridView
        for (int i = 0; i < nodeChannel.ChildNodes.Count; i++)
        {
            if (nodeChannel.ChildNodes[i].Name == "item") // Checking only for the news
            {
                nodeItem = nodeChannel.ChildNodes[i];

                // Creating a row in GridView-containing information about the news (title and link) taken by
                tags
                DataRow row = table.NewRow();
                row[0] = nodeItem["title"].InnerText;
                row[1] = nodeItem["link"].InnerText;
                table.Rows.Add(row);
                table.AcceptChanges();
                GrViewNews.DataSource = table;
                GrViewNews.DataBind();
            }
        }
    }
}

```

Example result:

Начало    Книги ▾    Кошница    За връзка с нас    Карта на сайта <b>Новини</b>		
<p><b>RSS News:</b>  <b>Title:</b> bTV - Новините  <b>Language:</b> bg  <b>Link:</b> <a href="http://www.btv.bg/news/">http://www.btv.bg/news/</a>  <b>Description:</b> bTV Новините - новини от България и света, бизнес и спортни новини, видео репортажи, анализи, лайфстайл, галерии</p>		
	Заглавие на новина	Линк
<a href="#">Прочит в сайта</a>	Борисов нареди анализ на великденското поскъпване	<a href="http://btvnews.bg/news/bulgaria/announce/1468886963-Borsov_naredi_analiz_na_velikdenskoto_poskapvane.html">http://btvnews.bg/news/bulgaria/announce/1468886963-Borsov_naredi_analiz_na_velikdenskoto_poskapvane.html</a> target="_blank"
<a href="#">Прочит в сайта</a>	САЩ ще плаща с обезглавени войници	<a href="http://btvnews.bg/news/svetut/announce/128323925-SASht_shte_plashta_s_obezglaveni_voynitsi.html">http://btvnews.bg/news/svetut/announce/128323925-SASht_shte_plashta_s_obezglaveni_voynitsi.html</a> target="_blank"
<a href="#">Прочит в сайта</a>	Сирия – рецидив от Студената война	<a href="http://btvnews.bg/news/svetut/announce/12497800-Siriya_-_retsdiv_ot_Studenata_voyna.html">http://btvnews.bg/news/svetut/announce/12497800-Siriya_-_retsdiv_ot_Studenata_voyna.html</a> target="_blank"
<a href="#">Прочит в сайта</a>	Цветанов иска парламентът да разследва австрийски скандал с българска следа	<a href="http://btvnews.bg/news/announce/1674854612-Tsvetanov_iska_parlamentat_da_razsledva_avstriyski_skandal_s_balgarska_sleda.html">http://btvnews.bg/news/announce/1674854612-Tsvetanov_iska_parlamentat_da_razsledva_avstriyski_skandal_s_balgarska_sleda.html</a> target="_blank"
<a href="#">Прочит в сайта</a>	Едрите хонорари в здравното министерство за участие в проекти били съгласувани	<a href="http://btvnews.bg/news/bulgaria/announce/1769670186-Edrite_honorari_v_zdravnoto_ministerstvo_za_uchastie_v_proekti_bili_saglasuvani.html">http://btvnews.bg/news/bulgaria/announce/1769670186-Edrite_honorari_v_zdravnoto_ministerstvo_za_uchastie_v_proekti_bili_saglasuvani.html</a> target="_blank"
<a href="#">Прочит в сайта</a>	Уверен Станишев отново атакува Парванов	<a href="http://btvnews.bg/news/bulgaria/announce/327775419-Uveren_Stanishev_otnovo_atakuva_Parvanov.html">http://btvnews.bg/news/bulgaria/announce/327775419-Uveren_Stanishev_otnovo_atakuva_Parvanov.html</a> target="_blank"
<a href="#">Прочит в сайта</a>	Радослав Гайдарски: На Константинов му пречат да работи честно	<a href="http://btvnews.bg/news/bulgaria/announce/1988548509-Radoslav_Gaydarski_Na_Konstantinov_mu_prechat_da_raboti_chestno.html">http://btvnews.bg/news/bulgaria/announce/1988548509-Radoslav_Gaydarski_Na_Konstantinov_mu_prechat_da_raboti_chestno.html</a> target="_blank"
<a href="#">Прочит в сайта</a>	Пиянски скандал завърши с един убит и трима ранени	<a href="http://btvnews.bg/news/bulgaria/announce/262001315-Piyanski_skandal_zavarshi_s edin ubit i trima raneni.html">http://btvnews.bg/news/bulgaria/announce/262001315-Piyanski_skandal_zavarshi_s edin ubit i trima raneni.html</a> target="_blank"
<a href="#">Прочит в сайта</a>	Сара Боевска била пред изпращане в	<a href="http://btvnews.bg/news/bulgaria/announce/436063652-Sara_Boevska_bila_pred_izprashane_v.html">http://btvnews.bg/news/bulgaria/announce/436063652-Sara_Boevska_bila_pred_izprashane_v.html</a> target="_blank"

100%