

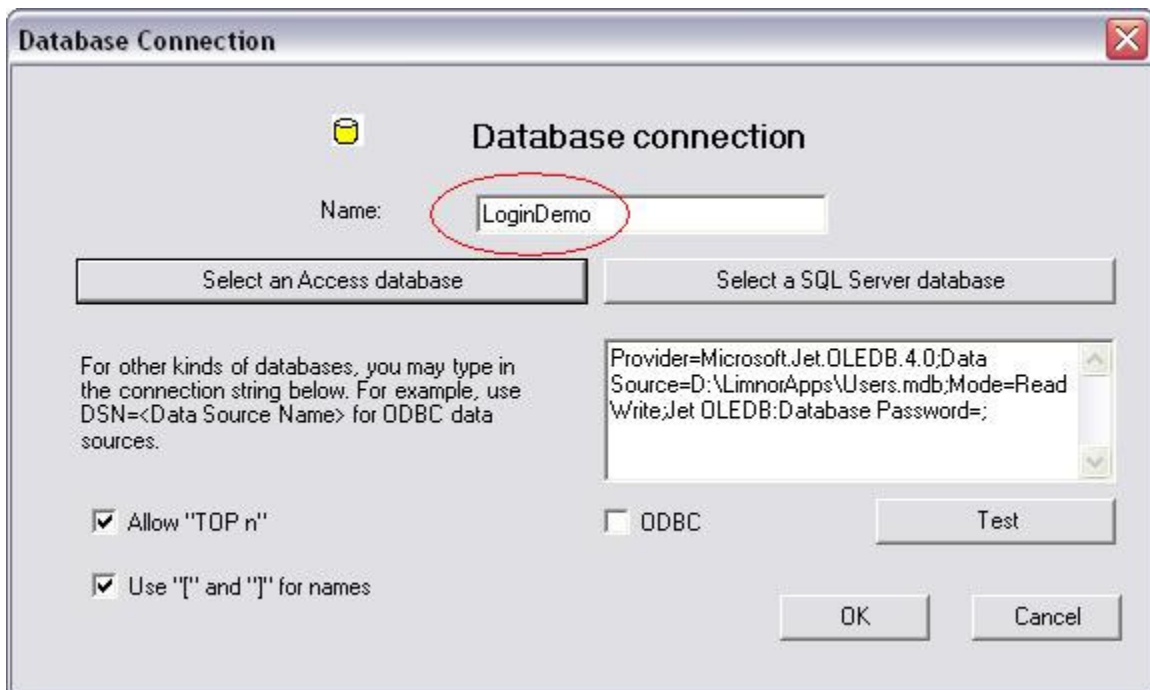
Application Access Control by Login

This sample application demonstrates application access control by user login. A Microsoft Access database is used to save user information. The first page has a Login button. Click the Login button, a Login dialogue appears. The user type in account name and password, click OK button. If the account name and password cannot be found in the database then a message box appears saying “Login failed”. If the account name and password are found in the database then a page appears. This page shows the user name. This page has 4 buttons; one button for log off; one button for shutdown the application; one button for editing the current user profile; one button for editing users.

Before this application exits a dialogue appears.

1 User Database

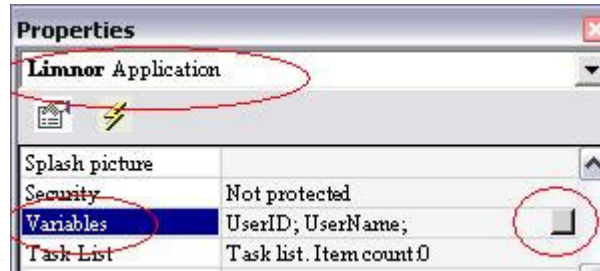
The user information is saved in an Access database users.mdb. In the application a database connection named LoginDemo is created pointing to this database.



The database password is HelpHand. If you want to change the database password, you may click the button “Select an Access database”.

2 Variables in Application

Two variables named UserID and UserName are created in Application performer for saving logged in user information so that all other pages may access these variables.



3 Home Page

The home page is the entry point of the application before a user logs in. There is a button for user login. Clicking this button will execute action PageLogin.ShowDialog which shows the login page:

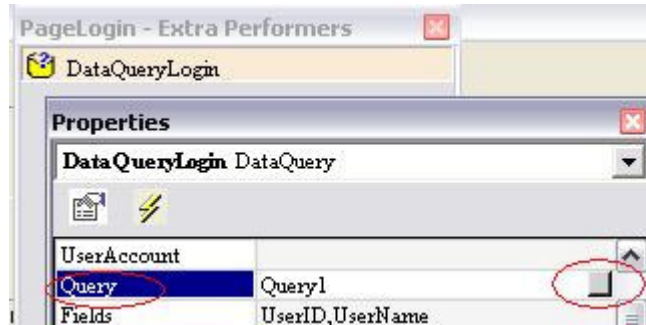


4 Login Page

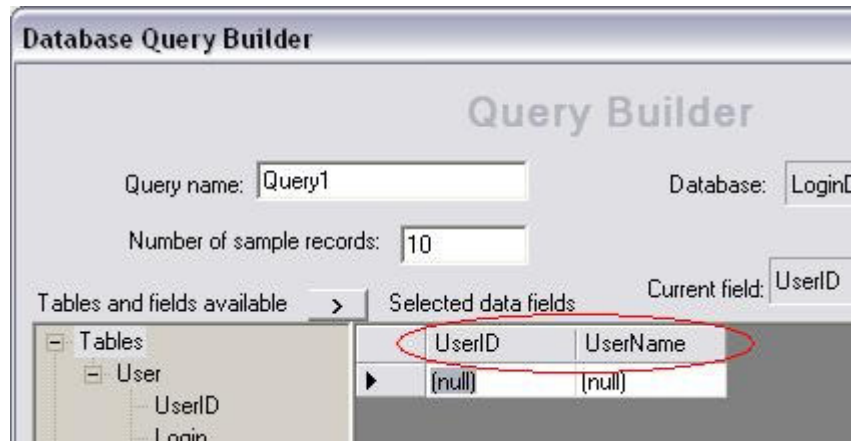
The login page use two text boxes to let the user type in account name and password. It uses a DataQuery to search the database for the account:



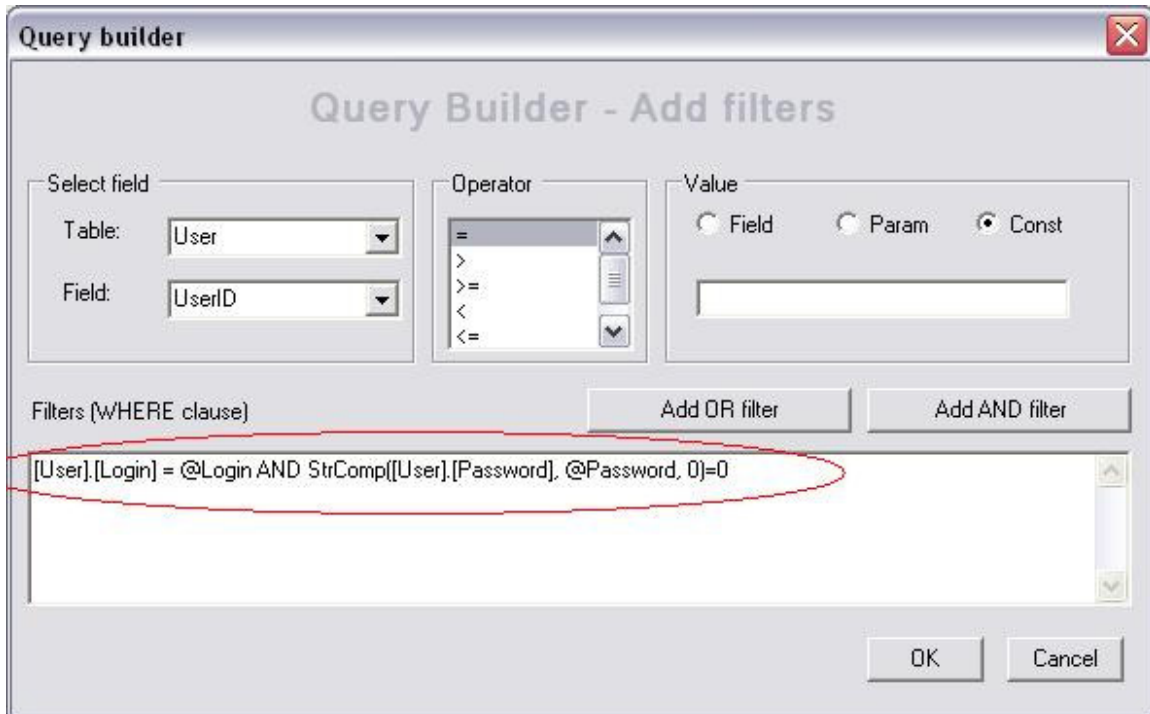
Set the Query property of the DataQuery:



The query returns UserID and UserName:



The filter of the query uses strComp function to make case-sensitive password comparison:



Query parameter @Login and @Password will be assigned the values typed in by the user. When the OK is clicked, action list login executes:



Action list Login includes following actions:

- SearchUser
- LoginSucceed
- Application.ShowMessageLoginFail

SearchUser is an action list, it includes following actions:

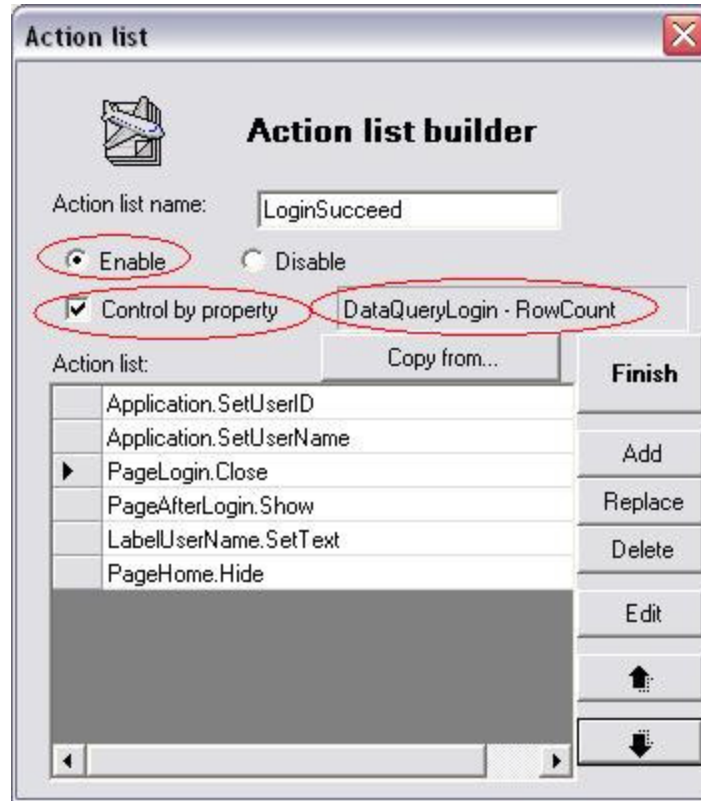
- DataQueryLogin.SetLogin
- DataQueryLogin.SetPassword
- DataQueryLogin.ReQuery

DataQueryLogin.SetLogin copies the Text property of the account name text box to the query parameter @Login.

DataQueryLogin.SetPassword copies the Text property of the password text box to the query parameter @Password.

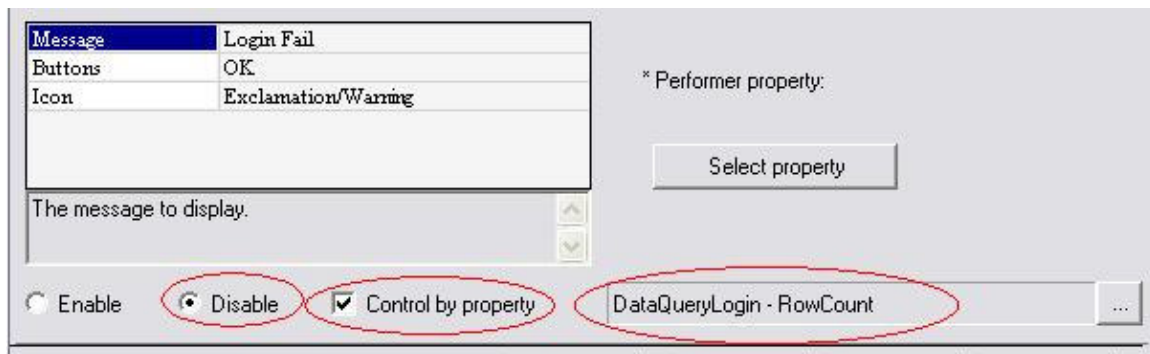
DataQueryLogin.ReQuery queries the database. If the user record is found then the RowCount property is greater than 0. The next two actions are controlled by RowCount property.

LoginSucceed is an action list, it includes following actions:



Note that PageLogin.Close must be executed first before PageAfterLogin.Show because PageLogin is displayed as a module form.

Action Application.ShowMessageLoginFail shows a message “Login failed”. It is disabled if log in succeeds (RowCount is not 0):



5 Page after Login

This page is displayed after login succeeds.

We put 4 buttons on this page.

“Edit Current User” calls action list ShowUserEditPage:



ShowUserEditPage includes following actions:

- DataTableUser.SetUserID – it copies UserID variable to query parameter @UserID
- DataTableUser.ReQuery – it queries the data and get the current user.
- PageUser.ShowDialog