

## Exercise 8

### Page Menu.aspx, ContentPlaceHolder2

5. Add the following controls in the page Menu.aspx, ContentPlaceHolder2:

5.1. Example text and a label where a message will be displayed when an error occurred.

Избраните от вас книги:

```
<asp:Label ID="lblErr" runat="server" Text=""></asp:Label>
```

5.2. Add a control `GridView`. Edit the property `AllowPaging="true"`, to display the selected records divided into pages.

Add three columns of `BoundField` type with properties:

- `HeaderText = АВТОРИ, ЗАГЛАВИЕ и ISBN`
- `DataField = Authors, Title, ISBN;`

A column of `CommandField` type - `Select` with the following attributes:

- `SelectText=" _ "`,
- `ShowSelectButton="True"`

**Source:**

```
<asp:GridView ID="grvSelectedBook" runat="server" AllowPaging="True"
    onpageindexchanging="grvSelectedBook_PageIndexChanging"
    AutoGenerateColumns="False">
    <Columns>
        <asp:BoundField DataField="Authors" HeaderText="АВТОРИ" />
        <asp:BoundField DataField="Title" HeaderText="ЗАГЛАВИЕ" />
        <asp:BoundField DataField="ISBN" HeaderText="ISBN" />
        <asp:CommandField SelectText=" _ " ShowSelectButton="True" />
    </Columns>
</asp:GridView>
```

5.3. Add the example code to `Menu.aspx.cs`. You have to create functions for handling multiple events on the page.

5.3.1. The first event is page load, you have to get input parameter `Category` and display corresponding category books from the database. The connection to the database again is in `eLibraryServer.DAL` class, which is part of the server application.

```
protected void Page_Load(object sender, EventArgs e)
{
    .....
    String Category = Request.QueryString["Category"];
    DataTable bookList = new DataTable();
    if (Category != "")
    {
        try
        {
            bookList = oDAL.getBooksByCategory(Category);
        }
        catch (Exception ex)
        {
            lblErr.Text = "No link to the Data Server!";
        }
    }
}
```

```

    }
    grvSelectedBook.DataSource = bookList.DefaultView;
    grvSelectedBook.DataBind();
}

```

5.3.2. Make a method for PageIndexChanging event that changes the page index and loads a new page. Function is as follows:

```

protected void grvSelectedBook_PageIndexChanging(object sender, GridViewPageEventArgs e)
{
    grvSelectedBook.PageIndex = e.NewPageIndex;
}

```

5.3.3. Make a method for SelectedIndexChanged event that redirects to the next page Details.aspx, with parameter - the book's ISBN. Function is as follows:

```

protected void grvSelectedBook_SelectedIndexChanged(object sender, EventArgs e)
{
    String strISBN;
    strISBN = grvSelectedBook.SelectedRow.Cells[2].Text;
    Response.Redirect("Details.aspx?ISBN="+ strISBN, true);
}

```

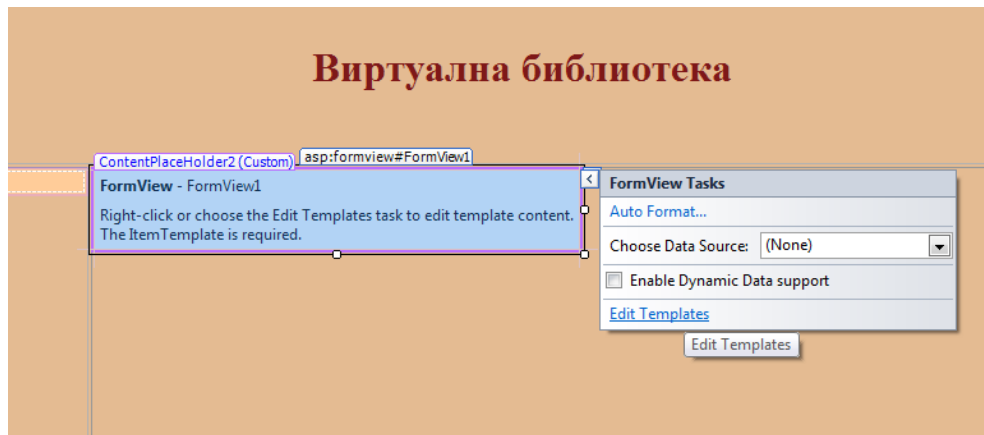
6. Create a new empty page Details.aspx and test the application.

**Example result:**

Виртуална библиотека				
<b>Меню и категории</b> <a href="#">Database</a> <a href="#">Programming</a> <a href="#">Web</a> <a href="#">Graphics</a> <a href="#">Hardware</a> <a href="#">Systems</a> <a href="#">Miscellaneous</a>		Избраните от вас книги:		
		АВТОРИ	ЗАГЛАВИЕ	ISBN
		Zelkowitz, Marvin V.; Owens, Kevin T.;	Oracle Triggers and Stored Procedure Programming	0-0134436-3-1
			Programming in Clipper	0-0201145-8-3
		Antonakos, James L.; Uccello, Tony;	An Introduction to Assembly Language Programming for the Intel 8088 Microprocessor	0-0230362-0-6
		Duntemann, Jeff; Ziegler, Michael R.; Barnett, Raymond A.;	Applied Calculus With Linear Programming : For Business, Economics, Life Sciences, and Social Sciences (College Mathematics Series	0-0230650-8-7
		Brey, Barry B.; Leaver, Mike;	8086/8088, 80286, 80386, And 80486 Assembly Language Programming	0-0231424-7-2
		Brey, Barry B.; Vernick, Michael;	The Intel Microprocessors : 8086/8088, 80186, 80286, 80386, and 80486 : Architecture, Programming, and Interfacing (Merrill's International Series in	0-0231425-0-2
		Zelkowitz, Marvin V.; Brey, Barry B.;	Programming the 80286, 80386, 80486, and Pentium-Based Personal Computer	0-0231426-3-4
		Nesbitt, David; Duggal, Sudesh M.;	Business Programming Using Foxpro	0-0233058-5-1
		Federighi, Francis D.; Giles, William B.;	Assembly Language Programming for the Intel 80Xxx Family (MacMillan Programming Languages Series	0-0234299-0-9
			Applications Programming in ANSI C/Solution Manual	0-0235973-0-5
		1 2 3 4 5 6 7 8 9 10 ...		

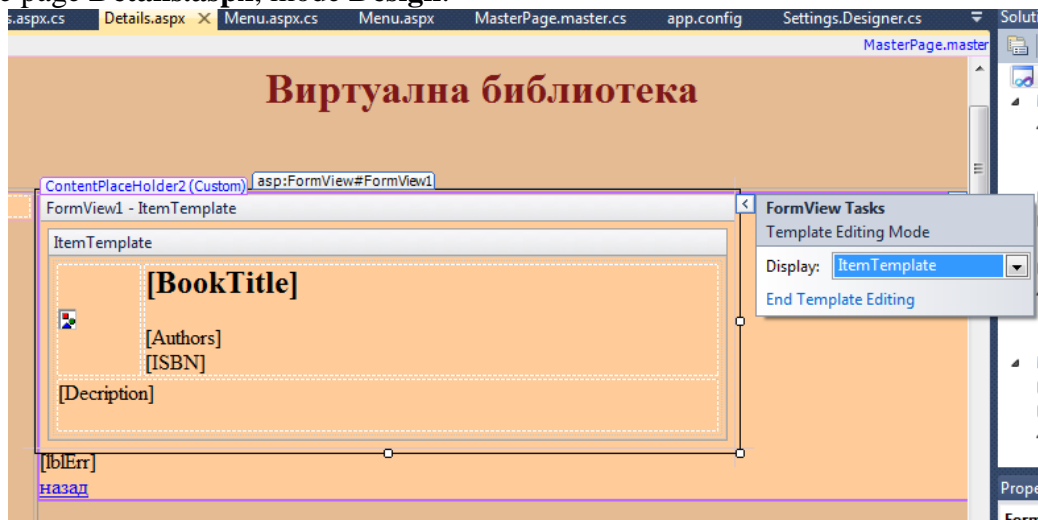
## Page Details.aspx

- Add a FormView control in the page Details.aspx. Choose Edit Templates ->ItemTemplate from the smart tag of the control.



- In the `ItemTemplate` of the FormView control, add a html table with 2 rows and 2 columns. On the second row, the columns are merged (`colspan=2`)
- Put a control `<asp:Image>` in the first cell of the table. The folder with the illustrations can be downloaded from the site where the exercise is.
- Choose Edit Data Bindings from the ImageTasks menu. Here you have to write the linking code to the illustration. Choose radio button Custom binding and write the code:  
`"/BookPictures/" + Eval("ISBN") + ".jpg"`
- In the second cell of the table insert: name of the book, authors and ISBN using label controls and methods: `<%# Eval("Title") %>`, `<%# Eval("Authors") %>`, `<%# "ISBN " + Eval("ISBN") %>`. Put the code to the property **Text** of the labels.
- Insert the description of the book in the last row. - `<%# Eval("Description") %>`
- Add label **lblErr**, where the error messages will be displayed.
- Add Link (back) to the previous page.

View of the page **Details.aspx**, mode **Design**:



Control FormView / Page Details.aspx / Mode Source:

```
<asp:FormView ID="FormView1" runat="server">
  <ItemTemplate>
    <table style="width:100%;">
      <tr>
        <td>
          <asp:Image ID="Image1" runat="server"ImageUrl='<%# "/BookPictures/" + Eval("ISBN") + ".jpg" %>' />
        </td>
        <td>
          <h2>
```

```

        <asp:Label id="BookTitle" Runat="Server" Text='<%# Eval("Title") %>' />
        <br/>
    </h2>
    <asp:Label id="Authors" Runat="Server" Text='<%# Eval("Authors") %>' />
    <br/>
    <asp:Label id="ISBN" Runat="Server" Text='<%# "ISBN " + Eval("ISBN") %>' />
    <br/>
</td>
</tr>
<tr>
    <td colspan=2>
        <asp:Label ID="Description" Width="500" Runat="Server" Text='<%# Eval("Description") %>' />
        <br/>
        <br/>
    </td>
</tr>
</table>
</ItemTemplate>
</asp:FormView>

```

7. Add code in the page `Details.aspx.cs`.

When loading the page, it should take ISBN of the book submitted by the previous page using parameter `QueryString`.

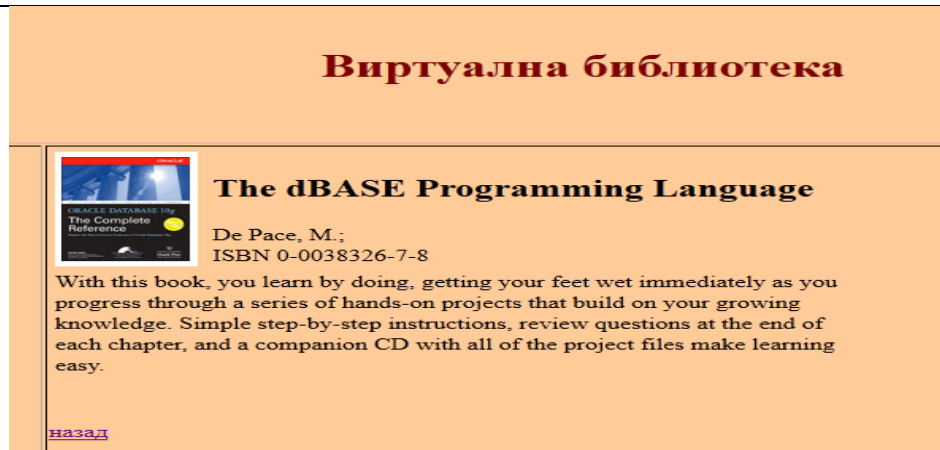
Data is displayed by the server class `eLibraryServer.DAL`.

The code is as follows:

```

protected void Page_Load(object sender, EventArgs e)
{
    System.Data.DataTable bookDetails=new System.Data.DataTable();
    eLibraryServer.DAL1 oDAL =new eLibraryServer.DAL1();
    string strISBN = Request.QueryString["ISBN"];
    try
    {
        bookDetails = oDAL.getBookByISBN(strISBN);
    }
    catch(Exception ex)
    {
        lblErr.Text = "No link to the Data Server!";
    }
    FormView1.DataSource = bookDetails.DefaultView;
    FormView1.DataBind();
}

```



8. Test your site with `Menu.aspx` as a first page.