Lab 10 – Making Database Connection in ASP.NET Website

Make a new website:

Ø	Start Pag	ge - Micro	osoft Visi	ual Stu	udio (Ad	dminis	strator)							
FILE	EDIT	VIEW	DEBUG	TE	EAM	SQL	тоо	LS	TEST	ANALYZE	WINDOW	HELP		
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													ОК	Cancel

Inside the website add a Database

	Add New Item	Ctrl+Shift+A	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Build Web Site Publish Web Site Scope to This New Solution Explorer View Add Add Reference	Shift+F6	Solutio	on Explorer - 기 이 슈 '이 ~ 은 Q 라 [Solution Explorer (Ctrl+;) Jution 'WebSite5' (1 project WebSite5 아 Web.config 아 Web.Debug.config	₽ × <u> </u> ¹
***	Existing Item New Folder Add ASP.NET Folder New Virtual Directory	snin+Ait+A	·A , 气	Add Service Reference View Class Diagram Manage NuGet Packages				
	Web Form Web User Control JavaScript File Style Sheet		\$	Copy Web Site Start Options Set as StartUp Project Use Visual Studio Development Server			n Explorer Team Explorer	Ψ×
	HTML Page SQL Server Database Master Page Web Form (with master)		تە * 3	View in Browser (Firefox) View in Page Inspector Browse With Refresh Folder	Ctrl+K, Ctrl+		ymous Au' Enabled ath C:\Users\Toni\ aged Pipelii Integrated	,Docu

If you don't see "SQL Server Database" option, then Choose "Add New Item" and find it there!

Give name "myDatabase" to the new DB

Specify Name for Item							
Item name:	myDatabase						
		OK Cancel					

Click YES:



Design a table

In the Server Explorer right-click the mouse on the "Tables" line. Choose the option to Add new table.



In the window that opens write the names and types of the columns of the table. Change the name "Users", and the IDENTITY of the Id column.

db	dbo.Users [Design]* \ominus 🗙									
Update Script File: dbo.Table.sql*										
		Name	Allow Nulls	Default						
	~ 0	Id	int							
		Username	nvarchar(20)							
		Password	nvarchar(50)							
		Email	nvarchar(40)							
		Age	int							
		esign 14 ST-SQL CREATE TABLE [dbo].[Us ([Id] INT NOT NULL [Username] NVARCHA [Password] NVARCHAR(4 [Email] NVARCHAR(4 [Age] INT NOT NULL)	PRIMARY KEY ID RR(20) NOT NULL RR(50) NOT NULL H0) NOT NULL,	ENTITY,		=				
100	%	• (

Finally click Update to create the table.

Create one table

In the window choose "Update Database" button:

Preview Database Updates			? ×
Highlights			
None			
User actions			
Create			
[dbo].[Users] (Table)			
Supporting actions			
None			
	<u>Generate Script</u>	<u>U</u> pdate Database	Cancel

Add Data to the table



In the new window write in the columns some information:

dbo.Users [Data] 🗢 🗙 dbo.Users [Design]										
🗏 🔁 🦻 Max Rows: 1000 - 🖵 🗗										
	Id	Username	Password	Email	Age					
	1	user1	123456	user@gmail.com	23					
	2	admin	qawsed	admin@mail.bg	31					
▶*	NULL	NULL	NULL	NULL	NULL					

Adding page in the website

					Solution	Explorer 👻 🔻 🗙		
					GO	₲ ७ - २ ० 🗊 🕒 "		
			*	Build Web Site	Shift+F6	tion Explorer (Ctrl+;) 🛛 🔎 👻		
			€	Publish Web Site		on 'WebSite5' (1 project)		
				Scope to This		ebSite5		
			Ē	New Solution Explorer View		App_Data		
с. П	Add New Item	Ctrl+Shift+A	1	Add		Web.Debug.config		
ta	Existing Item	Item Shift+Alt+A		Add Reference				
624	New Folder Add ASP.NET Folder		Add Service Reference Add Service Reference	Add Service Reference				
	New Virtual Directory		苗	Manage NuGet Packages				
	Web Form		₽	Copy Web Site				
	Web User Control			Start Options		plorer Team Explorer		
	JavaScript File		ø	Set as StartUp Project				
	Style Sheet			Use Visual Studio Development Server		Web Site Descention		
	SQL Server Database		൭	View in Browser (Firefox)		web Site Properties +		
	HTML Page		View in Page Inspector		Ctrl+K, Ctrl+G	ľ		
	Master Page		Browse With	Browse With		ous Au' Enabled		
-	Web Form (with master)		0	Refresh Folder		C:\Users\Toni\Docu		
			+ -			u ripeni integrated		

Leave the name "Default" and click OK.

Switch to design view. Then drag & drop a **SqlDataSource** control from the Toolbox.

Toolbox	C 100000000000000000 👻	P	-
Search	Toolbox	A - asp:sqldatasource#SqlDataSource1	*
⊿ Data		SqlDataSource - SqlDataSource	s
h.	Pointer	Configure Data Sour	<u>ce</u>
E	Chart		
E	DataList		
ഞ	DataPager		
O	DetailsView		
-,5	EntityDataSource		
	FormView		
	GridView		
0	LinqDataSource		
	ListView		
- - -	ObjectDataSource		
9	QueryExtender		
	Repeater		
×.	SiteMapDataSource	e	
SQL	SqlDataSource		Ľ
(8)	XmlDataSource	Data Tools Operations	×
▷ Valid	ation	Ľ. Ž	

Push the arrow to open the configuration wizard.

From the drop-down menu choose your database file.

Co	nfigur	re Data Source - SqlDataSource1	8 23	J
		Choose Your Data Connection		
	Whice myD	ch data connection should your application use to connect to the database? Database.mdf	ection	
		Connection string Data Source=(LocalDB)\v11.0:AttachDbFilename=IDataDirectoryI\mvDatabase.mdf:Integrated Security=True	*	
			Ŧ	
		< Previous Next > Finish C	ancel	

Click Next.

Change the name of the connection string to myConnectionString.



Click Next.

Configure Data Source - SqlDataSource1	? ×
Configure the Select Statement	
How would you like to retrieve data from your database?	
Specify a custom SQL statement or stored procedure	
Specify columns from a table or view	
Name:	
Users 🗸	
Columns:	
*	Return only unique rows
Id	WHERE
Username Ressword	
Email	ORDER BY
Age	Advanced
SELECT statement:	
SELECT * FROM [Users]	*
	*
< Previous Next >	Finish Cancel

Click Next.

Test the query and if you see the list of the users click "Finish"

Configure Data Source - SqlDataSource1									
		est Query							
То	preview the o	lata returneo	l by this data sourc	e, click	Test Query. To complete this wizard, click Finish.				
Id	Username	Password	Email	Age					
1	user1	123456	user@gmail.com	23					
2	admin	qawsed	admin@mail.bg	31					
					Test Que				
SEL	ECT stateme	nt:				J			
SE	LECT * FROM	[Users]				*			
					< Previous Next > Finish Ca	ancel			

Since we configured the database connection, we need a table to show the data from the database. We will use a control, named **GridView**. Add one to the page by drag & drop from the Toolbox.

Toolbo	x	Ψ×	Default.aspx*	* + ×				Ŧ	Solution Explorer
Search Toolbox 🛛 🔎 🗸		ρ-			٠	G ⊖ ∰ ™o - ₹			
⊿ Data			SolDataSo asp:gridvie	w#GridView1	ataSource1				Search Solution Explorer
h.	Pointer		Column0	Column1	Column2	<	GridView Tasks		
Ξ	Chart		abc	abc	abc		Auto Format		
e	DataList		abc	abc	abc		Choose Data Source	(No	nne) 🚽
æ	DataPager		abc	abc	abc	ŕ	choose bata source.		sincy 💽
Q	DetailsView		abc	abc	abc		Edit Columns		
÷.	EntityDataSource		abc	abc	abc		Add New Column		
	FormView		auc	0	auc	ð	Edit Templates		
- ÷	GridView								
0	LinqDataSource								

Select "SqlDataSource1" as a Data source to the table.

GridView Tasks
Auto Format
Choose Data Source: SqlDataSource1
Configure Data Sol Connect to an existing data sou
Refresh Schema
Edit Columns
Add New Column
Enable Paging
Enable Sorting
Enable Selection
Edit Templates

Test the page in the browser by CTRL+F5.

http://localhost98/Default.aspx × +										
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[d	<u>Username</u>	Password	<u>Email</u>	Age						
l	user1	123456	user@gmail.com	23						
2	admin	qawsed	admin@mail.bg	31						
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Inserting users to the DB (database).

First, add Labels and Textboxes for the user information.

)efa	ault.aspx* 中	×			
5	abc	abc	abc	5	
6	abc	abc	abc	6	
7	abc	abc	abc	7	
8	abc	abc	abc	8	
9	abc	abc	abc	9	
Us Pa En Ag	sername nssword nail ge				

Add a Button, change its name to btnRegister, and its Text to "Register".

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	btnRegister System.Web.UI.WebControls					
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	(Expressions)	<u>^</u>				
~	(ID)	btnRegister				
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	PostBackUrl					
×	SkinID					
^	TabIndex	0				
	Text	Register				
A	ToolTip	-				



We need to configure the SQL Insert query. For this choose the SqlDataSoucre1 (one click only!) and find the Insert Query property.

You should see this window:

Command and Parameter Editor	And N.K.	? ×
INSERT command:		
1		×
Refresh Parameters]	Query Builder
Parameters:	Parar	neter source:
Name Value		
	4	
	×	
	Add Parameter	
		OK Cancel

Click on Query Builder...

Add Table						<u></u> ନ୍ଦ୍	
Tables	Views	Synonyms					
Users							
				(\frown		
			Refresh		Add	Close	

Select the table Users and click Add.

In the following window click on the columns we want to insert in, and in the table below write the names with the symbol @ in front of them – this means they are parameters.

Query Builder		144 C	Statistics and	841 S	? x
Users * (All Column Id Pusername Password Email Age	IS)				•
Column	New Value				<u> </u>
Username	@username				
Password	@pass				=
Email	@email				
Age	@age				-
INSERT INTO Users (Username, VALUES (@username,	Password, Email, Age) @pass,@email,@age)				
•					4
4 4 0 of 0	► H % [0]				
Execute Query				ок	Cancel

When everything is ready click OK.

To see the parameters you declared you need to click the button "Refresh Parameters".

Command and Parameter Editor	? <mark>×</mark>
INSERT command:	
INSERT INTO Users(Username, Password, Email, Age) VALU	ES (@username, @pass, @ernail, @age)
	*
Refresh Parameters	Query Builder
Parameters:	Parameter source:
Name Value	None -
username	DefaultValue:
pass	
age	Show advanced properties
Add Parameter]
	OK Cancel

For Each one of them you will need to choose its **Source**

ommand and Pa	rameter Editor	And Person in case				8	×
INSERT comm	and:						
INSERT INTO	Users(Usernam	e Password Email Age) VA	LUES (@use	mame @nass @email @	Dage)		
	05015(050110111	e, i ussiloid, ziildii, i ge, i i	2023 (2030	nanne, e pass, e ennan, e	2090/		
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		٦					
Refresh P	ara <u>m</u> eters				Query B	uilder	
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Name	Value		^	Control	•		
username	TextBox1.Te	xt	↓	None)		
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age				OuervString			
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INSERT <u>c</u> omm INSERT <u>c</u> omm	and: Users(Usernam	e, Password, Email, Age) VA	LUES (@use	rname, @pass, @email, @	Dage)	8	×
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INSERT <u>c</u> omm INSERT <u>c</u> omm INSERT INTO Param <u>e</u> ters: Name username pass email age	and: Users(Usernam and: Users(Usernam arameters Value TextBox1.Tex Specify Cont	e, Password, Email, Age) VA	LUES (@use	rname, @pass, @email, @ Parameter <u>s</u> ource: Control <u>C</u> ontrolID: GridView1 TextBox1 TextBox2 TextBox3 TextBox4	Dage) Query B	uilder	
INSERT <u>c</u> omm INSERT <u>c</u> omm INSERT INTO Refresh P Param <u>e</u> ters: Name username pass email age	and: Users(Usernam Parameters Value TextBox1.Tex Specify Cont	e, Password, Email, Age) VA	LUES (@use	rname, @pass, @email, @ Parameter <u>s</u> ource: Control <u>C</u> ontrolID: GridView1 TextBox1 TextBox2 TextBox3 TextBox4	Dage)	uilder	

When we are ready with that, every parameter should be connected to a textbox.

Command and Pa	arameter Editor	1000		- 100	2	x
INSERT <u>c</u> omm	and:					
INSERT INTO	Users(Username	, Password, Email, A	lge) VALUES (@user	name, @pass, @email, @age	2)	*
Refresh F	⁰ ara <u>m</u> eters				Query Builder	Ŧ
Param <u>e</u> ters:				Parameter <u>s</u> ource:		
Name	Value		1	Control	•	
username	TextBox1.Tex	· /	Ψ	<u>C</u> ontrolID:		
pass	TextBox2.Text			TextBox4		-
age	TextBox4.Text	t	×	DefaultValue:		
				Show advanced properties		
		<u>A</u> dd Parame	ter			
				O	Can	:el

Double click on our Register Button to generate the OnClick code.



In the method that appeared write the underlined in red code:

Default.aspx.cs* 🕂 🗙 Default.aspx*	
🔩 _Default 👻	♥ _* btnRegister_Click(object sender, EventArg →
using System.Web.UI;	+
using System.Web.UI.WebControls	s;
□public partial class _Default	: System.Web.UI.Page
<pre>protected void Page_Load(ol</pre>	bject sender, EventArgs e)
<pre>}</pre>	_Click(object sender, EventArgs e)
SqlDataSource1.Insert());
}	

Now test in the browser with CTRL+F5.

5	http://localhost98/Default.aspx × +											
	-	ocalhost:51398/D	efault.aspx	▼ (3	Q Search		ŧ	6	⋒	»	≡
Id	Userna	me Password	Em:	ul	Age							
1	user1	123456	user@gm	ail.com	23]						
2	admin	qawsed	admin@n	nail.bg	31]						
Re	egister a	new user:										
Us	sername	user2										
Pa	assword	qwerty										
En	nail	user2@mail.bg	I									
A	ge	20										
	Register ,											
		\mathbf{v}										

After click on "Register":

http://localhost98/Default.aspx × +													
♦ Iocalhost:51398/Default.aspx ▼ C Search									۰	6	⋒	»	≡
Id	Userna	me	Password	Em	ail	Age							
1	user1		123456	user@gn	nail.com	23]						
2	admin		qawsed	admin@r	nail.bg	31							
3	3 user2		qwerty	user2@n	nail.bg	20							
Register a new user: Username user2													
Pa	Password		qwerty										
En	nail	user2@mail.bg]								
Ag	Age]								
F	Register]											

Tasks:

- Make the password hidden with ****.
- Change the type of the textbox for the email to email and the age to number to have HTML5 validation.