

Advanced Developer

Kentico 9 Solution Book



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Kentico API

Add a Send email button to the MyPage.aspx file, and create an on-click handler for the button.

<asp:Button ID="btnSendEmail" runat="server" Text="Send email" OnClick="btnSendEmail_Click" />

Type the following source code to the **MyPage.aspx.cs** class:

```
using System;
using System.Data;
using CMS.DataEngine; // for DataQuery and its operators
using CMS.EmailEngine; // for email objects
using CMS.Helpers; // for validation helper
protected void btnSendEmail_Click(object sender, EventArgs e)
{
    // Gets John's email address from the database
  UserInfo userInfo = UserInfoProvider.GetUsers()
    .Columns("Email")
    .Where("UserName", QueryOperator.Equals, "John")
    .FirstObject;
  // Check if the userInfo is not null and therefore found
  if (userInfo != null)
  {
    string userEmail = userInfo.Email;
    if (ValidationHelper.IsEmail(userEmail))
    {
         // Create an EmailMessage instance and set its required properties
      EmailMessage newEmail = new EmailMessage()
             {
             From = "administrator@example.com",
          Recipients = userEmail,
          Subject = "Hello World",
          PlainTextBody = "Hello World",
         };
         // Send the email
       EmailSender.SendEmail(newEmail);
    }
  }
}
```



The system now adds the button to the ASPX page you created before. After clicking the **Send email** button, the system will send an email to John.

* *	Corporate Site 🖌	Dashboard
Create pag	e Create alias	Delete alias Create user Send email

Log in to the administration interface, open the **My app** application, and click the **Send email** button. Then, open the **Email queue** application to see your email in the queue.

* *	Corporate Site 🖌	Email queue					e	•
Site: (all)	•	Resend all failed	··· Delete all fail	ed	Cancel Re	efresh		
Email que	Je	The following list	st contains email	s that are w	vaiting to b	e sent or wh	ose sending fail	ed.
Sent email	ls	□ = <u>Actions</u> <u>Sub</u>	<u>bject</u> To		Priority 💌	Error message	Last send attempt	<u>Status</u>
Seria eritai		🗌 🖬 🔋 💿 Hel	ello World JohnDoe@	example.com	Normal			Waiting
							Items per page	25 💌



Event Handlers

Exercise 1

Type the following code to the MyHandler.cs class:

```
using System;
using CMS.Base;
using CMS.SiteProvider; // for current site context
using CMS.DataEngine; // for ObjectEventArgs needed in the event handler
using CMS.Membership; // user objects
using CMS.EmailEngine; // email objects
[MyHandlerEvents]
public partial class CMSModuleLoader
{
   private class MyHandlerEventsAttribute : CMSLoaderAttribute
   {
       public override void Init()
       {
          // Assign the handler to the Insert event for user objects
           UserInfo.TYPEINFO.Events.Insert.After += User_Insert_After;
       }
       private void User_Insert_After(object sender, ObjectEventArgs e)
       {
           // Get the new user object
           UserInfo user = (UserInfo)e.Object;
           // Generate the new password and assign it to the user
           // (Set the site name because of site password requirements)
           string password = UserInfoProvider.GenerateNewPassword(SiteContext.CurrentSiteName);
           UserInfoProvider.SetPassword(user, password);
           // Create and send an email with the password
           EmailMessage newEmail = new EmailMessage();
           newEmail.From = "administrator@example.com";
           newEmail.Recipients = user.Email;
           newEmail.Subject = "Your password";
           newEmail.PlainTextBody = "Your password is: " + password;
           EmailSender.SendEmail(newEmail);
       }
   }
}
```



Now, when a user is created, the system automatically generates their password and sends them an email with the password.

Log into the administration interface and use the **My app** application to create a user, or use the **Users** application to create a user manually. (If you use the **My app** application, don't forget to delete John in the **Users** application first.) Then, open the **Email queue** application to see the email.

* *	Corporate Site 🖌	Email queue	?	•
Site: (all)	•	Resend all failed Delete all failed Cancer Refresh		
Email queue				
Sent emails	□ = Actions Subject To Priority ▼ Error message Last send attem	<u>pt St</u>	atus	
Send email	iil	🔲 🗳 🔋 💿 Your password JohnDoe@example.com Normal	W	aiting
		Items per page	25	•

Exercise 2

Type the following code to the MyHandler.cs class:

```
using System;
using CMS.Base;
using CMS.DocumentEngine;
using CMS.SiteProvider;
using CMS.Membership;
using CMS.DataEngine;
using CMS.EmailEngine;
[MyHandlerEvents]
public partial class CMSModuleLoader
{
  private class MyHandlerEventsAttribute : CMSLoaderAttribute
  {
    public override void Init()
    {
      // Assign the handler to the Authenticate event
       SecurityEvents.Authenticate.Execute += Security_Authenticate_Execute;
    }
    private void Security_Authenticate_Execute(object sender,
AuthenticationEventArgs e)
    {
```

// Start only when the original authentication failed



```
if (e.User == null)
{
    // Find the username in the database
    var existingUser = UserInfoProvider.GetUserInfo(e.UserName);
    // Check if the user exists, continue only if not
    if (existingUser == null){
        // Create a new user;
        UserInfo newUser = new UserInfo()
        {
            UserInfo newUser = e.UserName,
            Enabled = true
        };
    }
}
```

// set password for the user (we need to use external method as Password hashed and only a read-only property)

UserInfoProvider.SetPassword(newUser.UserName, e.Password, false); // we don't want to save user

```
// Assign newly created user to e.User (user will be logged and created in DB as well)
    e.User = newUser;
    }
}
```

When a user tries to log in and they don't have a user account, the system automatically creates a new user account for them with the typed password and logs them into the new account.

Go to the live site and log in with a non-existing user (for example, Bobby). The system will log Bobby in, even though the user doesn't exist. Then, log into the administration interface as Administrator and go to the **Users** application where you can see the new user.



} }



Kentico

- 1. On the **Configuration** → **Macro rules** tab in the **Contact Management** application, click **New macro rule**.
- 2. Enter the following properties:
 - **Display name:** Contact's phone number starts with a specific phone code
 - User text: Contact's phone number starts with the {startString} phone code
 - Condition:
 - Contact.ContactMobilePhone.StartsWith("{startString}")
 || Contact.ContactHomePhone.StartsWith("{startString}")
 || Contact.ContactBusinessPhone.StartsWith("{startString}")
- 3. **Save** the rule.

General	
Display name:*	Contact's phone starts with a specific phone $cod\varepsilon$
Name:*	(automatic)
Description:	
	.::
Enabled:	
Rule data	
Liser text*	Contact's phone number starts with the (startString) phone code
USEI TEAL	Contact's phone number starts with the (startstring) phone code
Condition:*	Contact.ContactMobilePhone.ToUpper().St
	< >
Required data:	
Requires context:	

4. Switch to the **Parameters** tab.



5. Change the **Field caption** to *enter code* and click **Save**.

General			
Field name:*	startstring		
Data type:	Text		
Size:	1000		
Required:			
Default value:	,		
Translate field:			
GUID:	07cc9460-c4ea-4bf4-a2bb-badbe33da840		
Display field in the editing form			
Field appearance			
Field caption:	enter code		
Field description:	•		
Explanation text:			
Form control:	Text box		

You can now add macro rules to personas based on contacts' phone codes.

Log into the administration interface, and in the **Contacts** tab of the **Contact Management** application, create a **New contact** with a specific phone number. Then, in the **Personas** application, create a **New persona**. After saving the persona, switch to the **Rules** tab and **create a rule** with a macro rule type and enter the same phone code as for the user before. Select your macro with phone codes and **save** it. Then, switch back to the **Rules** tab and click **Recalculate** to recalculate the contacts. Switch to the **Contacts** tab to see the contact assigned to the persona.

Thank you for participating in our training!

We value the time you have spent with us and want to hear your opinions and thoughts!

We'd greatly appreciate it if you could share your opinion with us by submitting this feedback form:

http://www.kentico.com/Training/Training-Feedback