
Login Manager ASPX Sample

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Introduction

This is part B2 of Login Manager document. The whole document consists of following files.

- Part A – It is a reference to the Login Management Framework. It can be downloaded from <http://www.limnor.com/support/LoginManagerPartA.PDF>
- Part B1 – It contains the first part of a Windows Form Application sample. It can be downloaded from <http://www.limnor.com/support/LoginManagerPartB1.PDF>
- Part B2 – It contains the second part of a Windows Form Application sample. . It can be downloaded from <http://www.limnor.com/support/LoginManagerPartB2.PDF>
- Part C – It contains a PHP web application sample. It can be downloaded from <http://www.limnor.com/support/LoginManagerPartC.PDF>
- Part D – This file. It contains an ASPX web application sample.

Login Management Framework

See <http://www.limnor.com/support/LoginManagerPartA.PDF>

Windows Form Application Sample

See

<http://www.limnor.com/support/LoginManagerPartB1.PDF>

<http://www.limnor.com/support/LoginManagerPartB2.PDF>

PHP Web Project Sample

See <http://www.limnor.com/support/LoginManagerPartC.PDF>

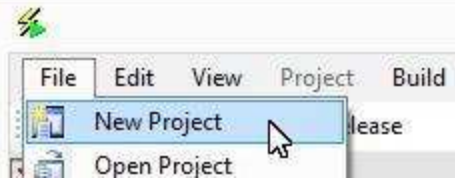
ASPX Web Project Sample

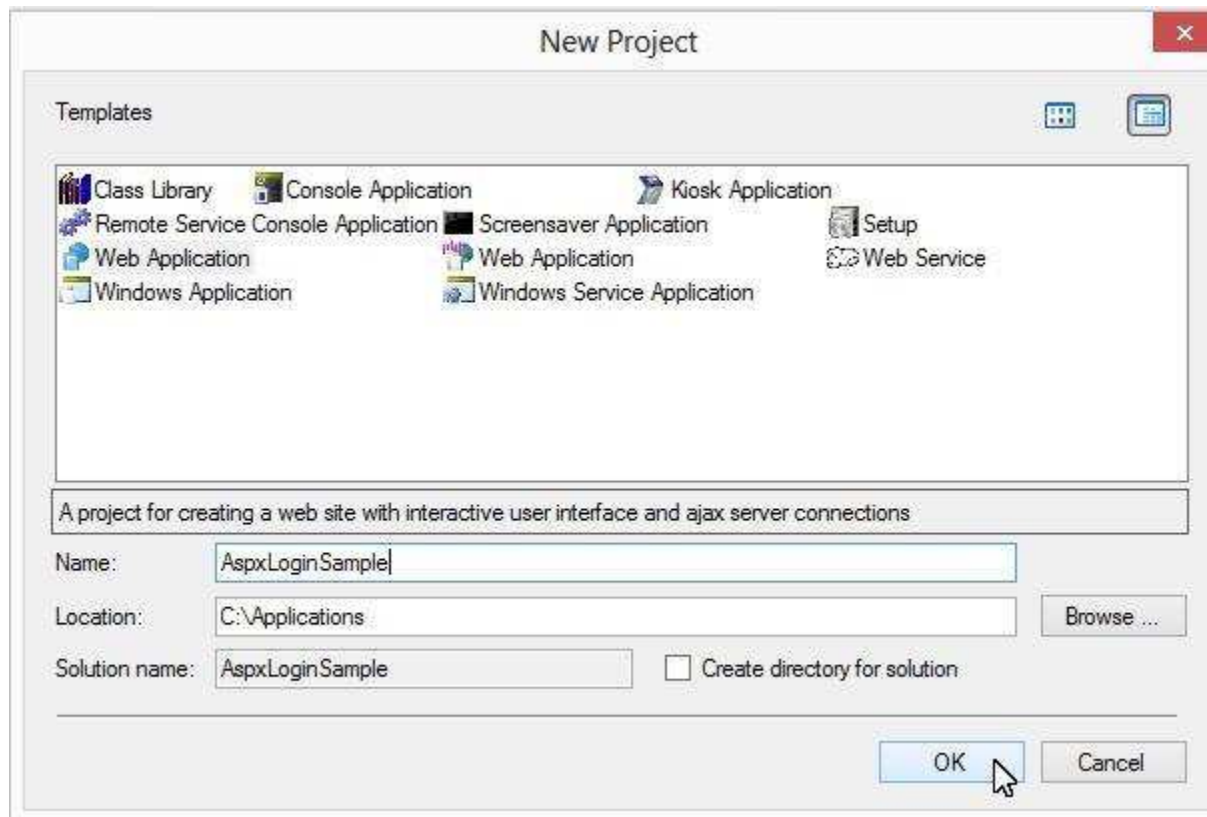
For this web sample, we'll build web pages to let users to manage their own accounts: create new an account; change password; create password reset code; reset password with a reset code.

This sample is a duplication of the previous PHP Web Project Sample. We will not go into details of each step. You may read <http://www.limnor.com/support/LoginManagerPartC.PDF>

Note: if you web server is based on .Net 3.5 then you need to use Limnor Studio for .Net 3.5 to compile your project. Do not use Limnor Studio for .Net 4.0 to compile your project.

Create Web Project

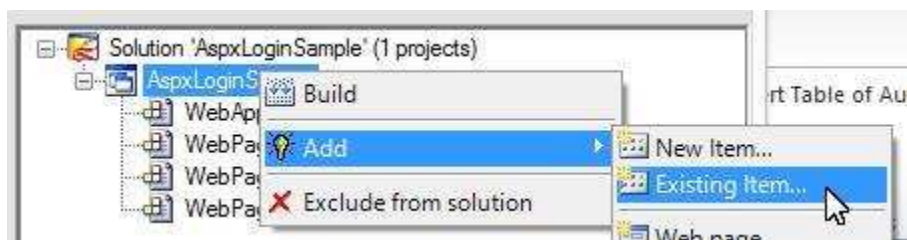


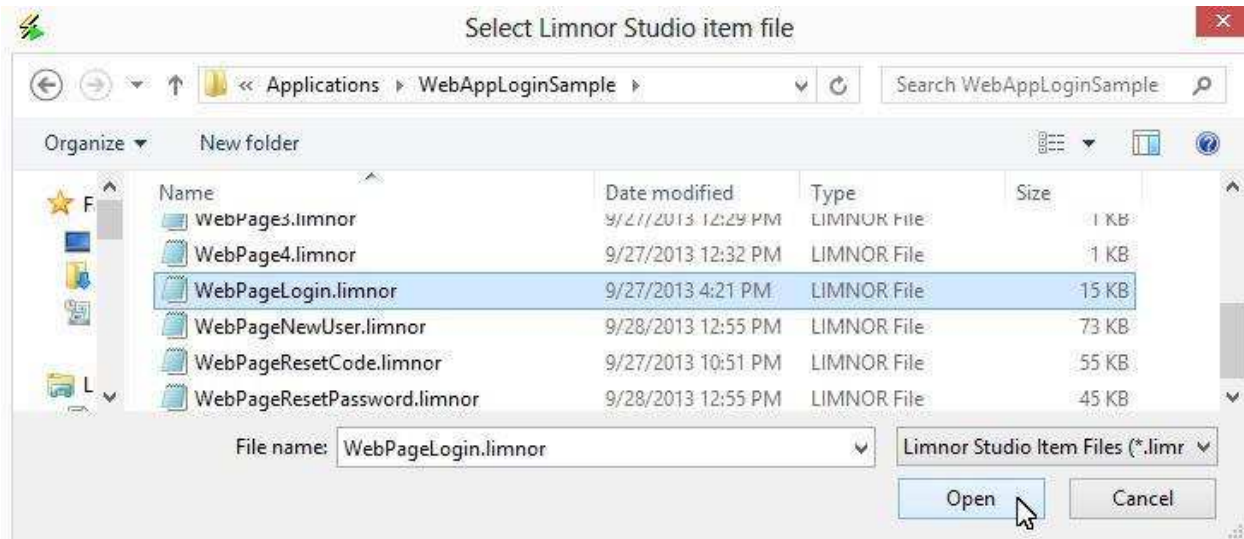


Create Login Page

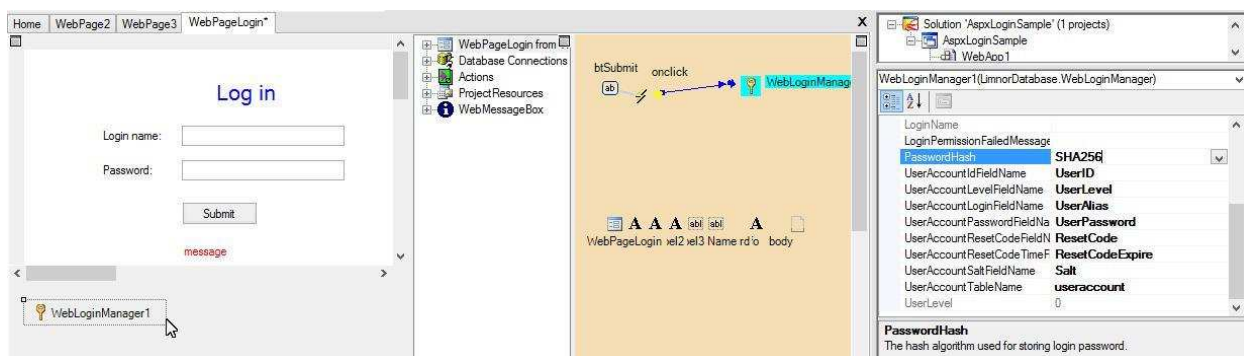
Web UI

Create a new web page; give it name "WebPageLogin". The process is exactly as we did for PHP. We just import the web page we did for PHP project:



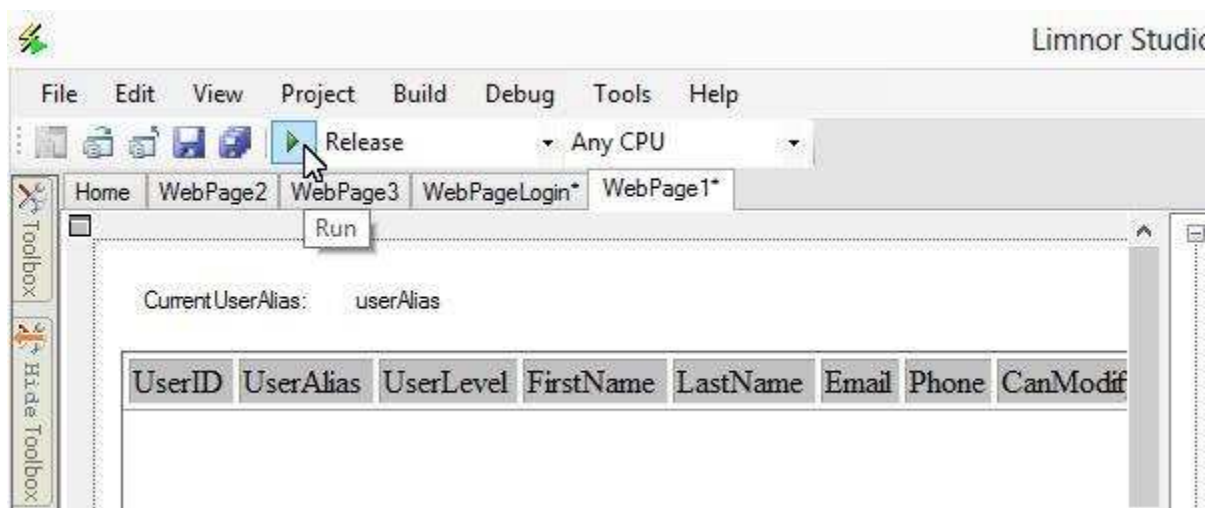


The page is imported from the PHP project into this ASPX project:

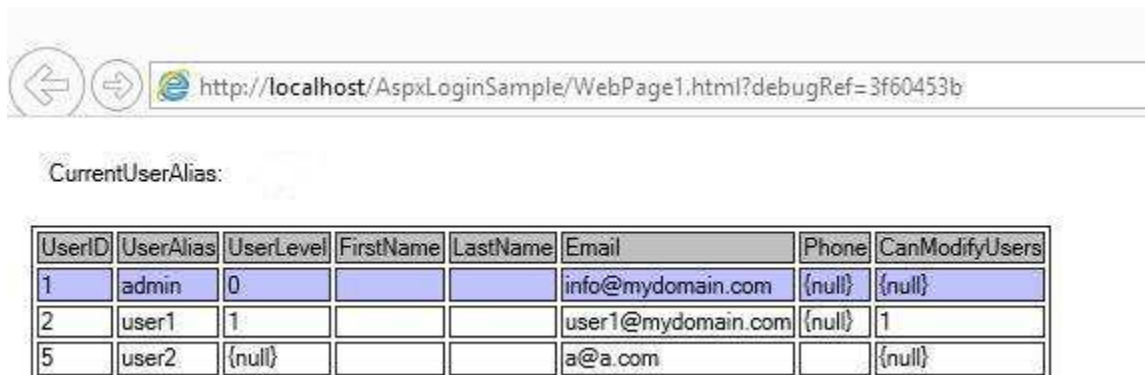


Protect web pages

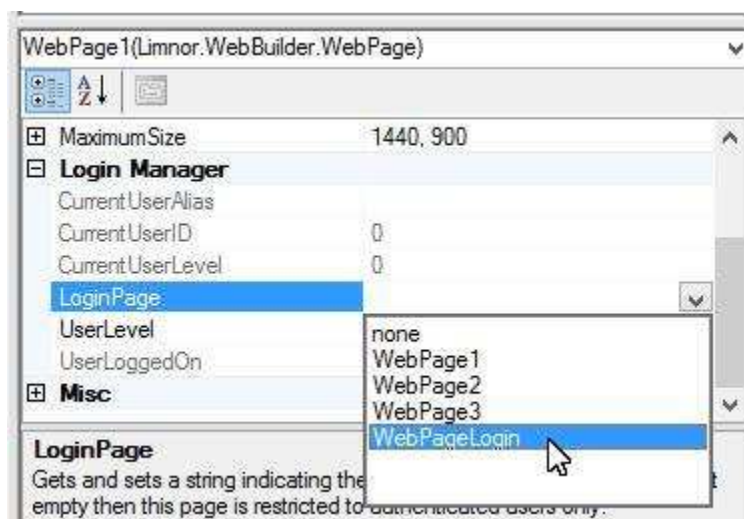
To protect a web page, set its LoginPage property to the login web page. Before we do that, let's see a page without protection by running the project:



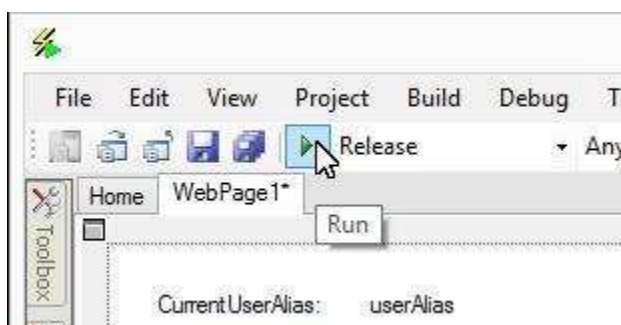
The web page appears:



Now we set LoginPage to the login page we developed previously:



Now let's run the project again:



This time, instead of showing the web page, the login web page appears:

Log in

Login name:

Password:

message

After log in, the web page appears:

CurrentUserAlias: user2

UserID	UserAlias	UserLevel	FirstName	LastName	Email	Phone	CanModifyUsers
1	admin	0			info@mydomain.com	{null}	{null}
2	user1	1			user1@mydomain.com	{null}	1
5	user2	{null}			a@a.com		{null}

We can see that the login page we imported from previous PHP web project works fine for our ASPX web project without any modifications.

Log off

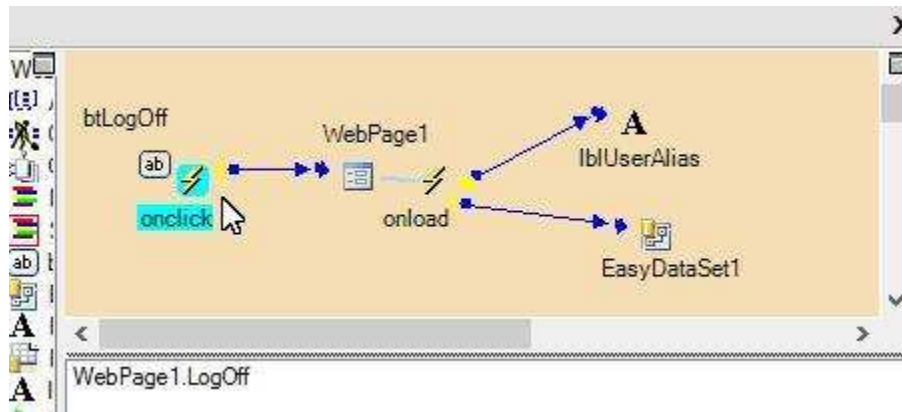
Logging off can be done from any web page. Let's use a button on Page1 to do it:

Home WebPage1*

CurrentUserAlias: userAlias

UserID	UserAlias	UserLevel	FirstName	LastName	Email	F
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The programming of the log off button is the same as we did for the PHP project.



Run the project, Page1 appears because we already logged on:

Click Log off:

UserID	UserAlias	UserLevel	FirstName	LastName	Email	Phone	CanModifyUsers
1	admin	0			info@mydomain.com	{null}	{null}
2	user1	1			user1@mydomain.com	{null}	1
5	user2	{null}			a@a.com		{null}

Page1 disappears and the login page appears:

Log in

Login name:

Password:

message

Note that because we set InactivityMinutes to 10, the logging off will occur automatically if there is not a mouse or keyboard activity in 10 minutes.

Permission Control

Let's use user "user1" to do the login:

Log in

Login name:

Password:

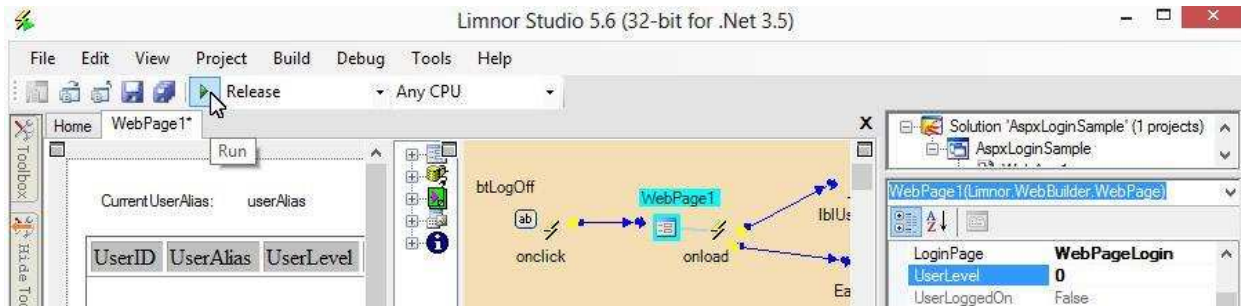
message

Page1 appears:

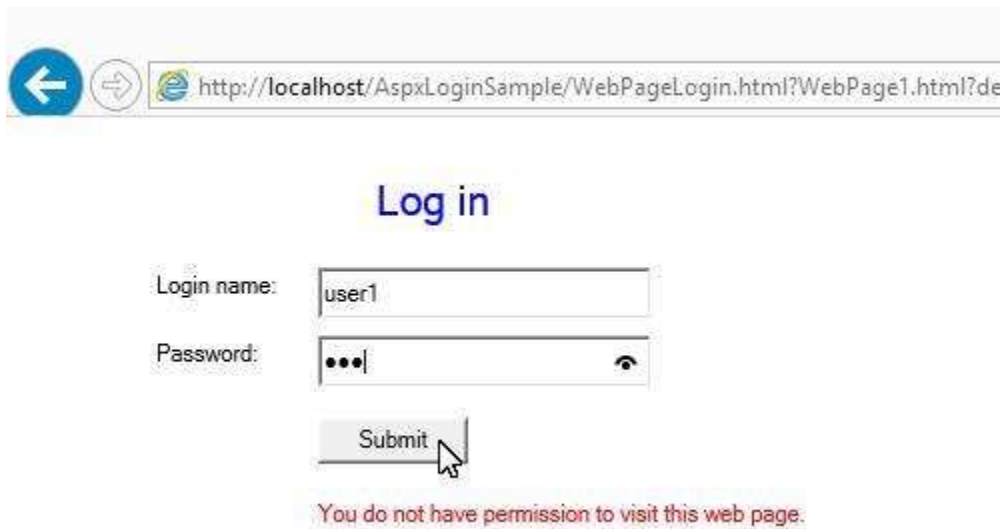
CurrentUserAlias: user1

UserID	UserAlias	UserLevel	FirstName	LastName	Email	Phone	CanModifyUsers
1	admin	0			info@mydomain.com	{null}	{null}
2	user1	1			user1@mydomain.com	{null}	1
5	user2	{null}			a@a.com		{null}

In the previous sample, "user1" is a user we created while making the Windows Forms Application sample. See <http://www.limnor.com/support/LoginManagerPartB1.PDF>. The user level for "user1" is 1. We see that "user1" may access Page1. This is because the UserLevel of Page1 is -1, indicating that the page does not use user level control. Let's change it to 0 to see what will happen:



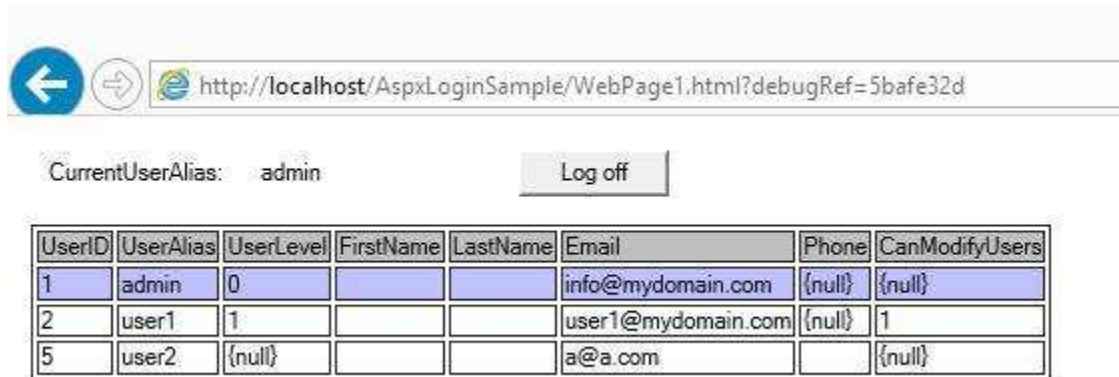
The login page appears again. We see permission error:



We log in as user “admin”:

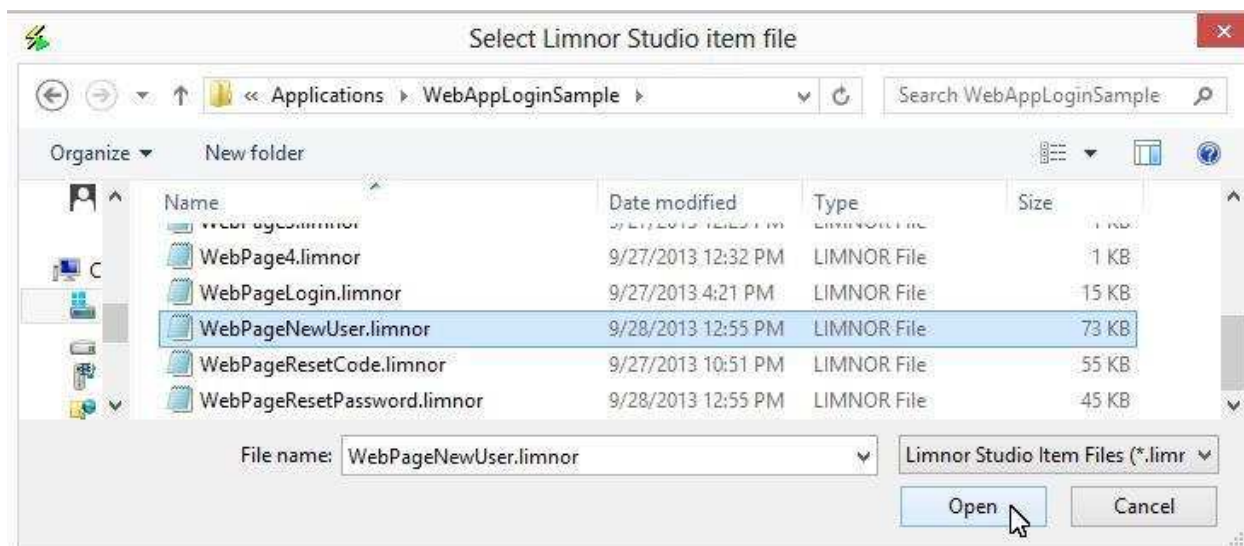
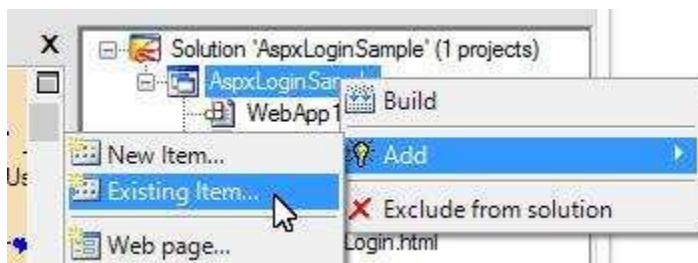


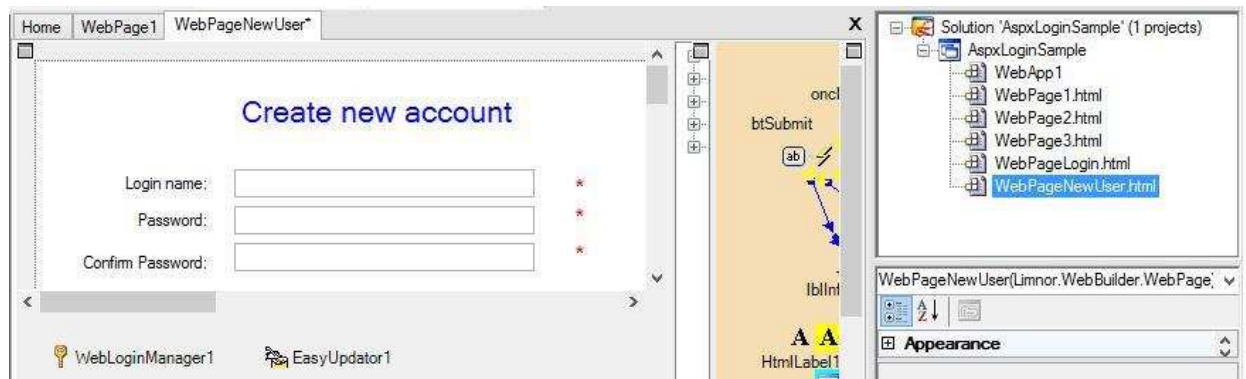
This time Page1 appears because admin’s user level is 0:



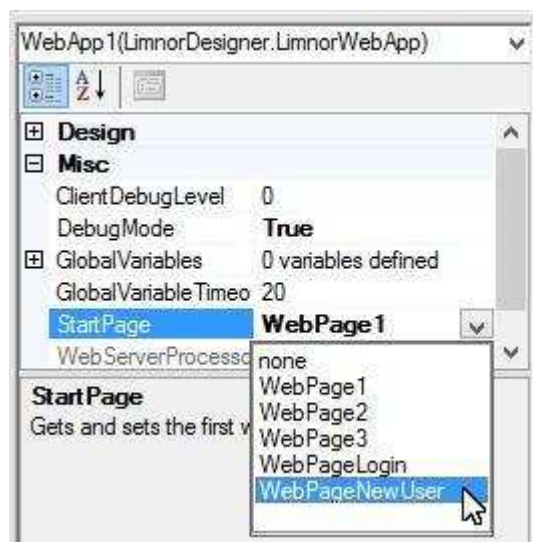
Create new account

We may create a web page to allow new users to create accounts. We already did it for a previous PHP web project sample. Let's import that web page to this project:





Set the page as the start page and run the project:



The page appears. Click the button without entering data. We get a message box:

The screenshot shows a web browser window with the address bar displaying `http://localhost/AspxLoginSample/WebPageNewUser.html?debugRef=7580a1fb`. The page title is "Create new account". The form contains the following fields: Login name, Password, Confirm Password, First name, Last name, Email, and Phone. A "Submit" button is at the bottom. A modal message box titled "Message from webpage" is displayed over the form, containing a yellow warning icon and the text: "Login name, password and email cannot be empty. The password and Confirm Password must match." The message box has an "OK" button.

This the effect of input verification.

Now let's use an existing login name and try to create a new account. We get an error message:

The screenshot shows the same "Create new account" form, but with the following values entered: Login name: user2, Password: (masked with dots), Confirm Password: (masked with dots), First name: (empty), Last name: (empty), Email: q@q.com, and Phone: (empty). The "Submit" button is being clicked. A red error message is displayed below the form: "Duplicate entry 'user2' for key 'UserAlias'". Below the error message is a stack trace:

```
Stack trace:  
at MySql.Data.MySqlClient.MySqlStream.ReadPacket()  
at MySql.Data.MySqlClient.NativeDriver.GetResult(Int32& affectedRow, Int64& insertedId)  
at MySql.Data.MySqlClient.Driver.GetResult(Int32 statementId, Int32& affectedRows, Int64& insertedId)  
at MySql.Data.MySqlClient.Driver.NextResult(Int32 statementId, Boolean force)  
at MySql.Data.MySqlClient.MySqlDataReader.NextResult()  
at MySql.Data.MySqlClient.MySqlCommand.ExecuteReader(CommandBehavior behavior)  
at MySql.Data.MySqlClient.MySqlCommand.ExecuteNonQuery()  
at LimnorDatabase.EasyUpdater.Execute()
```

Comparing with the PHP project sample, we can see that the wording of the error message is different; this is because that in a PHP project, the error message is from a PHP MySQL engine; in an ASPX project, the error message is from an ADO.Net driver.

Use a new login name and try it again. This time it succeeds:

Create new account

Login name: user3

Password: ...

Confirm Password: ...

First name:

Last name:

Email: q@q.com

Phone:

Submit

Message from webpage

New account created.

OK

Let's try to use this new account to access Page1.html:

http://localhost/AspxLoginSample/WebPage1.html

Ring Suggestions

The login page appears. Log in using the new account:

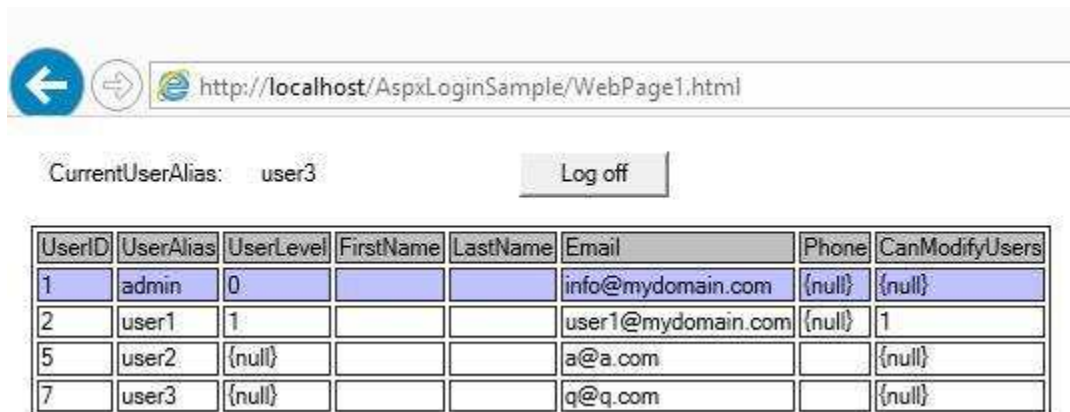
Log in

Login name: user3

Password: ...

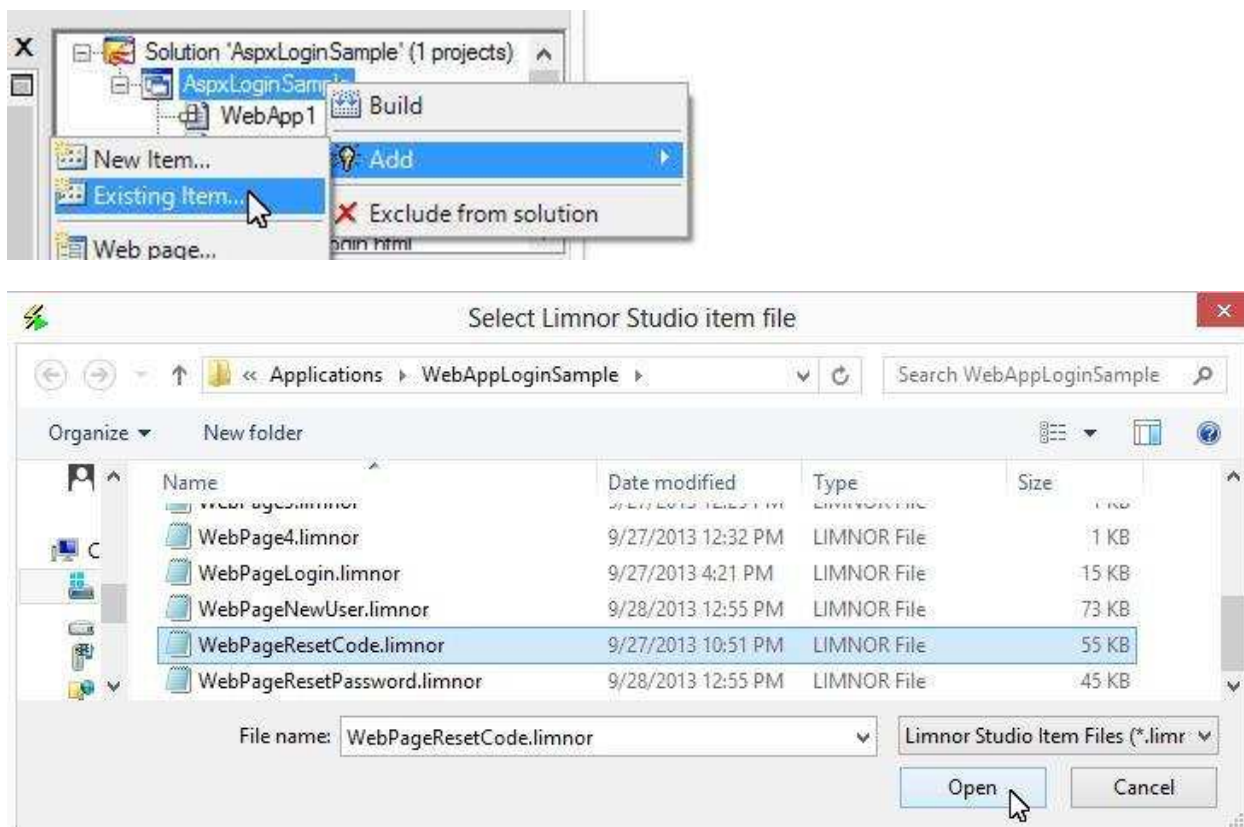
Submit

Page1 appears, indicating that the new user account created successfully.

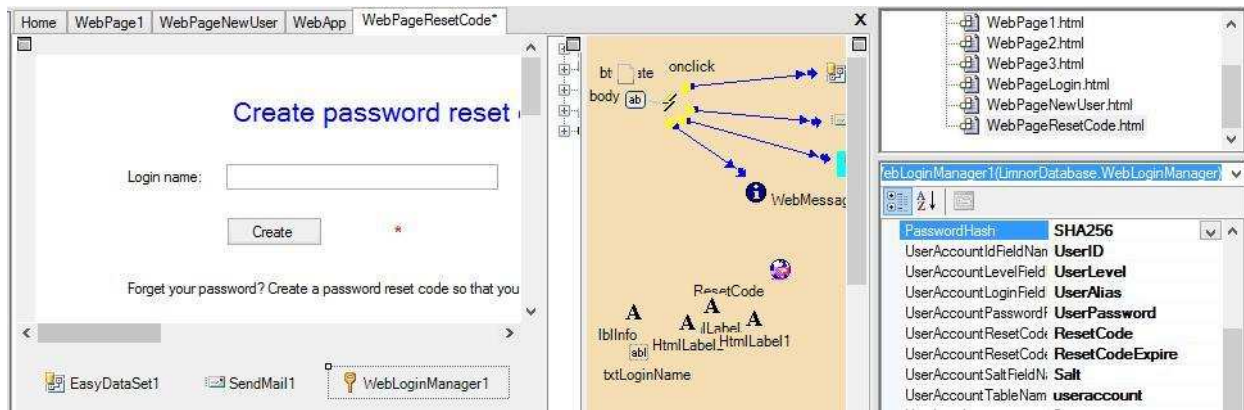


Reset Password – Create reset code

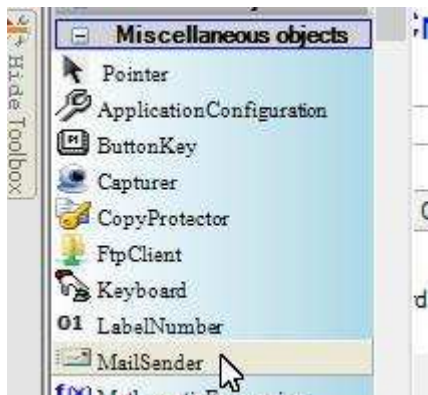
We create a web page to generate reset code and send it to the user via email. We already create such a web page in a previous PHP web project. We may import it to this project:



The web page is imported into this project:

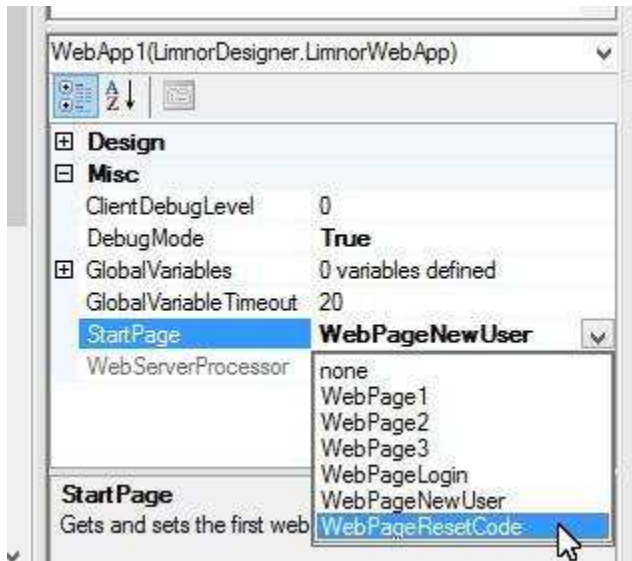


Note that component SendMail1 is a PHP component. For an ASPX project, we may use a .Net component, such as a MailSender:

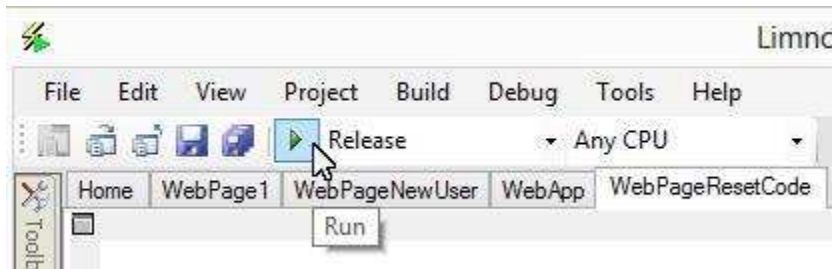


We are not going into details of doing it.

Set the start page to this new page to test it:



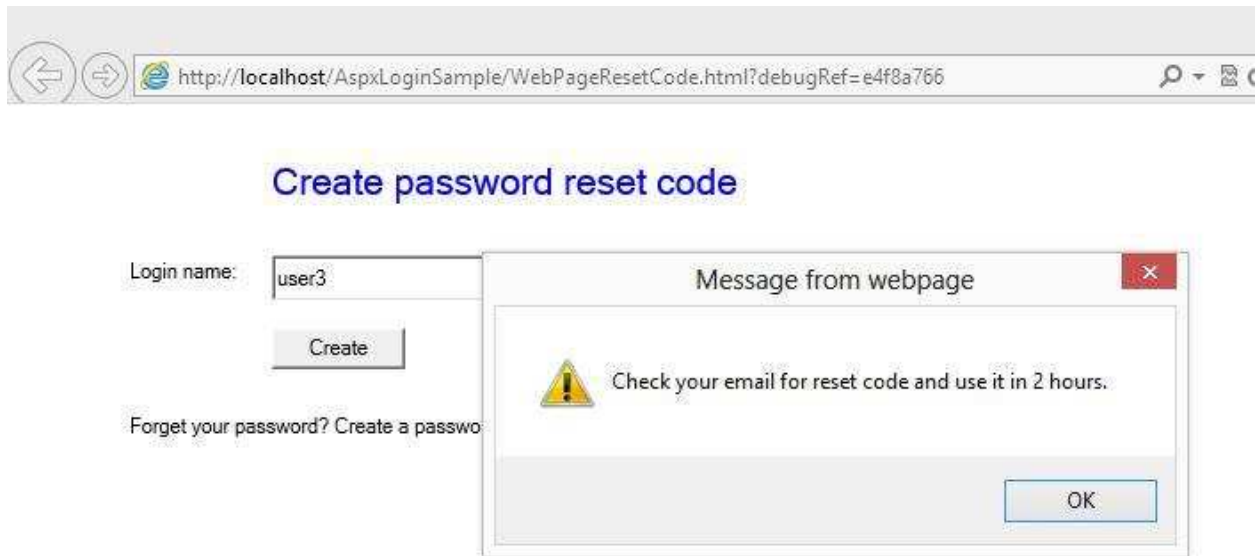
Note that we set DebugMode to True. We did not set the SendMail properly and the email cannot be sent. Because DebugMode is true, the reset code will be displayed in the debug window. Needless to say, we should not turn on DebugMode for this page for production environment.



The page appears. Enter a login name and click Create:



A message box appears:

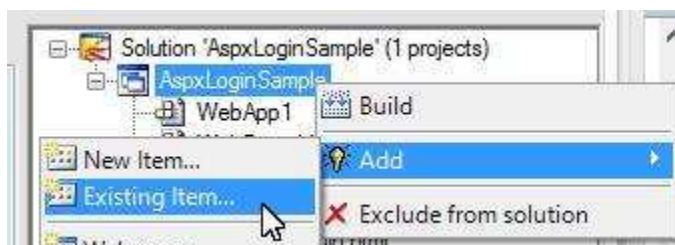


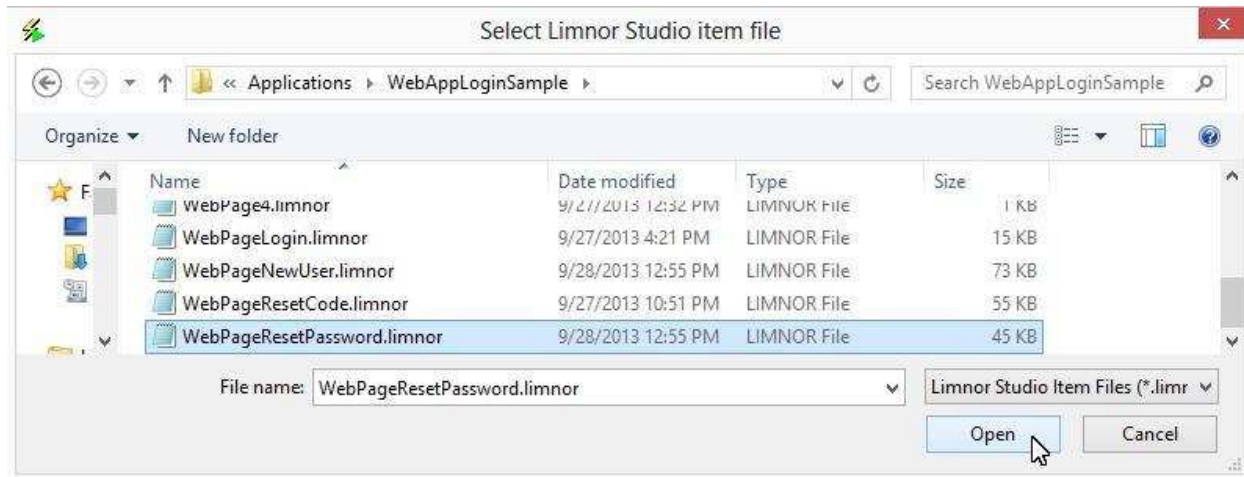
We did not set the mail component properly, and we will not receive an email for the reset code. Because we enabled debug mode, a debug window will contain the reset code:



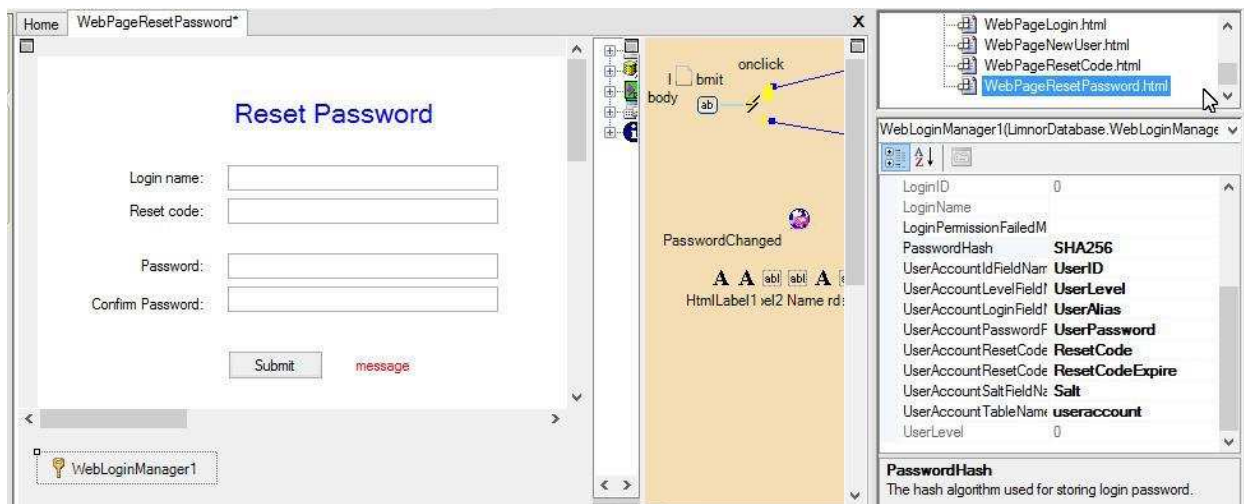
Reset Password – use reset code

We create a web page to allow a user to reset his/her password using a reset code. We already developed such a web page in a previous PHP web project sample. We may import that page to this project:

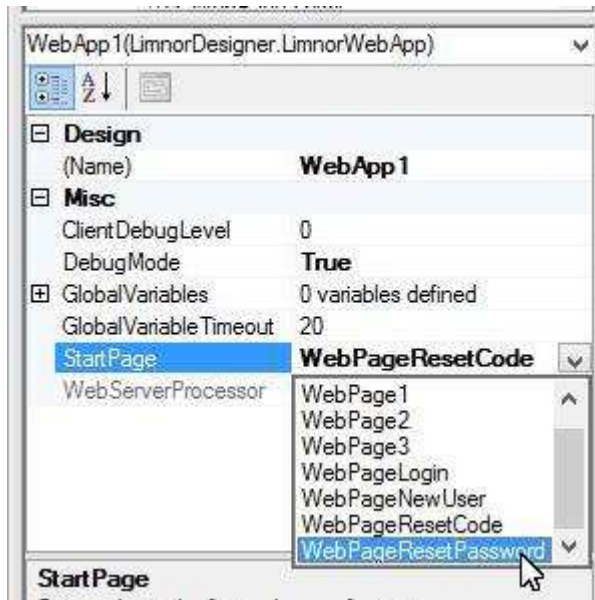




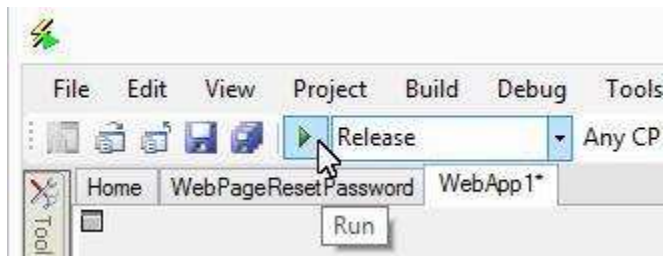
The page is imported to this project:



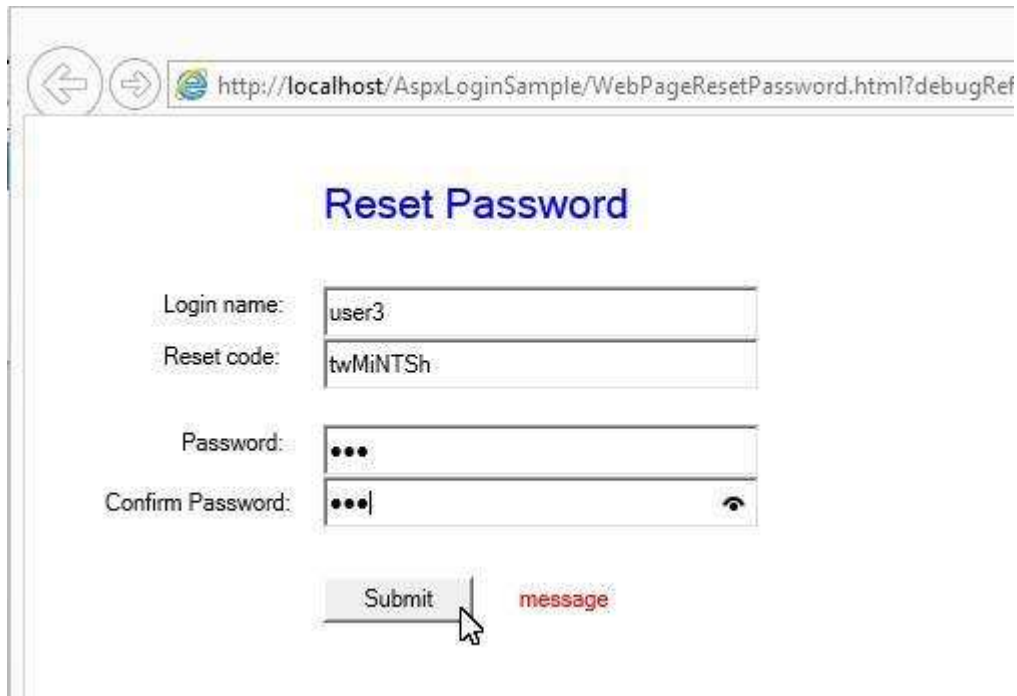
Set start page to the password reset page:



Run the project:



The password reset page appears. Enter reset code and other data; click Submit:



Reset Password

Login name: user3

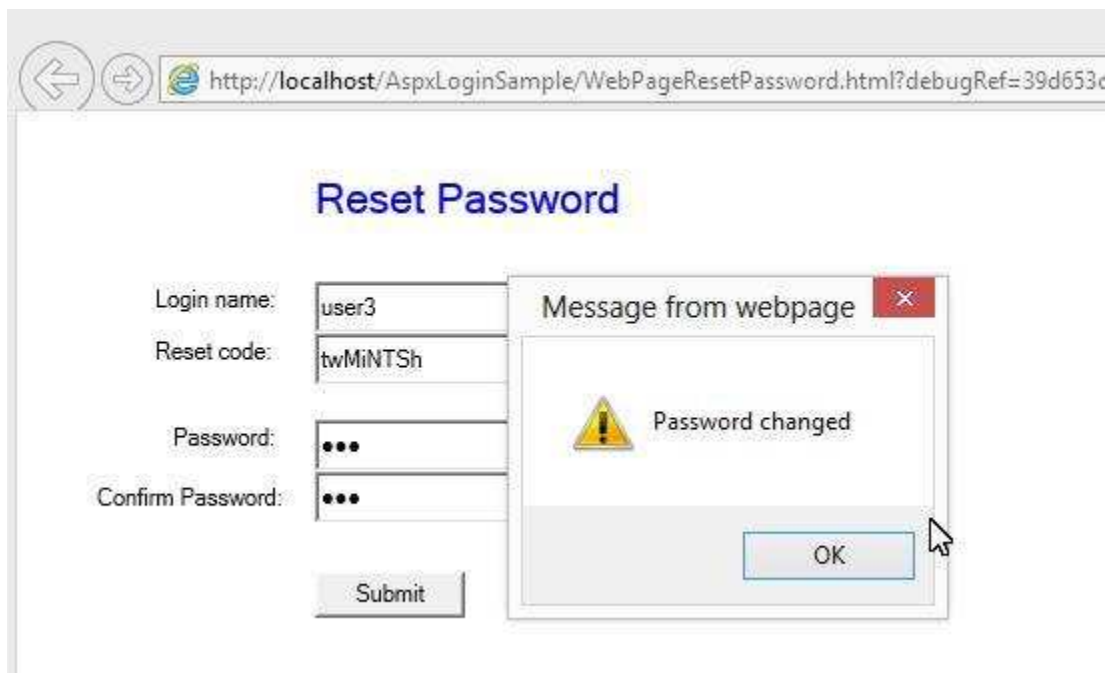
Reset code: twMiNTSh

Password: ...

Confirm Password: ...

Submit message

A success message appears:



Reset Password

Login name: user3

Reset code: twMiNTSh

Password: ...

Confirm Password: ...

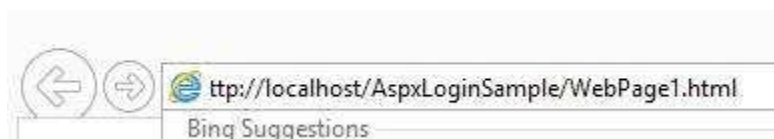
Submit

Message from webpage

! Password changed

OK

We may access a protected page to see if the new password works:



http://localhost/AspxLoginSample/WebPage1.html

Bing Suggestions

The login page appears. Let's log in using the new password:



Log in

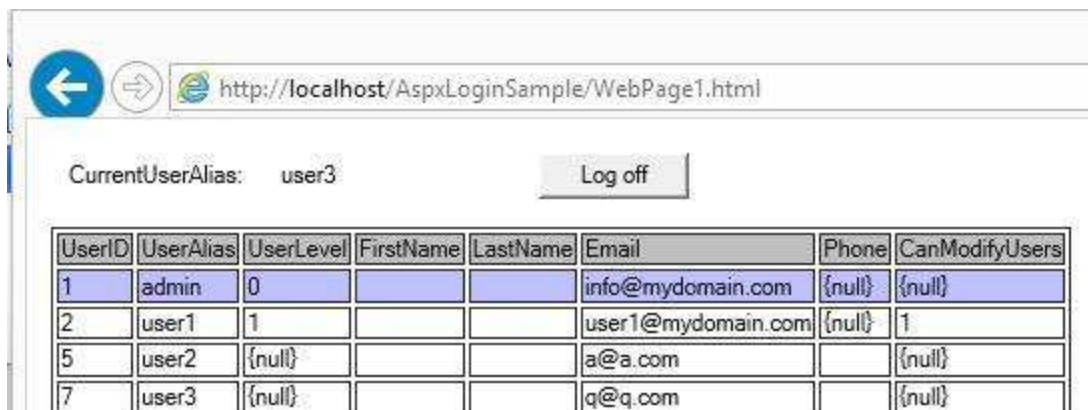
Login name: user3

Password: ...

Submit

message

The protected page appears. We thus know that the new password works.



CurrentUserAlias: user3 Log off

UserID	UserAlias	UserLevel	FirstName	LastName	Email	Phone	CanModifyUsers
1	admin	0			info@mydomain.com	{null}	{null}
2	user1	1			user1@mydomain.com	{null}	1
5	user2	{null}			a@a.com		{null}
7	user3	{null}			q@q.com		{null}

Feedback

Please send your feedback to support@limnor.com