



# MelodyCircle Reference

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## MelodyCircle Reference

### Namespaces

[MelodyCircle.Areas.Identity.Pages.Account<sup>14</sup>](#), [MelodyCircle.Areas.Identity.Pages.Account.Manage<sup>73</sup>](#),  
[MelodyCircle.Controllers<sup>142</sup>](#), [MelodyCircle.Data<sup>191</sup>](#), [MelodyCircle.ExtensionMethods<sup>199</sup>](#),  
[MelodyCircle.Migrations<sup>201</sup>](#), [MelodyCircle.Models<sup>205</sup>](#), [MelodyCircle.Services<sup>240</sup>](#),  
[MelodyCircle.ViewComponents<sup>247</sup>](#), [MelodyCircle.ViewModels<sup>250</sup>](#)

## MelodyCircle.Areas.Identity.Pages.Account Namespace

### Classes

[ConfirmEmailModel](#)<sub>14</sub>, [ExternalLoginModel](#)<sub>17</sub>, [ForgotPasswordConfirmation](#)<sub>30</sub>,  
[ForgotPasswordModel](#)<sub>31</sub>, [LoginModel](#)<sub>36</sub>, [LogoutModel](#)<sub>44</sub>, [RegisterConfirmationModel](#)<sub>47</sub>,  
[RegisterModel](#)<sub>51</sub>, [ResetPasswordConfirmationModel](#)<sub>63</sub>, [ResetPasswordModel](#)<sub>64</sub>

### ConfirmEmailModel Class

**VB**

```
Public Class ConfirmEmailModel  
    Inherits PageModel
```

**C#**

```
public class ConfirmEmailModel : PageModel
```

**[C++]**

```
public ref class ConfirmEmailModel : public PageModel^
```

**[JScript]**

```
public class ConfirmEmailModel  
    extends PageModel
```

### Requirements

**Namespace:** [MelodyCircle.Areas.Identity.Pages.Account](#)<sub>14</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

### Constructors

[ConfirmEmailModel](#)<sub>14</sub>

### Properties

[StatusMessage](#)<sub>15</sub>

### Methods

[OnGetAsync](#)<sub>16</sub>

### ConfirmEmailModel Constructor

**VB**

```
Public Sub New( _  
    ByVal userManager As UserManager(Of User) _  
)
```

**C#**

```
public ConfirmEmailModel(  
    UserManager<User> userManager  
)
```

```
[C++]  
public:  
ConfirmEmailModel(  
    UserManager<User^>^ userManager  
)
```

**[JScript]**

JScript does not support generic types and methods.

## Parameters

*userManager*

## See Also

Applies to: [ConfirmEmailModel](#)<sub>14</sub>

## ConfirmEmailModel.StatusMessage Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
<TempData()> _  
Public Property StatusMessage() As String
```

**C#**

```
[TempData()]  
public string StatusMessage {get; set;}
```

```
[C++]  
[TempData()]  
public:
```

```
property String^ StatusMessage {
    String^ get( );
    void set(
        String^ value
    );
}
```

```
[JScript]
public
    TempData()
function get StatusMessage() : String;
public
    TempData()
function set StatusMessage(value : String);
```

## See Also

Applies to: [ConfirmEmailModel](#)<sub>14</sub>

## ConfirmEmailModel.OnGetAsync Method

**VB**

```
Public Function OnGetAsync( _
    ByVal userId As String, _
    ByVal code As String _
) As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> OnGetAsync(
    string userId,
    string code
)
```

```
[C++]
public:
Task<IActionResult>^ OnGetAsync(
    String^ userId,
    String^ code
)
```

```
[JScript]
JScript does not support generic types and methods.
```

## Parameters



*userId*

*code*

## See Also

Applies to: [ConfirmEmailModel](#)<sub>14</sub>

## ExternalLoginModel Class

**VB**

```
<AllowAnonymous()> _  
Public Class ExternalLoginModel  
    Inherits PageModel
```

**C#**

```
[AllowAnonymous()]  
public class ExternalLoginModel : PageModel
```

**[C++]**

```
[AllowAnonymous()]  
public ref class ExternalLoginModel : public PageModel^
```

**[JScript]**

```
public  
    AllowAnonymous()  
class ExternalLoginModel  
    extends PageModel
```

## Requirements

**Namespace:** [MelodyCircle.Areas.Identity.Pages.Account](#)<sub>14</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Constructors

[ExternalLoginModel](#)<sub>18</sub>

## Properties

[ErrorMessage](#)<sub>19</sub>, [Input](#)<sub>20</sub>, [ProviderDisplayName](#)<sub>20</sub>, [ReturnUrl](#)<sub>21</sub>

## Methods

[OnGet](#)<sub>22</sub>, [OnGetCallbackAsync](#)<sub>22</sub>, [OnPost](#)<sub>23</sub>, [OnPostConfirmationAsync](#)<sub>24</sub>

## Classes

InputModel<sup>24</sup>

## ExternalLoginModel Constructor

VB

```
Public Sub New( _
    ByVal signInManager As SignInManager(Of User), _
    ByVal userManager As UserManager(Of User), _
    ByVal userStore As IUserStore(Of User), _
    ByVal logger As ILogger(Of ExternalLoginModel), _
    ByVal emailSender As IEmailSender, _
    ByVal roleManager As RoleManager(Of IdentityRole) _
)
```

C#

```
public ExternalLoginModel(
    SignInManager<User> signInManager,
    UserManager<User> userManager,
    IUserStore<User> userStore,
    ILogger<ExternalLoginModel> logger,
    IEmailSender emailSender,
    RoleManager<IdentityRole> roleManager
)
```

[C++]

```
public:
ExternalLoginModel(
    SignInManager<User^>^ signInManager,
    UserManager<User^>^ userManager,
    IUserStore<User^>^ userStore,
    ILogger<ExternalLoginModel^>^ logger,
    IEmailSender^ emailSender,
    RoleManager<IdentityRole^>^ roleManager
)
```

[JScript]

JScript does not support generic types and methods.

### Parameters

*signInManager*

*userManager*

*userStore*

*logger*

*emailSender*

*roleManager*

## See Also

Applies to: [ExternalLoginModel](#)<sub>17</sub>

## ExternalLoginModel.ErrorMessage Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
<TempData()> _  
Public Property ErrorMessage() As String
```

**C#**

```
[TempData()]  
public string ErrorMessage {get; set;}
```

```
[C++]  
[TempData()]  
public:  
property String^ ErrorMessage {  
    String^ get( );  
    void set(  
        String^ value  
    );  
}
```

```
[JScript]  
public  
    TempData()  
function get ErrorMessage() : String;  
public  
    TempData()  
function set ErrorMessage(value : String);
```

## See Also

Applies to: [ExternalLoginModel](#)<sub>17</sub>

## ExternalLoginModel.Input Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
<BindProperty()> _  
Public Property Input() As InputModel
```

**C#**

```
[BindProperty()]  
public InputModel Input {get; set;}
```

```
[C++]  
[BindProperty()]  
public:  
property InputModel^ Input {  
    InputModel^ get( );  
    void set(  
        InputModel^ value  
    );  
}
```

```
[JScript]  
public  
    BindProperty()  
function get Input() : InputModel;  
public  
    BindProperty()  
function set Input(value : InputModel);
```

### See Also

Applies to: [ExternalLoginModel](#)<sub>17</sub>

## ExternalLoginModel.ProviderDisplayName Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Property ProviderDisplayName() As String
```

**C#**

```
public string ProviderDisplayName {get; set;}
```

```
[C++]
public:
property String^ ProviderDisplayName {
    String^ get( );
    void set(
        String^ value
    );
}
```

```
[JScript]
public function get ProviderDisplayName() : String;
public function set ProviderDisplayName(value : String);
```

## See Also

Applies to: [ExternalLoginModel](#)<sub>17</sub>

## ExternalLoginModel.ReturnUrl Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Property ReturnUrl() As String
```

**C#**

```
public string ReturnUrl {get; set;}
```

```
[C++]
public:
property String^ ReturnUrl {
    String^ get( );
    void set(
        String^ value
    );
}
```

```
[JScript]
public function get ReturnUrl() : String;
public function set ReturnUrl(value : String);
```

## See Also

Applies to: [ExternalLoginModel](#)<sub>17</sub>

## ExternalLoginModel.OnGet Method

**VB**

```
Public Function OnGet() As IActionResult
```

**C#**

```
public IActionResult OnGet()
```

```
[C++]  
public:  
IActionResult^ OnGet()
```

```
[JScript]  
public function OnGet() : IActionResult;
```

## See Also

Applies to: [ExternalLoginModel](#)<sub>17</sub>

## ExternalLoginModel.OnGetCallbackAsync Method

**VB**

```
Public Function OnGetCallbackAsync( _  
    Optional ByVal returnUrl As String = null, _  
    Optional ByVal remoteError As String = null _  
) As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> OnGetCallbackAsync(  
    string returnUrl = null,  
    string remoteError = null  
)
```

```
[C++]  
public:  
Task<IActionResult>^ OnGetCallbackAsync(  
    String^ returnUrl,
```

```
String^ remoteError
)
```

**[JScript]**  
JScript does not support generic types and methods.

## Parameters

*returnUrl*

*remoteError*

## See Also

Applies to: [ExternalLoginModel](#)<sub>17</sub>

## ExternalLoginModel.OnPost Method

**VB**

```
Public Function OnPost( _
    ByVal provider As String, _
    Optional ByVal returnUrl As String = null _
) As IActionResult
```

**C#**

```
public IActionResult OnPost(
    string provider,
    string returnUrl = null
)
```

```
[C++]
public:
IActionResult^ OnPost(
    String^ provider,
    String^ returnUrl
)
```

```
[JScript]
public function OnPost(
    provider : String,
    returnUrl : String
) : IActionResult;
```

## Parameters

*provider*

*returnUrl*

## See Also

Applies to: [ExternalLoginModel](#)<sub>17</sub>

## ExternalLoginModel.OnPostConfirmationAsync Method

**VB**

```
Public Function OnPostConfirmationAsync( _  
    Optional ByVal returnUrl As String = null _  
) As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> OnPostConfirmationAsync(  
    string returnUrl = null  
)
```

```
[C++]  
public:  
Task<IActionResult>^ OnPostConfirmationAsync(  
    String^ returnUrl  
)
```

**[JScript]**

JScript does not support generic types and methods.

## Parameters

*returnUrl*

## See Also

Applies to: [ExternalLoginModel](#)<sub>17</sub>

## InputModel Class

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**



```
Public Class InputModel
```

**C#**

```
public class InputModel
```

**[C++]**

```
public ref class InputModel
```

**[JScript]**

```
public class InputModel
```

## Requirements

**Namespace:** [MelodyCircle.Areas.Identity.Pages.Account](#)<sub>14</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Properties

[BirthDate](#)<sub>25</sub>, [Email](#)<sub>26</sub>, [Name](#)<sub>27</sub>, [Password](#)<sub>28</sub>, [UserName](#)<sub>29</sub>

## See Also

Applies to: [ExternalLoginModel](#)<sub>17</sub>

## InputModel.BirthDate Property

**VB**

```
<PersonalData()> _  
<Required()> _  
<DataType(DataType.Date)> _  
<Display(Name = "Data Nascimento")> _  
Public Property BirthDate() As DateOnly
```

**C#**

```
[PersonalData()]  
[Required()]  
[DataType(DataType.Date)]  
[Display(Name = "Data Nascimento")]  
public DateOnly BirthDate {get; set;}
```

**[C++]**

```
[PersonalData()]
```

```
[Required()]
[DataType(DataType.Date)]
[Display(Name = "Data Nascimento")]
public:
property DateOnly BirthDate {
    DateOnly get( );
    void set(
        DateOnly value
    );
}
```

```
[JScript]
public
    PersonalData()
    Required()
    DataType(DataType.Date)
    Display(Name = "Data Nascimento")
function get BirthDate() : DateOnly;
public
    PersonalData()
    Required()
    DataType(DataType.Date)
    Display(Name = "Data Nascimento")
function set BirthDate(value : DateOnly);
```

## See Also

Applies to: [InputModel](#)<sub>24</sub>

## InputModel.Email Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

### VB

```
<Required()> _
<UniqueEmail()> _
<EmailAddress()> _
Public Property Email() As String
```

### C#

```
[Required()]
[UniqueEmail()]
[EmailAddress()]
public string Email {get; set;}
```

### [C++]

```

    [Required()]
    [UniqueEmail()]
    [EmailAddress()]
    public:
    property String^ Email {
        String^ get( );
        void set(
            String^ value
        );
    }

```

```

    [JScript]
    public
        Required()
        UniqueEmail()
        EmailAddress()
    function get Email() : String;
    public
        Required()
        UniqueEmail()
        EmailAddress()
    function set Email(value : String);

```

## See Also

Applies to: [InputModel](#)<sub>24</sub>

## InputModel.Name Property

### VB

```

<Required()> _
<DataType(DataType.Text)> _
<Display(Name = "Nome")> _
Public Property Name() As String

```

### C#

```

[Required()]
[DataType(DataType.Text)]
[Display(Name = "Nome")]
public string Name {get; set;}

```

```

[C++]
[Required()]
[DataType(DataType.Text)]
[Display(Name = "Nome")]
public:
property String^ Name {

```

```
String^ get( );
void set(
    String^ value
);
}
```

```
[JScript]
public
    Required()
    DataType(DataType.Text)
    Display(Name = "Nome")
function get Name() : String;
public
    Required()
    DataType(DataType.Text)
    Display(Name = "Nome")
function set Name(value : String);
```

## See Also

Applies to: [InputModel](#)<sub>24</sub>

## InputModel.Password Property

### VB

```
<Required(> _
<StringLength(20, ErrorMessage = "The {0} must be at least {2} and at max {1}
characters long.", MinimumLength = 6)> _
<DataType(DataType.Password)> _
<Display(Name = "Password")> _
Public Property Password() As String
```

### C#

```
[Required()]
[StringLength(20, ErrorMessage = "The {0} must be at least {2} and at max {1}
characters long.", MinimumLength = 6)]
[DataType(DataType.Password)]
[Display(Name = "Password")]
public string Password {get; set;}
```

```
[C++]
[Required()]
[StringLength(20, ErrorMessage = "The {0} must be at least {2} and at max {1}
characters long.", MinimumLength = 6)]
[DataType(DataType.Password)]
[Display(Name = "Password")]
public:
```

```
property String^ Password {
    String^ get( );
    void set(
        String^ value
    );
}
```

```
[JScript]
public
    Required()
    StringLength(20, ErrorMessage = "The {0} must be at least {2} and at max {1}
characters long.", MinimumLength = 6)
    DataType(DataType.Password)
    Display(Name = "Password")
function get Password() : String;
public
    Required()
    StringLength(20, ErrorMessage = "The {0} must be at least {2} and at max {1}
characters long.", MinimumLength = 6)
    DataType(DataType.Password)
    Display(Name = "Password")
function set Password(value : String);
```

## See Also

Applies to: [InputModel](#)<sub>24</sub>

## InputModel.UserName Property

### VB

```
<Required()> _
<Display(Name = "Username")> _
Public Property UserName() As String
```

### C#

```
[Required()]
[Display(Name = "Username")]
public string UserName {get; set;}
```

### [C++]

```
[Required()]
[Display(Name = "Username")]
public:
property String^ UserName {
    String^ get( );
    void set(
        String^ value
```

```
);
}
```

```
[JScript]
public
    Required()
    Display(Name = "Username")
function get UserName() : String;
public
    Required()
    Display(Name = "Username")
function set UserName(value : String);
```

## See Also

Applies to: [InputModel](#)<sub>24</sub>

## ForgotPasswordConfirmation Class

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
<AllowAnonymous()> _
Public Class ForgotPasswordConfirmation
    Inherits PageModel
```

**C#**

```
[AllowAnonymous()]
public class ForgotPasswordConfirmation : PageModel
```

```
[C++]
[AllowAnonymous()]
public ref class ForgotPasswordConfirmation : public PageModel^
```

```
[JScript]
public
    AllowAnonymous()
class ForgotPasswordConfirmation
    extends PageModel
```

## Requirements

Namespace: [MelodyCircle.Areas.Identity.Pages.Account](#)<sub>14</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Methods

[OnGet](#)<sub>31</sub>

### ForgotPasswordConfirmation.OnGet Method

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Sub OnGet()
```

**C#**

```
public void OnGet()
```

```
[C++]  
public:  
void OnGet()
```

```
[JScript]  
public function OnGet();
```

## See Also

Applies to: [ForgotPasswordConfirmation](#)<sub>30</sub>

### ForgotPasswordModel Class

**VB**

```
Public Class ForgotPasswordModel  
    Inherits PageModel
```

**C#**

```
public class ForgotPasswordModel : PageModel
```

```
[C++]  
public ref class ForgotPasswordModel : public PageModel^
```

```
[JScript]
public class ForgotPasswordModel
    extends PageModel
```

## Requirements

**Namespace:** [MelodyCircle.Areas.Identity.Pages.Account](#)<sub>14</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Constructors

[ForgotPasswordModel](#)<sub>32</sub>

## Properties

[Input](#)<sub>33</sub>

## Methods

[OnPostAsync](#)<sub>34</sub>

## Classes

[InputModel](#)<sub>34</sub>

## ForgotPasswordModel Constructor

**VB**

```
Public Sub New( _
    ByVal userManager As UserManager\(Of User\), _
    ByVal emailSender As IEmailSender _
)
```

**C#**

```
public ForgotPasswordModel(
    UserManager<User> userManager,
    IEmailSender emailSender
)
```

```
[C++]
public:
    ForgotPasswordModel(
        UserManager<User^> userManager,
        IEmailSender^ emailSender
    )
```

```
[JScript]
JScript does not support generic types and methods.
```



## Parameters

*userManager*

*emailSender*

## See Also

Applies to: [ForgotPasswordModel](#)<sub>31</sub>

## ForgotPasswordModel.Input Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
<BindProperty()> _  
Public Property Input() As InputModel
```

**C#**

```
[BindProperty()]  
public InputModel Input {get; set;}
```

```
[C++]  
[BindProperty()]  
public:  
property InputModel^ Input {  
    InputModel^ get( );  
    void set(  
        InputModel^ value  
    );  
}
```

```
[JScript]  
public  
    BindProperty()  
function get Input() : InputModel;  
public  
    BindProperty()  
function set Input(value : InputModel);
```

## See Also

Applies to: [ForgotPasswordModel](#)<sub>31</sub>

## ForgotPasswordModel.OnPostAsync Method

**VB**

```
Public Function OnPostAsync() As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> OnPostAsync()
```

**[C++]**

```
public:  
Task<IActionResult>^ OnPostAsync()
```

**[JScript]**

JScript does not support generic types and methods.

### See Also

Applies to: [ForgotPasswordModel](#)<sub>31</sub>

## InputModel Class

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Class InputModel
```

**C#**

```
public class InputModel
```

**[C++]**

```
public ref class InputModel
```

**[JScript]**

```
public class InputModel
```

### Requirements

Namespace: [MelodyCircle.Areas.Identity.Pages.Account](#)<sub>14</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Properties

[Email](#)<sub>35</sub>

## See Also

Applies to: [ForgotPasswordModel](#)<sub>31</sub>

## InputModel.Email Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

### VB

```
<Required()> _  
<EmailAddress()> _  
Public Property Email() As String
```

### C#

```
[Required()]  
[EmailAddress()]  
public string Email {get; set;}
```

```
[C++]  
[Required()]  
[EmailAddress()]  
public:  
property String^ Email {  
    String^ get( );  
    void set(  
        String^ value  
    );  
}
```

```
[JScript]  
public  
    Required()  
    EmailAddress()  
function get Email() : String;  
public  
    Required()  
    EmailAddress()  
function set Email(value : String);
```

## See Also

Applies to: [InputModel](#)<sub>34</sub>

## LoginModel Class

**VB**

```
Public Class LoginModel
    Inherits PageModel
```

**C#**

```
public class LoginModel : PageModel
```

**[C++]**

```
public ref class LoginModel : public PageModel^
```

**[JScript]**

```
public class LoginModel
    extends PageModel
```

## Requirements

**Namespace:** [MelodyCircle.Areas.Identity.Pages.Account](#)<sub>14</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Constructors

[LoginModel](#)<sub>36</sub>

## Properties

[ErrorMessage](#)<sub>37</sub>, [ExternalLogins](#)<sub>38</sub>, [Input](#)<sub>39</sub>, [ReturnUrl](#)<sub>39</sub>

## Methods

[OnGetAsync](#)<sub>40</sub>, [OnPostAsync](#)<sub>41</sub>

## Classes

[InputModel](#)<sub>41</sub>

## LoginModel Constructor

**VB**

```
Public Sub New( _
    ByVal signInManager As SignInManager(Of User), _
    ByVal logger As ILogger(Of LoginModel) _
)
```

**C#**

```
public LoginModel(  
    SignInManager<User> signInManager,  
    ILogger<LoginModel> logger  
)
```

```
[C++]  
public:  
LoginModel(  
    SignInManager<User^>^ signInManager,  
    ILogger<LoginModel^>^ logger  
)
```

```
[JScript]  
JScript does not support generic types and methods.
```

## Parameters

*signInManager*

*logger*

## See Also

Applies to: [LoginModel](#)<sub>36</sub>

## LoginModel.ErrorMessage Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
<TempData()> _  
Public Property ErrorMessage() As String
```

**C#**

```
[TempData()]  
public string ErrorMessage {get; set;}
```

```
[C++]  
[TempData()]  
public:  
property String^ ErrorMessage {  
    String^ get( );  
    void set(
```

```
String^ value
);
}
```

```
[JScript]
public
TempData()
function get ErrorMessage() : String;
public
TempData()
function set ErrorMessage(value : String);
```

## See Also

Applies to: [LoginModel](#)<sub>36</sub>

## LoginModel.ExternalLogins Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Property ExternalLogins() As IList(Of AuthenticationScheme)
```

**C#**

```
public IList<AuthenticationScheme> ExternalLogins {get; set;}
```

```
[C++]
public:
property IList<AuthenticationScheme^> ExternalLogins {
    IList<AuthenticationScheme^> get( );
    void set(
        IList<AuthenticationScheme^> value
    );
}
```

```
[JScript]
JScript does not support generic types and methods.
```

## See Also

Applies to: [LoginModel](#)<sub>36</sub>

## LoginModel.Input Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
<BindProperty()> _  
Public Property Input() As InputModel
```

**C#**

```
[BindProperty()]  
public InputModel Input {get; set;}
```

```
[C++]  
[BindProperty()]  
public:  
property InputModel^ Input {  
    InputModel^ get( );  
    void set(  
        InputModel^ value  
    );  
}
```

```
[JScript]  
public  
    BindProperty()  
function get Input() : InputModel;  
public  
    BindProperty()  
function set Input(value : InputModel);
```

### See Also

Applies to: [LoginModel](#)<sub>36</sub>

## LoginModel.ReturnUrl Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Property ReturnUrl() As String
```

**C#**

```
public string returnUrl {get; set;}
```

```
[C++]
public:
property String^ returnUrl {
    String^ get( );
    void set(
        String^ value
    );
}
```

```
[JScript]
public function get returnUrl() : String;
public function set returnUrl(value : String);
```

## See Also

Applies to: [LoginModel](#)<sub>36</sub>

## LoginModel.OnGetAsync Method

**VB**

```
Public Function OnGetAsync( _
    Optional ByVal returnUrl As String = null _
) As Task
```

**C#**

```
public Task OnGetAsync(
    string returnUrl = null
)
```

```
[C++]
public:
Task^ OnGetAsync(
    String^ returnUrl
)
```

```
[JScript]
public function OnGetAsync(
    returnUrl : String
) : Task;
```



## Parameters

*returnUrl*

## See Also

Applies to: [LoginModel](#)<sub>36</sub>

## LoginModel.OnPostAsync Method

**VB**

```
Public Function OnPostAsync( _  
    Optional ByVal returnUrl As String = null _  
) As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> OnPostAsync(  
    string returnUrl = null  
)
```

```
[C++]  
public:  
Task<IActionResult>^ OnPostAsync(  
    String^ returnUrl  
)
```

**[JScript]**

JScript does not support generic types and methods.

## Parameters

*returnUrl*

## See Also

Applies to: [LoginModel](#)<sub>36</sub>

## InputModel Class

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Class InputModel
```

**C#**

```
public class InputModel
```

**[C++]**

```
public ref class InputModel
```

**[JScript]**

```
public class InputModel
```

## Requirements

**Namespace:** [MelodyCircle.Areas.Identity.Pages.Account](#)<sub>14</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Properties

[Email](#)<sub>42</sub>, [Password](#)<sub>43</sub>, [RememberMe](#)<sub>44</sub>

## See Also

Applies to: [LoginModel](#)<sub>36</sub>

## InputModel.Email Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
<Required()> _  
Public Property Email() As String
```

**C#**

```
[Required()]  
public string Email {get; set;}
```

```
[C++]  
[Required()]  
public:  
property String^ Email {  
    String^ get( );  
    void set(  
        String^ value  
    );  
}
```

```
[JScript]
public
    Required()
function get Email() : String;
public
    Required()
function set Email(value : String);
```

## See Also

Applies to: [InputModel](#)<sub>41</sub>

## InputModel.Password Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
<Required()> _
<DataType(DataType.Password)> _
Public Property Password() As String
```

**C#**

```
[Required()]
[DataType(DataType.Password)]
public string Password {get; set;}
```

```
[C++]
[Required()]
[DataType(DataType.Password)]
public:
property String^ Password {
    String^ get( );
    void set(
        String^ value
    );
}
```

```
[JScript]
public
    Required()
    DataType(DataType.Password)
function get Password() : String;
public
    Required()
    DataType(DataType.Password)
function set Password(value : String);
```

## See Also

Applies to: [InputModel](#)<sub>41</sub>

## InputModel.RememberMe Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
<Display(Name = "Manter autenticado?")> _  
Public Property RememberMe() As Boolean
```

**C#**

```
[Display(Name = "Manter autenticado?")]  
public bool RememberMe {get; set;}
```

```
[C++]  
[Display(Name = "Manter autenticado?")]  
public:  
property bool RememberMe {  
    bool get( );  
    void set(  
        bool value  
    );  
}
```

```
[JScript]  
public  
    Display(Name = "Manter autenticado?")  
function get RememberMe() : boolean;  
public  
    Display(Name = "Manter autenticado?")  
function set RememberMe(value : boolean);
```

## See Also

Applies to: [InputModel](#)<sub>41</sub>

## LogoutModel Class

**VB**

```
Public Class LogoutModel  
    Inherits PageModel
```

**C#**

```
public class LogoutModel : PageModel
```

**[C++]**

```
public ref class LogoutModel : public PageModel^
```

**[JScript]**

```
public class LogoutModel  
    extends PageModel
```

## Requirements

**Namespace:** [MelodyCircle.Areas.Identity.Pages.Account](#)<sub>14</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Constructors

[LogoutModel](#)<sub>45</sub>

## Methods

[OnPost](#)<sub>46</sub>

## LogoutModel Constructor

**VB**

```
Public Sub New( _  
    ByVal signInManager As SignInManager(Of User), _  
    ByVal logger As ILogger(Of LogoutModel) _  
)
```

**C#**

```
public LogoutModel(  
    SignInManager<User> signInManager,  
    ILogger<LogoutModel> logger  
)
```

**[C++]**

```
public:  
LogoutModel(  
    SignInManager<User^>^ signInManager,  
    ILogger<LogoutModel^>^ logger  
)
```

**[JScript]**

JScript does not support generic types and methods.

**Parameters**

*signInManager*

*logger*

**See Also**

Applies to: [LogoutModel](#)<sub>44</sub>

**LogoutModel.OnPost Method****VB**

```
Public Function OnPost( _  
    Optional ByVal returnUrl As String = null _  
) As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> OnPost(  
    string returnUrl = null  
)
```

**[C++]**

```
public:  
Task<IActionResult>^ OnPost(  
    String^ returnUrl  
)
```

**[JScript]**

JScript does not support generic types and methods.

**Parameters**

*returnUrl*

**See Also**

Applies to: [LogoutModel](#)<sub>44</sub>

## RegisterConfirmationModel Class

**VB**

```
<AllowAnonymous()> _  
Public Class RegisterConfirmationModel  
    Inherits PageModel
```

**C#**

```
[AllowAnonymous()]  
public class RegisterConfirmationModel : PageModel
```

```
[C++]  
[AllowAnonymous()]  
public ref class RegisterConfirmationModel : public PageModel^
```

```
[JScript]  
public  
    AllowAnonymous()  
class RegisterConfirmationModel  
    extends PageModel
```

### Requirements

**Namespace:** [MelodyCircle.Areas.Identity.Pages.Account](#)<sub>14</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

### Constructors

[RegisterConfirmationModel](#)<sub>47</sub>

### Properties

[DisplayConfirmAccountLink](#)<sub>48</sub>, [Email](#)<sub>49</sub>, [EmailConfirmationUrl](#)<sub>49</sub>

### Methods

[OnGetAsync](#)<sub>50</sub>

## RegisterConfirmationModel Constructor

**VB**

```
Public Sub New( _  
    ByVal userManager As UserManager(Of User), _  
    ByVal sender As IEmailSender _  
)
```

**C#**

```
public RegisterConfirmationModel(
    UserManager<User> userManager,
    IEmailSender sender
)
```

```
[C++]
public:
RegisterConfirmationModel(
    UserManager<User^>^ userManager,
    IEmailSender^ sender
)
```

```
[JScript]
JScript does not support generic types and methods.
```

**Parameters***userManager**sender***See Also**Applies to: [RegisterConfirmationModel](#)<sub>47</sub>**RegisterConfirmationModel.DisplayConfirmAccountLink Property**

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Property DisplayConfirmAccountLink() As Boolean
```

**C#**

```
public bool DisplayConfirmAccountLink {get; set;}
```

```
[C++]
public:
property bool DisplayConfirmAccountLink {
    bool get( );
    void set(
        bool value
    )
}
```



```
);  
}
```

```
[JScript]  
public function get DisplayConfirmAccountLink() : boolean;  
public function set DisplayConfirmAccountLink(value : boolean);
```

## See Also

Applies to: [RegisterConfirmationModel](#)<sub>47</sub>

## RegisterConfirmationModel.Email Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Property Email() As String
```

**C#**

```
public string Email {get; set;}
```

```
[C++]  
public:  
property String^ Email {  
    String^ get( );  
    void set(  
        String^ value  
    );  
}
```

```
[JScript]  
public function get Email() : String;  
public function set Email(value : String);
```

## See Also

Applies to: [RegisterConfirmationModel](#)<sub>47</sub>

## RegisterConfirmationModel.EmailConfirmationUrl Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Property EmailConfirmationUrl() As String
```

**C#**

```
public string EmailConfirmationUrl {get; set;}
```

```
[C++]
public:
property String^ EmailConfirmationUrl {
    String^ get( );
    void set(
        String^ value
    );
}
```

**[JScript]**

```
public function get EmailConfirmationUrl() : String;
public function set EmailConfirmationUrl(value : String);
```

## See Also

Applies to: [RegisterConfirmationModel](#)<sub>47</sub>

## RegisterConfirmationModel.OnGetAsync Method

**VB**

```
Public Function OnGetAsync( _
    ByVal email As String, _
    Optional ByVal returnUrl As String = null _
) As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> OnGetAsync(
    string email,
    string returnUrl = null
)
```

```
[C++]
public:
Task<IActionResult>^ OnGetAsync(
    String^ email,
    String^ returnUrl
```

```
)
```

**[JScript]**

JScript does not support generic types and methods.

**Parameters**

*email*

*returnUrl*

**See Also**

Applies to: [RegisterConfirmationModel](#)<sub>47</sub>

**RegisterModel Class****VB**

```
Public Class RegisterModel  
    Inherits PageModel
```

**C#**

```
public class RegisterModel : PageModel
```

**[C++]**

```
public ref class RegisterModel : public PageModel^
```

**[JScript]**

```
public class RegisterModel  
    extends PageModel
```

**Requirements**

**Namespace:** [MelodyCircle.Areas.Identity.Pages.Account](#)<sub>14</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

**Constructors**

[RegisterModel](#)<sub>52</sub>

**Properties**

[ExternalLogins](#)<sub>53</sub>, [Input](#)<sub>54</sub>, [ReturnUrl](#)<sub>54</sub>

## Methods

[OnGetAsync](#)<sup>55</sup>, [OnPostAsync](#)<sup>56</sup>

## Classes

[InputModel](#)<sup>56</sup>

## RegisterModel Constructor

**VB**

```
Public Sub New( _  
    ByVal userManager As UserManager(Of User), _  
    ByVal userStore As IUserStore(Of User), _  
    ByVal signInManager As SignInManager(Of User), _  
    ByVal logger As ILogger(Of RegisterModel), _  
    ByVal emailSender As IEmailSender, _  
    ByVal roleManager As RoleManager(Of IdentityRole) _  
)
```

**C#**

```
public RegisterModel(  
    UserManager<User> userManager,  
    IUserStore<User> userStore,  
    SignInManager<User> signInManager,  
    ILogger<RegisterModel> logger,  
    IEmailSender emailSender,  
    RoleManager<IdentityRole> roleManager  
)
```

**[C++]**

```
public:  
RegisterModel(  
    UserManager<User^>^ userManager,  
    IUserStore<User^>^ userStore,  
    SignInManager<User^>^ signInManager,  
    ILogger<RegisterModel^>^ logger,  
    IEmailSender^ emailSender,  
    RoleManager<IdentityRole^>^ roleManager  
)
```

**[JScript]**

JScript does not support generic types and methods.

## Parameters

*userManager*

*userStore*

*signInManager*

*logger*

*emailSender*

*roleManager*

## See Also

Applies to: [RegisterModel](#)<sub>51</sub>

## RegisterModel.ExternalLogins Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Property ExternalLogins() As IList(Of AuthenticationScheme)
```

**C#**

```
public IList<AuthenticationScheme> ExternalLogins {get; set;}
```

```
[C++]
public:
property IList<AuthenticationScheme^> ExternalLogins {
    IList<AuthenticationScheme^> get( );
    void set(
        IList<AuthenticationScheme^> value
    );
}
```

**[JScript]**

JScript does not support generic types and methods.

## See Also

Applies to: [RegisterModel](#)<sub>51</sub>

## RegisterModel.Input Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
<BindProperty()> _  
Public Property Input() As InputModel
```

**C#**

```
[BindProperty()]  
public InputModel Input {get; set;}
```

```
[C++]  
[BindProperty()]  
public:  
property InputModel^ Input {  
    InputModel^ get( );  
    void set(  
        InputModel^ value  
    );  
}
```

```
[JScript]  
public  
    BindProperty()  
function get Input() : InputModel;  
public  
    BindProperty()  
function set Input(value : InputModel);
```

### See Also

Applies to: [RegisterModel](#)<sub>51</sub>

## RegisterModel.ReturnUrl Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Property ReturnUrl() As String
```

**C#**

```
public string returnUrl {get; set;}
```

```
[C++]
public:
property String^ returnUrl {
    String^ get( );
    void set(
        String^ value
    );
}
```

```
[JScript]
public function get returnUrl() : String;
public function set returnUrl(value : String);
```

## See Also

Applies to: [RegisterModel](#)<sub>s1</sub>

## RegisterModel.OnGetAsync Method

**VB**

```
Public Function OnGetAsync( _
    Optional ByVal returnUrl As String = null _
) As Task
```

**C#**

```
public Task OnGetAsync(
    string returnUrl = null
)
```

```
[C++]
public:
Task^ OnGetAsync(
    String^ returnUrl
)
```

```
[JScript]
public function OnGetAsync(
    returnUrl : String
) : Task;
```

## Parameters

*returnUrl*

## See Also

Applies to: [RegisterModel](#)<sub>s1</sub>

## RegisterModel.OnPostAsync Method

**VB**

```
Public Function OnPostAsync( _  
    Optional ByVal returnUrl As String = null _  
) As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> OnPostAsync(  
    string returnUrl = null  
)
```

```
[C++]  
public:  
Task<IActionResult>^ OnPostAsync(  
    String^ returnUrl  
)
```

**[JScript]**

JScript does not support generic types and methods.

## Parameters

*returnUrl*

## See Also

Applies to: [RegisterModel](#)<sub>s1</sub>

## InputModel Class

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Class InputModel
```



**C#**

```
public class InputModel
```

**[C++]**

```
public ref class InputModel
```

**[JScript]**

```
public class InputModel
```

## Requirements

**Namespace:** [MelodyCircle.Areas.Identity.Pages.Account](#)<sub>14</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Properties

[BirthDate](#)<sub>57</sub>, [ConfirmPassword](#)<sub>58</sub>, [Email](#)<sub>59</sub>, [Name](#)<sub>60</sub>, [Password](#)<sub>61</sub>, [UserName](#)<sub>62</sub>

## See Also

Applies to: [RegisterModel](#)<sub>51</sub>

## InputModel.BirthDate Property

**VB**

```
<PersonalData()> _
<Required()> _
<DataType(DataType.Date)> _
<Display(Name = "Data Nascimento")> _
Public Property BirthDate() As DateOnly
```

**C#**

```
[PersonalData()]
[Required()]
[DataType(DataType.Date)]
[Display(Name = "Data Nascimento")]
public DateOnly BirthDate {get; set;}
```

**[C++]**

```
[PersonalData()]
[Required()]
[DataType(DataType.Date)]
[Display(Name = "Data Nascimento")]
public:
property DateOnly BirthDate {
```

```

DateOnly get( );
void set(
    DateOnly value
);
}

```

```

[JScrip]
public
    PersonalData()
    Required()
    DataType(DataType.Date)
    Display(Name = "Data Nascimento")
function get BirthDate() : DateOnly;
public
    PersonalData()
    Required()
    DataType(DataType.Date)
    Display(Name = "Data Nascimento")
function set BirthDate(value : DateOnly);

```

## See Also

Applies to: [InputModel](#)<sub>56</sub>

## InputModel.ConfirmPassword Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

### VB

```

<DataType(DataType.Password)> _
<Display(Name = "Confirm password")> _
<Compare("Password", ErrorMessage = "The password and confirmation password do
not match.")> _
Public Property ConfirmPassword() As String

```

### C#

```

[DataType(DataType.Password)]
[Display(Name = "Confirm password")]
[Compare("Password", ErrorMessage = "The password and confirmation password do
not match.")]
public string ConfirmPassword {get; set;}

```

### [C++]

```

[DataType(DataType.Password)]
[Display(Name = "Confirm password")]
[Compare("Password", ErrorMessage = "The password and confirmation password do

```

```

not match."}]
public:
property String^ ConfirmPassword {
    String^ get( );
    void set(
        String^ value
    );
}

```

```

[JScrip]
public
    DataType(DataType.Password)
    Display(Name = "Confirm password")
    Compare("Password", ErrorMessage = "The password and confirmation password do
not match.")
function get ConfirmPassword() : String;
public
    DataType(DataType.Password)
    Display(Name = "Confirm password")
    Compare("Password", ErrorMessage = "The password and confirmation password do
not match.")
function set ConfirmPassword(value : String);

```

## See Also

Applies to: [InputModel](#)<sub>56</sub>

## InputModel.Email Property

### VB

```

<Required()> _
<EmailAddress()> _
<UniqueEmail()> _
<Display(Name = "Email")> _
Public Property Email() As String

```

### C#

```

[Required()]
[EmailAddress()]
[UniqueEmail()]
[Display(Name = "Email")]
public string Email {get; set;}

```

### [C++]

```

[Required()]
[EmailAddress()]
[UniqueEmail()]

```

```
[Display(Name = "Email")]
public:
property String^ Email {
    String^ get( );
    void set(
        String^ value
    );
}
```

```
[JScript]
public
    Required()
    EmailAddress()
    UniqueEmail()
    Display(Name = "Email")
function get Email() : String;
public
    Required()
    EmailAddress()
    UniqueEmail()
    Display(Name = "Email")
function set Email(value : String);
```

## See Also

Applies to: [InputModel](#)<sub>56</sub>

## InputModel.Name Property

### VB

```
<Required()> _
<DataType(DataType.Text)> _
<Display(Name = "Name")> _
Public Property Name() As String
```

### C#

```
[Required()]
[DataType(DataType.Text)]
[Display(Name = "Name")]
public string Name {get; set;}
```

```
[C++]
[Required()]
[DataType(DataType.Text)]
[Display(Name = "Name")]
public:
property String^ Name {
```

```
String^ get( );
void set(
    String^ value
);
}
```

```
[JScript]
public
    Required()
    DataType(DataType.Text)
    Display(Name = "Name")
function get Name() : String;
public
    Required()
    DataType(DataType.Text)
    Display(Name = "Name")
function set Name(value : String);
```

## See Also

Applies to: [InputModel](#)<sub>56</sub>

## InputModel.Password Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

### VB

```
<Required()> _
<StringLength(20, ErrorMessage = "The {0} must be at least {2} and at max {1}
characters long.", MinimumLength = 6)> _
<DataType(DataType.Password)> _
<Display(Name = "Password")> _
Public Property Password() As String
```

### C#

```
[Required()]
[StringLength(20, ErrorMessage = "The {0} must be at least {2} and at max {1}
characters long.", MinimumLength = 6)]
[DataType(DataType.Password)]
[Display(Name = "Password")]
public string Password {get; set;}
```

### [C++]

```
[Required()]
[StringLength(20, ErrorMessage = "The {0} must be at least {2} and at max {1}
characters long.", MinimumLength = 6)]
```

```
[DataType(DataType.Password)]
[Display(Name = "Password")]
public:
property String^ Password {
    String^ get( );
    void set(
        String^ value
    );
}
```

```
[JScript]
public
    Required()
    StringLength(20, ErrorMessage = "The {0} must be at least {2} and at max {1}
characters long.", MinimumLength = 6)
    DataType(DataType.Password)
    Display(Name = "Password")
function get Password() : String;
public
    Required()
    StringLength(20, ErrorMessage = "The {0} must be at least {2} and at max {1}
characters long.", MinimumLength = 6)
    DataType(DataType.Password)
    Display(Name = "Password")
function set Password(value : String);
```

## See Also

Applies to: [InputModel](#)<sub>56</sub>

## InputModel.UserName Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

### VB

```
<Required()> _
<Display(Name = "Username")> _
<RegularExpression(@"^[^@]+$", ErrorMessage = "Username não pode conter '@')> _
Public Property UserName() As String
```

### C#

```
[Required()]
[Display(Name = "Username")]
[RegularExpression(@"^[^@]+$", ErrorMessage = "Username não pode conter '@')]
public string UserName {get; set;}
```

```
[C++]
[Required()]
[Display(Name = "Username")]
[RegularExpression(@"^[^@]+$", ErrorMessage = "Username não pode conter '@'")]
public:
property String^ UserName {
    String^ get( );
    void set(
        String^ value
    );
}
```

```
[JScript]
public
    Required()
    Display(Name = "Username")
    RegularExpression(@"^[^@]+$", ErrorMessage = "Username não pode conter '@'")
function get UserName() : String;
public
    Required()
    Display(Name = "Username")
    RegularExpression(@"^[^@]+$", ErrorMessage = "Username não pode conter '@'")
function set UserName(value : String);
```

## See Also

Applies to: [InputModel](#)<sub>56</sub>

## ResetPasswordConfirmationModel Class

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

### VB

```
<AllowAnonymous()> _
Public Class ResetPasswordConfirmationModel
    Inherits PageModel
```

### C#

```
[AllowAnonymous()]
public class ResetPasswordConfirmationModel : PageModel
```

```
[C++]
[AllowAnonymous()]
public ref class ResetPasswordConfirmationModel : public PageModel^
```

```
[JScript]
public
    AllowAnonymous()
class ResetPasswordConfirmationModel
    extends PageModel
```

## Requirements

**Namespace:** [MelodyCircle.Areas.Identity.Pages.Account](#)<sub>14</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Methods

[OnGet](#)<sub>64</sub>

## ResetPasswordConfirmationModel.OnGet Method

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Sub OnGet()
```

**C#**

```
public void OnGet()
```

```
[C++]
public:
void OnGet()
```

```
[JScript]
public function OnGet();
```

## See Also

Applies to: [ResetPasswordConfirmationModel](#)<sub>63</sub>

## ResetPasswordModel Class

**VB**

```
Public Class ResetPasswordModel
    Inherits PageModel
```



**C#**

```
public class ResetPasswordModel : PageModel
```

**[C++]**

```
public ref class ResetPasswordModel : public PageModel^
```

**[JScript]**

```
public class ResetPasswordModel  
    extends PageModel
```

## Requirements

**Namespace:** [MelodyCircle.Areas.Identity.Pages.Account](#)<sub>14</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Constructors

[ResetPasswordModel](#)<sub>65</sub>

## Properties

[Input](#)<sub>66</sub>

## Methods

[OnGet](#)<sub>67</sub>, [OnPostAsync](#)<sub>67</sub>

## Classes

[InputModel](#)<sub>68</sub>

## ResetPasswordModel Constructor

**VB**

```
Public Sub New( _  
    ByVal userManager As UserManager(Of User) _  
)
```

**C#**

```
public ResetPasswordModel(  
    UserManager<User> userManager  
)
```

**[C++]**

```
public:  
ResetPasswordModel(  

```

```
UserManager<User^>^ userManager
)
```

#### [JScript]

JScript does not support generic types and methods.

### Parameters

*userManager*

### See Also

Applies to: [ResetPasswordModel](#)<sub>64</sub>

## ResetPasswordModel.Input Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

#### VB

```
<BindProperty()> _
Public Property Input() As InputModel
```

#### C#

```
[BindProperty()]
public InputModel Input {get; set;}
```

```
[C++]
[BindProperty()]
public:
property InputModel^ Input {
    InputModel^ get( );
    void set(
        InputModel^ value
    );
}
```

```
[JScript]
public
    BindProperty()
function get Input() : InputModel;
public
    BindProperty()
function set Input(value : InputModel);
```

## See Also

Applies to: [ResetPasswordModel](#)<sub>64</sub>

## ResetPasswordModel.OnGet Method

**VB**

```
Public Function OnGet( _  
    Optional ByVal code As String = null _  
) As IActionResult
```

**C#**

```
public IActionResult OnGet(  
    string code = null  
)
```

```
[C++]  
public:  
IActionResult^ OnGet(  
    String^ code  
)
```

```
[JScript]  
public function OnGet(  
    code : String  
) : IActionResult;
```

## Parameters

*code*

## See Also

Applies to: [ResetPasswordModel](#)<sub>64</sub>

## ResetPasswordModel.OnPostAsync Method

**VB**

```
Public Function OnPostAsync() As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> OnPostAsync()
```

```
[C++]  
public:  
Task<IActionResult^> OnPostAsync()
```

```
[JScript]  
JScript does not support generic types and methods.
```

## See Also

Applies to: [ResetPasswordModel](#)<sub>64</sub>

## InputModel Class

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Class InputModel
```

**C#**

```
public class InputModel
```

```
[C++]  
public ref class InputModel
```

```
[JScript]  
public class InputModel
```

## Requirements

**Namespace:** [MelodyCircle.Areas.Identity.Pages.Account](#)<sub>14</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Properties

[Code](#)<sub>69</sub>, [ConfirmPassword](#)<sub>69</sub>, [Email](#)<sub>70</sub>, [Password](#)<sub>71</sub>

## See Also

Applies to: [ResetPasswordModel](#)<sub>64</sub>

## InputModel.Code Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
<Required()> _
Public Property Code() As String
```

**C#**

```
[Required()]
public string Code {get; set;}
```

```
[C++]
[Required()]
public:
property String^ Code {
    String^ get( );
    void set(
        String^ value
    );
}
```

```
[JScript]
public
    Required()
function get Code() : String;
public
    Required()
function set Code(value : String);
```

## See Also

Applies to: [InputModel](#)<sub>68</sub>

## InputModel.ConfirmPassword Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
<DataType(DataType.Password)> _
<Display(Name = "Confirm password")> _
<Compare("Password", ErrorMessage = "The password and confirmation password do
not match.")> _
Public Property ConfirmPassword() As String
```

**C#**

```
[DataType(DataType.Password)]
[Display(Name = "Confirm password")]
[Compare("Password", ErrorMessage = "The password and confirmation password do
not match.")]
public string ConfirmPassword {get; set;}
```

```
[C++]
[DataType(DataType.Password)]
[Display(Name = "Confirm password")]
[Compare("Password", ErrorMessage = "The password and confirmation password do
not match.")]
public:
property String^ ConfirmPassword {
String^ get( );
void set(
String^ value
);
}
```

```
[JScript]
public
DataType(DataType.Password)
Display(Name = "Confirm password")
Compare("Password", ErrorMessage = "The password and confirmation password do
not match.")
function get ConfirmPassword() : String;
public
DataType(DataType.Password)
Display(Name = "Confirm password")
Compare("Password", ErrorMessage = "The password and confirmation password do
not match.")
function set ConfirmPassword(value : String);
```

**See Also**

Applies to: [InputModel](#)<sub>68</sub>

**InputModel.Email Property**

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
<Required()> _
<EmailAddress()> _
Public Property Email() As String
```

**C#**

```
[Required()]
[EmailAddress()]
public string Email {get; set;}
```

```
[C++]
[Required()]
[EmailAddress()]
public:
property String^ Email {
    String^ get( );
    void set(
        String^ value
    );
}
```

```
[JScript]
public
    Required()
    EmailAddress()
function get Email() : String;
public
    Required()
    EmailAddress()
function set Email(value : String);
```

## See Also

Applies to: [InputModel](#)<sub>68</sub>

## InputModel.Password Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
<Required()> _
<StringLength(100, ErrorMessage = "The {0} must be at least {2} and at max {1}
characters long.", MinimumLength = 6)> _
<DataType(DataType.Password)> _
Public Property Password() As String
```

**C#**

```
[Required()]
[StringLength(100, ErrorMessage = "The {0} must be at least {2} and at max {1}
characters long.", MinimumLength = 6)]
[DataType(DataType.Password)]
```

```
public string Password {get; set;}
```

```
[C++]
[Required()]
[StringLength(100, ErrorMessage = "The {0} must be at least {2} and at max {1}
characters long.", MinimumLength = 6)]
[DataType(DataType.Password)]
public:
property String^ Password {
    String^ get( );
    void set(
        String^ value
    );
}
```

```
[JScript]
public
    Required()
    StringLength(100, ErrorMessage = "The {0} must be at least {2} and at max {1}
characters long.", MinimumLength = 6)
    DataType(DataType.Password)
function get Password() : String;
public
    Required()
    StringLength(100, ErrorMessage = "The {0} must be at least {2} and at max {1}
characters long.", MinimumLength = 6)
    DataType(DataType.Password)
function set Password(value : String);
```

## See Also

Applies to: [InputModel](#)<sub>68</sub>



## MelodyCircle.Areas.Identity.Pages.Account.Manage Namespace

### Classes

[ChangePasswordModel](#)<sup>73</sup>, [EmailModel](#)<sup>81</sup>, [ExternalLoginsModel](#)<sup>88</sup>, [IndexModel](#)<sup>95</sup>, [LanguageModel](#)<sup>105</sup>,  
[ManageNavPages](#)<sup>113</sup>, [PersonalDataModel](#)<sup>126</sup>, [SetPasswordModel](#)<sup>128</sup>,  
[TwoFactorAuthenticationModel](#)<sup>135</sup>

### ChangePasswordModel Class

**VB**

```
Public Class ChangePasswordModel  
    Inherits PageModel
```

**C#**

```
public class ChangePasswordModel : PageModel
```

**[C++]**

```
public ref class ChangePasswordModel : public PageModel^
```

**[JScript]**

```
public class ChangePasswordModel  
    extends PageModel
```

### Requirements

**Namespace:** [MelodyCircle.Areas.Identity.Pages.Account.Manage](#)<sup>73</sup>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

### Constructors

[ChangePasswordModel](#)<sup>74</sup>

### Properties

[Input](#)<sup>74</sup>, [StatusMessage](#)<sup>75</sup>

### Methods

[OnGetAsync](#)<sup>76</sup>, [OnPostAsync](#)<sup>77</sup>

### Classes

[InputModel](#)<sup>77</sup>

## ChangePasswordModel Constructor

**VB**

```
Public Sub New( _  
    ByVal userManager As UserManager(Of User), _  
    ByVal signInManager As SignInManager(Of User), _  
    ByVal logger As ILogger(Of ChangePasswordModel) _  
)
```

**C#**

```
public ChangePasswordModel(  
    UserManager<User> userManager,  
    SignInManager<User> signInManager,  
    ILogger<ChangePasswordModel> logger  
)
```

```
[C++]  
public:  
ChangePasswordModel(  
    UserManager<User>^ userManager,  
    SignInManager<User>^ signInManager,  
    ILogger<ChangePasswordModel>^ logger  
)
```

**[JScript]**

JScript does not support generic types and methods.

### Parameters

*userManager*

*signInManager*

*logger*

### See Also

Applies to: [ChangePasswordModel](#)<sub>73</sub>

## ChangePasswordModel.Input Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
<BindProperty()> _
Public Property Input() As InputModel
```

**C#**

```
[BindProperty()]
public InputModel Input {get; set;}
```

```
[C++]
[BindProperty()]
public:
property InputModel^ Input {
    InputModel^ get( );
    void set(
        InputModel^ value
    );
}
```

```
[JScript]
public
    BindProperty()
function get Input() : InputModel;
public
    BindProperty()
function set Input(value : InputModel);
```

**See Also**

Applies to: [ChangePasswordModel](#)<sub>73</sub>

**ChangePasswordModel.StatusMessage Property**

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
<TempData()> _
Public Property StatusMessage() As String
```

**C#**

```
[TempData()]
public string StatusMessage {get; set;}
```

```
[C++]
[TempData()]
public:
property String^ StatusMessage {
String^ get( );
void set(
String^ value
);
}
```

```
[JScript]
public
TempData()
function get StatusMessage() : String;
public
TempData()
function set StatusMessage(value : String);
```

## See Also

Applies to: [ChangePasswordModel](#)<sub>73</sub>

## ChangePasswordModel.OnGetAsync Method

**VB**

```
Public Function OnGetAsync() As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> OnGetAsync()
```

```
[C++]
public:
Task<IActionResult^> OnGetAsync()
```

```
[JScript]
JScript does not support generic types and methods.
```

## See Also

Applies to: [ChangePasswordModel](#)<sub>73</sub>

## ChangePasswordModel.OnPostAsync Method

**VB**

```
Public Function OnPostAsync() As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> OnPostAsync()
```

**[C++]**

```
public:  
Task<IActionResult>^ OnPostAsync()
```

**[JScript]**

JScript does not support generic types and methods.

### See Also

Applies to: [ChangePasswordModel](#)<sub>73</sub>

## InputModel Class

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Class InputModel
```

**C#**

```
public class InputModel
```

**[C++]**

```
public ref class InputModel
```

**[JScript]**

```
public class InputModel
```

### Requirements

Namespace: [MelodyCircle.Areas.Identity.Pages.Account.Manage](#)<sub>73</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Properties

[ConfirmPassword](#)<sup>78</sup>, [NewPassword](#)<sup>79</sup>, [OldPassword](#)<sup>80</sup>

## See Also

Applies to: [ChangePasswordModel](#)<sup>73</sup>

## InputModel.ConfirmPassword Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

### VB

```
<DataType(DataType.Password)> _
<DisplayName = "Confirm new password"> _
<Compare("NewPassword", ErrorMessage = "The new password and confirmation
password do not match.")> _
Public Property ConfirmPassword() As String
```

### C#

```
[DataType(DataType.Password)]
[DisplayName = "Confirm new password"]
[Compare("NewPassword", ErrorMessage = "The new password and confirmation
password do not match.")]
public string ConfirmPassword {get; set;}
```

```
[C++]
[DataType(DataType.Password)]
[DisplayName = "Confirm new password"]
[Compare("NewPassword", ErrorMessage = "The new password and confirmation
password do not match.")]
public:
property String^ ConfirmPassword {
String^ get( );
void set(
String^ value
);
}
```

```
[JScript]
public
DataType(DataType.Password)
DisplayName = "Confirm new password"
Compare("NewPassword", ErrorMessage = "The new password and confirmation
password do not match.")
function get ConfirmPassword() : String;
public
```

```

DataType(DataType.Password)
Display(Name = "Confirm new password")
Compare("NewPassword", ErrorMessage = "The new password and confirmation
password do not match.")
function set ConfirmPassword(value : String);

```

## See Also

Applies to: [InputModel](#)<sub>77</sub>

## InputModel.NewPassword Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

### VB

```

<Required(>> _
<StringLength(100, ErrorMessage = "The {0} must be at least {2} and at max {1}
characters long.", MinimumLength = 6)> _
<DataType(DataType.Password)> _
<Display(Name = "New password")> _
Public Property NewPassword() As String

```

### C#

```

[Required()]
[StringLength(100, ErrorMessage = "The {0} must be at least {2} and at max {1}
characters long.", MinimumLength = 6)]
[DataType(DataType.Password)]
[Display(Name = "New password")]
public string NewPassword {get; set;}

```

```

[C++]
[Required()]
[StringLength(100, ErrorMessage = "The {0} must be at least {2} and at max {1}
characters long.", MinimumLength = 6)]
[DataType(DataType.Password)]
[Display(Name = "New password")]
public:
property String^ NewPassword {
    String^ get( );
    void set(
        String^ value
    );
}

```

```

[JScript]
public

```

```

    Required()
    StringLength(100, ErrorMessage = "The {0} must be at least {2} and at max {1}
characters long.", MinimumLength = 6)
    DataType(DataType.Password)
    Display(Name = "New password")
function get NewPassword() : String;
public
    Required()
    StringLength(100, ErrorMessage = "The {0} must be at least {2} and at max {1}
characters long.", MinimumLength = 6)
    DataType(DataType.Password)
    Display(Name = "New password")
function set NewPassword(value : String);

```

## See Also

Applies to: [InputModel](#)<sub>77</sub>

## InputModel.OldPassword Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

### VB

```

<Required()> _
<DataType(DataType.Password)> _
<Display(Name = "Current password")> _
Public Property OldPassword() As String

```

### C#

```

[Required()]
[DataType(DataType.Password)]
[Display(Name = "Current password")]
public string OldPassword {get; set;}

```

```

[C++]
[Required()]
[DataType(DataType.Password)]
[Display(Name = "Current password")]
public:
property String^ OldPassword {
    String^ get( );
    void set(
        String^ value
    );
}

```



```
[JScript]
public
    Required()
    DataType(DataType.Password)
    Display(Name = "Current password")
function get OldPassword() : String;
public
    Required()
    DataType(DataType.Password)
    Display(Name = "Current password")
function set OldPassword(value : String);
```

## See Also

Applies to: [InputModel](#)<sub>77</sub>

## EmailModel Class

**VB**

```
Public Class EmailModel
    Inherits PageModel
```

**C#**

```
public class EmailModel : PageModel
```

**[C++]**

```
public ref class EmailModel : public PageModel^
```

**[JScript]**

```
public class EmailModel
    extends PageModel
```

## Requirements

**Namespace:** [MelodyCircle.Areas.Identity.Pages.Account.Manage](#)<sub>73</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Constructors

[EmailModel](#)<sub>82</sub>

## Properties

[Email](#)<sub>83</sub>, [Input](#)<sub>83</sub>, [IsEmailConfirmed](#)<sub>84</sub>, [StatusMessage](#)<sub>85</sub>

## Methods

[OnGetAsync](#)<sup>85</sup>, [OnPostChangeEmailAsync](#)<sup>86</sup>, [OnPostSendVerificationEmailAsync](#)<sup>86</sup>

## Classes

[InputModel](#)<sup>87</sup>

## EmailModel Constructor

**VB**

```
Public Sub New( _  
    ByVal userManager As UserManager(Of User), _  
    ByVal signInManager As SignInManager(Of User), _  
    ByVal emailSender As IEmailSender _  
)
```

**C#**

```
public EmailModel(  
    UserManager<User> userManager,  
    SignInManager<User> signInManager,  
    IEmailSender emailSender  
)
```

```
[C++]  
public:  
EmailModel(  
    UserManager<User^>^ userManager,  
    SignInManager<User^>^ signInManager,  
    IEmailSender^ emailSender  
)
```

**[JScript]**

JScript does not support generic types and methods.

## Parameters

*userManager*

*signInManager*

*emailSender*

## See Also

Applies to: [EmailModel](#)<sup>81</sup>

## EmailModel.Email Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Property Email() As String
```

**C#**

```
public string Email {get; set;}
```

```
[C++]
public:
property String^ Email {
    String^ get( );
    void set(
        String^ value
    );
}
```

```
[JScript]
public function get Email() : String;
public function set Email(value : String);
```

### See Also

Applies to: [EmailModel](#)<sub>81</sub>

## EmailModel.Input Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
<BindProperty()> _
Public Property Input() As InputModel
```

**C#**

```
[BindProperty()]
public InputModel Input {get; set;}
```

**[C++]**

```
[BindProperty()]
public:
property InputModel^ Input {
    InputModel^ get( );
    void set(
        InputModel^ value
    );
}
```

```
[JScript]
public
    BindProperty()
function get Input() : InputModel;
public
    BindProperty()
function set Input(value : InputModel);
```

## See Also

Applies to: [EmailModel](#)<sub>81</sub>

## EmailModel.IsEmailConfirmed Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Property IsEmailConfirmed() As Boolean
```

**C#**

```
public bool IsEmailConfirmed {get; set;}
```

```
[C++]
public:
property bool IsEmailConfirmed {
    bool get( );
    void set(
        bool value
    );
}
```

```
[JScript]
public function get IsEmailConfirmed() : boolean;
public function set IsEmailConfirmed(value : boolean);
```

## See Also

Applies to: [EmailModel](#)<sub>81</sub>

## EmailModel.StatusMessage Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
<TempData()> _  
Public Property StatusMessage() As String
```

**C#**

```
[TempData()]  
public string StatusMessage {get; set;}
```

```
[C++]  
[TempData()]  
public:  
property String^ StatusMessage {  
    String^ get( );  
    void set(  
        String^ value  
    );  
}
```

```
[JScript]  
public  
    TempData()  
function get StatusMessage() : String;  
public  
    TempData()  
function set StatusMessage(value : String);
```

## See Also

Applies to: [EmailModel](#)<sub>81</sub>

## EmailModel.OnGetAsync Method

**VB**

```
Public Function OnGetAsync() As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> OnGetAsync()
```

```
[C++]  
public:  
Task<IActionResult^> OnGetAsync()
```

```
[JScript]  
JScript does not support generic types and methods.
```

## See Also

Applies to: [EmailModel](#)<sub>81</sub>

## EmailModel.OnPostChangeEmailAsync Method

**VB**

```
Public Function OnPostChangeEmailAsync() As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> OnPostChangeEmailAsync()
```

```
[C++]  
public:  
Task<IActionResult^> OnPostChangeEmailAsync()
```

```
[JScript]  
JScript does not support generic types and methods.
```

## See Also

Applies to: [EmailModel](#)<sub>81</sub>

## EmailModel.OnPostSendVerificationEmailAsync Method

**VB**

```
Public Function OnPostSendVerificationEmailAsync() As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> OnPostSendVerificationEmailAsync()
```

```
[C++]  
public:  
Task<IActionResult>^ OnPostSendVerificationEmailAsync()
```

```
[JScript]  
JScript does not support generic types and methods.
```

## See Also

Applies to: [EmailModel](#)<sub>81</sub>

## InputModel Class

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Class InputModel
```

**C#**

```
public class InputModel
```

```
[C++]  
public ref class InputModel
```

```
[JScript]  
public class InputModel
```

## Requirements

**Namespace:** [MelodyCircle.Areas.Identity.Pages.Account.Manage](#)<sub>73</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Properties

[NewEmail](#)<sub>88</sub>

## See Also

Applies to: [EmailModel](#)<sub>81</sub>

## InputModel.NewEmail Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
<Required()> _  
<EmailAddress()> _  
<Display(Name = "New email")> _  
Public Property NewEmail() As String
```

**C#**

```
[Required()]  
[EmailAddress()]  
[Display(Name = "New email")]  
public string NewEmail {get; set;}
```

```
[C++]  
[Required()]  
[EmailAddress()]  
[Display(Name = "New email")]  
public:  
property String^ NewEmail {  
    String^ get( );  
    void set(  
        String^ value  
    );  
}
```

```
[JScript]  
public  
    Required()  
    EmailAddress()  
    Display(Name = "New email")  
function get NewEmail() : String;  
public  
    Required()  
    EmailAddress()  
    Display(Name = "New email")  
function set NewEmail(value : String);
```

### See Also

Applies to: [InputModel](#)<sub>87</sub>

## ExternalLoginsModel Class

**VB**



```
Public Class ExternalLoginsModel
    Inherits PageModel
```

C#

```
public class ExternalLoginsModel : PageModel
```

[C++]

```
public ref class ExternalLoginsModel : public PageModel^
```

[JScript]

```
public class ExternalLoginsModel
    extends PageModel
```

## Requirements

**Namespace:** [MelodyCircle.Areas.Identity.Pages.Account.Manage](#)<sup>73</sup>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Constructors

[ExternalLoginsModel](#)<sup>89</sup>

## Properties

[CurrentLogins](#)<sup>90</sup>, [OtherLogins](#)<sup>91</sup>, [ShowRemoveButton](#)<sup>91</sup>, [StatusMessage](#)<sup>92</sup>

## Methods

[OnGetAsync](#)<sup>93</sup>, [OnGetLinkLoginCallbackAsync](#)<sup>93</sup>, [OnPostLinkLoginAsync](#)<sup>94</sup>, [OnPostRemoveLoginAsync](#)<sup>95</sup>

## ExternalLoginsModel Constructor

VB

```
Public Sub New( _
    ByVal userManager As UserManager(Of User), _
    ByVal signInManager As SignInManager(Of User), _
    ByVal userStore As IUserStore(Of User) _
)
```

C#

```
public ExternalLoginsModel(
    UserManager<User> userManager,
    SignInManager<User> signInManager,
    IUserStore<User> userStore
)
```

```
[C++]
public:
ExternalLoginsModel(
    UserManager<User^>^ userManager,
    SignInManager<User^>^ signInManager,
    IUserStore<User^>^ userStore
)
```

```
[JScript]
JScript does not support generic types and methods.
```

## Parameters

*userManager*

*signInManager*

*userStore*

## See Also

Applies to: [ExternalLoginsModel](#)<sub>88</sub>

## ExternalLoginsModel.CurrentLogins Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Property CurrentLogins() As IList(Of UserLoginInfo)
```

**C#**

```
public IList<UserLoginInfo> CurrentLogins {get; set;}
```

```
[C++]
public:
property IList<UserLoginInfo^>^ CurrentLogins {
    IList<UserLoginInfo^>^ get( );
    void set(
        IList<UserLoginInfo^>^ value
    );
}
```

**[JScript]**

JScript does not support generic types and methods.

**See Also**

Applies to: [ExternalLoginsModel](#)<sub>88</sub>

**ExternalLoginsModel.OtherLogins Property**

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Property OtherLogins() As IList(Of AuthenticationScheme)
```

**C#**

```
public IList<AuthenticationScheme> OtherLogins {get; set;}
```

**[C++]**

```
public:
property IList<AuthenticationScheme^> OtherLogins {
    IList<AuthenticationScheme^> get( );
    void set(
        IList<AuthenticationScheme^> value
    );
}
```

**[JScript]**

JScript does not support generic types and methods.

**See Also**

Applies to: [ExternalLoginsModel](#)<sub>88</sub>

**ExternalLoginsModel.ShowRemoveButton Property**

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Property ShowRemoveButton() As Boolean
```

**C#**

```
public bool ShowRemoveButton {get; set;}
```

```
[C++]
public:
property bool ShowRemoveButton {
    bool get( );
    void set(
        bool value
    );
}
```

```
[JScript]
public function get ShowRemoveButton() : boolean;
public function set ShowRemoveButton(value : boolean);
```

## See Also

Applies to: [ExternalLoginsModel](#)<sub>88</sub>

## ExternalLoginsModel.StatusMessage Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
<TempData()> _
Public Property StatusMessage() As String
```

**C#**

```
[TempData()]
public string StatusMessage {get; set;}
```

```
[C++]
[TempData()]
public:
property String^ StatusMessage {
    String^ get( );
    void set(
        String^ value
    );
}
```

```
[JScript]
public
    TempData()
function get StatusMessage() : String;
public
    TempData()
function set StatusMessage(value : String);
```

## See Also

Applies to: [ExternalLoginsModel](#)<sub>88</sub>

## ExternalLoginsModel.OnGetAsync Method

**VB**

```
Public Function OnGetAsync() As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> OnGetAsync()
```

```
[C++]
public:
Task<IActionResult^> OnGetAsync()
```

```
[JScript]
JScript does not support generic types and methods.
```

## See Also

Applies to: [ExternalLoginsModel](#)<sub>88</sub>

## ExternalLoginsModel.OnGetLinkLoginCallbackAsync Method

**VB**

```
Public Function OnGetLinkLoginCallbackAsync() As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> OnGetLinkLoginCallbackAsync()
```

```
[C++]
public:
Task<IActionResult>^ OnGetLinkLoginCallbackAsync()
```

```
[JScript]
JScript does not support generic types and methods.
```

## See Also

Applies to: [ExternalLoginsModel](#)<sub>88</sub>

## ExternalLoginsModel.OnPostLinkLoginAsync Method

**VB**

```
Public Function OnPostLinkLoginAsync( _
    ByVal provider As String _
) As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> OnPostLinkLoginAsync(
    string provider
)
```

```
[C++]
public:
Task<IActionResult>^ OnPostLinkLoginAsync(
    String^ provider
)
```

```
[JScript]
JScript does not support generic types and methods.
```

## Parameters

*provider*

## See Also

Applies to: [ExternalLoginsModel](#)<sub>88</sub>

## ExternalLoginsModel.OnPostRemoveLoginAsync Method

VB

```
Public Function OnPostRemoveLoginAsync( _
    ByVal loginProvider As String, _
    ByVal providerKey As String _
) As Task(Of IActionResult)
```

C#

```
public Task<IActionResult> OnPostRemoveLoginAsync(
    string loginProvider,
    string providerKey
)
```

```
[C++]
public:
Task<IActionResult>^ OnPostRemoveLoginAsync(
    String^ loginProvider,
    String^ providerKey
)
```

[JScript]

JScript does not support generic types and methods.

### Parameters

*loginProvider*

*providerKey*

### See Also

Applies to: [ExternalLoginsModel](#)<sub>88</sub>

## IndexModel Class

VB

```
Public Class IndexModel
    Inherits PageModel
```

C#

```
public class IndexModel : PageModel
```

```
[C++]
public ref class IndexModel : public PageModel^
```

```
[JScript]
public class IndexModel
    extends PageModel
```

## Requirements

**Namespace:** [MelodyCircle.Areas.Identity.Pages.Account.Manage](#)<sup>73</sup>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Constructors

[IndexModel](#)<sup>96</sup>

## Properties

[Input](#)<sup>97</sup>, [StatusMessage](#)<sup>98</sup>, [Username](#)<sup>98</sup>

## Methods

[OnGetAsync](#)<sup>99</sup>, [OnPostAsync](#)<sup>100</sup>

## Classes

[InputModel](#)<sup>100</sup>

## IndexModel Constructor

### VB

```
Public Sub New( _
    ByVal userManager As UserManager(Of User), _
    ByVal signInManager As SignInManager(Of User) _
)
```

### C#

```
public IndexModel(
    UserManager<User> userManager,
    SignInManager<User> signInManager
)
```

```
[C++]
public:
IndexModel(
    UserManager<User^>^ userManager,
    SignInManager<User^>^ signInManager
)
```



**[JScript]**

JScript does not support generic types and methods.

**Parameters**

*userManager*

*signInManager*

**See Also**

Applies to: [IndexModel](#)<sub>95</sub>

**IndexModel.Input Property**

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
<BindProperty()> _
Public Property Input() As InputModel
```

**C#**

```
[BindProperty()]
public InputModel Input {get; set;}
```

```
[C++]
[BindProperty()]
public:
property InputModel^ Input {
    InputModel^ get( );
    void set(
        InputModel^ value
    );
}
```

```
[JScript]
public
    BindProperty()
function get Input() : InputModel;
public
    BindProperty()
function set Input(value : InputModel);
```

## See Also

Applies to: [IndexModel](#)<sub>95</sub>

## IndexModel.StatusMessage Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
<TempData()> _  
Public Property StatusMessage() As String
```

**C#**

```
[TempData()]  
public string StatusMessage {get; set;}
```

```
[C++]  
[TempData()]  
public:  
property String^ StatusMessage {  
    String^ get( );  
    void set(  
        String^ value  
    );  
}
```

```
[JScript]  
public  
    TempData()  
function get StatusMessage() : String;  
public  
    TempData()  
function set StatusMessage(value : String);
```

## See Also

Applies to: [IndexModel](#)<sub>95</sub>

## IndexModel.Username Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Property Username() As String
```

**C#**

```
public string Username {get; set;}
```

```
[C++]
public:
property String^ Username {
    String^ get( );
    void set(
        String^ value
    );
}
```

**[JScript]**

```
public function get Username() : String;
public function set Username(value : String);
```

## See Also

Applies to: [IndexModel](#)<sub>95</sub>

## IndexModel.OnGetAsync Method

**VB**

```
Public Function OnGetAsync() As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> OnGetAsync()
```

**[C++]**

```
public:
Task<IActionResult^> OnGetAsync()
```

**[JScript]**

JScript does not support generic types and methods.

## See Also

Applies to: [IndexModel](#)<sub>95</sub>

## IndexModel.OnPostAsync Method

**VB**

```
Public Function OnPostAsync() As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> OnPostAsync()
```

**[C++]**

```
public:  
Task<IActionResult>^ OnPostAsync()
```

**[JScript]**

JScript does not support generic types and methods.

### See Also

Applies to: [IndexModel](#)<sub>95</sub>

## InputModel Class

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Class InputModel
```

**C#**

```
public class InputModel
```

**[C++]**

```
public ref class InputModel
```

**[JScript]**

```
public class InputModel
```

### Requirements

Namespace: [MelodyCircle.Areas.Identity.Pages.Account.Manage](#)<sub>73</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Properties

[BirthDate](#)<sub>101</sub>, [Gender](#)<sub>102</sub>, [Locality](#)<sub>102</sub>, [Name](#)<sub>103</sub>, [PhoneNumber](#)<sub>104</sub>

## See Also

Applies to: [IndexModel](#)<sub>95</sub>

## InputModel.BirthDate Property

**VB**

```
<DataType(DataType.Date)> _  
<Display(Name = "Data Nascimento")> _  
Public Property BirthDate() As DateOnly
```

**C#**

```
[DataType(DataType.Date)]  
[Display(Name = "Data Nascimento")]  
public DateOnly BirthDate {get; set;}
```

```
[C++]  
[DataType(DataType.Date)]  
[Display(Name = "Data Nascimento")]  
public:  
property DateOnly BirthDate {  
    DateOnly get( );  
    void set(  
        DateOnly value  
    );  
}
```

```
[JScript]  
public  
    DataType(DataType.Date)  
    Display(Name = "Data Nascimento")  
function get BirthDate() : DateOnly;  
public  
    DataType(DataType.Date)  
    Display(Name = "Data Nascimento")  
function set BirthDate(value : DateOnly);
```

## See Also

Applies to: [InputModel](#)<sub>100</sub>

## InputModel.Gender Property

**VB**

```
<Display(Name = "Género")> _  
Public Property Gender() As Gender
```

**C#**

```
[Display(Name = "Género")]  
public Gender Gender {get; set;}
```

```
[C++]  
[Display(Name = "Género")]  
public:  
property Gender Gender {  
    Gender get( );  
    void set(  
        Gender value  
    );  
}
```

```
[JScript]  
public  
    Display(Name = "Género")  
function get Gender() : Gender;  
public  
    Display(Name = "Género")  
function set Gender(value : Gender);
```

### See Also

Applies to: [InputModel](#)<sub>100</sub>

## InputModel.Locality Property

**VB**

```
<Display(Name = "Localidade")> _  
Public Property Locality() As String
```

**C#**

```
[Display(Name = "Localidade")]  
public string Locality {get; set;}
```

```
[C++]
[Display(Name = "Localidade")]
public:
property String^ Locality {
String^ get( );
void set(
String^ value
);
}
```

```
[JScript]
public
Display(Name = "Localidade")
function get Locality() : String;
public
Display(Name = "Localidade")
function set Locality(value : String);
```

## See Also

Applies to: [InputModel](#)<sub>100</sub>

## InputModel.Name Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
<Display(Name= "Nome de Perfil")> _
Public Property Name() As String
```

**C#**

```
[Display(Name= "Nome de Perfil")]
public string Name {get; set;}
```

```
[C++]
[Display(Name= "Nome de Perfil")]
public:
property String^ Name {
String^ get( );
void set(
String^ value
);
}
```

```
[JScript]
public
    Display(Name= "Nome de Perfil")
function get Name() : String;
public
    Display(Name= "Nome de Perfil")
function set Name(value : String);
```

## See Also

Applies to: [InputModel](#)<sub>100</sub>

## InputModel.PhoneNumber Property

**VB**

```
<Phone()> _
<Display(Name = "Phone number")> _
Public Property PhoneNumber() As String
```

**C#**

```
[Phone()]
[Display(Name = "Phone number")]
public string PhoneNumber {get; set;}
```

```
[C++]
[Phone()]
[Display(Name = "Phone number")]
public:
property String^ PhoneNumber {
    String^ get( );
    void set(
        String^ value
    );
}
```

```
[JScript]
public
    Phone()
    Display(Name = "Phone number")
function get PhoneNumber() : String;
public
    Phone()
    Display(Name = "Phone number")
function set PhoneNumber(value : String);
```

## See Also



Applies to: [InputModel](#)<sub>100</sub>

## LanguageModel Class

**VB**

```
Public Class LanguageModel
    Inherits PageModel
```

**C#**

```
public class LanguageModel : PageModel
```

**[C++]**

```
public ref class LanguageModel : public PageModel^
```

**[JScript]**

```
public class LanguageModel
    extends PageModel
```

## Requirements

**Namespace:** [MelodyCircle.Areas.Identity.Pages.Account.Manage](#)<sub>73</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Constructors

[LanguageModel](#)<sub>105</sub>

## Properties

[Input](#)<sub>106</sub>, [StatusMessage](#)<sub>107</sub>

## Methods

[OnGetAsync](#)<sub>108</sub>, [OnPostAsync](#)<sub>108</sub>

## Classes

[InputModel](#)<sub>109</sub>

## LanguageModel Constructor

**VB**

```
Public Sub New( _
    ByVal userManager As UserManager(Of User), _
    ByVal signInManager As SignInManager(Of User), _
    ByVal logger As ILogger(Of LanguageModel) _
)
```

**C#**

```
public LanguageModel(  
    UserManager<User> userManager,  
    SignInManager<User> signInManager,  
    ILogger<LanguageModel> logger  
)
```

```
[C++]  
public:  
LanguageModel(  
    UserManager<User^>^ userManager,  
    SignInManager<User^>^ signInManager,  
    ILogger<LanguageModel^>^ logger  
)
```

**[JScript]**

JScript does not support generic types and methods.

## Parameters

*userManager*

*signInManager*

*logger*

## See Also

Applies to: [LanguageModel](#)<sub>105</sub>

## LanguageModel.Input Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
<BindProperty()> _  
Public Property Input() As InputModel
```

**C#**

```
[BindProperty()]  
public InputModel Input {get; set;}
```

```
[C++]
[BindProperty()]
public:
property InputModel^ Input {
    InputModel^ get( );
    void set(
        InputModel^ value
    );
}
```

```
[JScript]
public
    BindProperty()
function get Input() : InputModel;
public
    BindProperty()
function set Input(value : InputModel);
```

## See Also

Applies to: [LanguageModel](#)<sub>105</sub>

## LanguageModel.StatusMessage Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

### VB

```
<TempData()> _
Public Property StatusMessage() As String
```

### C#

```
[TempData()]
public string StatusMessage {get; set;}
```

```
[C++]
[TempData()]
public:
property String^ StatusMessage {
    String^ get( );
    void set(
        String^ value
    );
}
```

```
[JScript]
public
    TempData()
function get StatusMessage() : String;
public
    TempData()
function set StatusMessage(value : String);
```

## See Also

Applies to: [LanguageModel](#)<sub>105</sub>

## LanguageModel.OnGetAsync Method

**VB**

```
Public Function OnGetAsync() As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> OnGetAsync()
```

```
[C++]
public:
    Task<IActionResult^> OnGetAsync()
```

```
[JScript]
JScript does not support generic types and methods.
```

## See Also

Applies to: [LanguageModel](#)<sub>105</sub>

## LanguageModel.OnPostAsync Method

**VB**

```
Public Function OnPostAsync() As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> OnPostAsync()
```

```
[C++]
public:
Task<IActionResult^>^ OnPostAsync()
```

```
[JScript]
JScript does not support generic types and methods.
```

## See Also

Applies to: [LanguageModel](#)<sub>105</sub>

## InputModel Class

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Class InputModel
```

**C#**

```
public class InputModel
```

```
[C++]
public ref class InputModel
```

```
[JScript]
public class InputModel
```

## Requirements

**Namespace:** [MelodyCircle.Areas.Identity.Pages.Account.Manage](#)<sub>73</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Properties

[ConfirmPassword](#)<sub>110</sub>, [NewPassword](#)<sub>111</sub>, [OldPassword](#)<sub>112</sub>

## See Also

Applies to: [LanguageModel](#)<sub>105</sub>

## InputModel.ConfirmPassword Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
<DataType(DataType.Password)> _
<Display(Name = "Confirm new password")> _
<Compare("NewPassword", ErrorMessage = "The new password and confirmation
password do not match.")> _
Public Property ConfirmPassword() As String
```

**C#**

```
[DataType(DataType.Password)]
[Display(Name = "Confirm new password")]
[Compare("NewPassword", ErrorMessage = "The new password and confirmation
password do not match.")]
public string ConfirmPassword {get; set;}
```

```
[C++]
[DataType(DataType.Password)]
[Display(Name = "Confirm new password")]
[Compare("NewPassword", ErrorMessage = "The new password and confirmation
password do not match.")]
public:
property String^ ConfirmPassword {
    String^ get( );
    void set(
        String^ value
    );
}
```

```
[JScript]
public
    DataType(DataType.Password)
    Display(Name = "Confirm new password")
    Compare("NewPassword", ErrorMessage = "The new password and confirmation
password do not match.")
function get ConfirmPassword() : String;
public
    DataType(DataType.Password)
    Display(Name = "Confirm new password")
    Compare("NewPassword", ErrorMessage = "The new password and confirmation
password do not match.")
function set ConfirmPassword(value : String);
```

### See Also

Applies to: [InputModel](#)<sub>109</sub>

## InputModel.NewPassword Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
<Required()> _
<StringLength(100, ErrorMessage = "The {0} must be at least {2} and at max {1}
characters long.", MinimumLength = 6)> _
<DataType(DataType.Password)> _
<Display(Name = "New password")> _
Public Property NewPassword() As String
```

**C#**

```
[Required()]
[StringLength(100, ErrorMessage = "The {0} must be at least {2} and at max {1}
characters long.", MinimumLength = 6)]
[DataType(DataType.Password)]
[Display(Name = "New password")]
public string NewPassword {get; set;}
```

```
[C++]
[Required()]
[StringLength(100, ErrorMessage = "The {0} must be at least {2} and at max {1}
characters long.", MinimumLength = 6)]
[DataType(DataType.Password)]
[Display(Name = "New password")]
public:
property String^ NewPassword {
    String^ get( );
    void set(
        String^ value
    );
}
```

```
[JScript]
public
    Required()
    StringLength(100, ErrorMessage = "The {0} must be at least {2} and at max {1}
characters long.", MinimumLength = 6)
    DataType(DataType.Password)
    Display(Name = "New password")
function get NewPassword() : String;
public
    Required()
    StringLength(100, ErrorMessage = "The {0} must be at least {2} and at max {1}
characters long.", MinimumLength = 6)
    DataType(DataType.Password)
    Display(Name = "New password")
function set NewPassword(value : String);
```

## See Also

Applies to: [InputModel](#)<sub>109</sub>

## InputModel.OldPassword Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
<Required()> _  
<DataType(DataType.Password)> _  
<Display(Name = "Current password")> _  
Public Property OldPassword() As String
```

**C#**

```
[Required()]  
[DataType(DataType.Password)]  
[Display(Name = "Current password")]  
public string OldPassword {get; set;}
```

```
[C++]  
[Required()]  
[DataType(DataType.Password)]  
[Display(Name = "Current password")]  
public:  
property String^ OldPassword {  
    String^ get( );  
    void set(  
        String^ value  
    );  
}
```

```
[JScript]  
public  
    Required()  
    DataType(DataType.Password)  
    Display(Name = "Current password")  
function get OldPassword() : String;  
public  
    Required()  
    DataType(DataType.Password)  
    Display(Name = "Current password")  
function set OldPassword(value : String);
```

## See Also



Applies to: [InputModel](#)<sup>109</sup>

## ManageNavPages Class

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Class ManageNavPages
```

**C#**

```
public static class ManageNavPages
```

**[C++]**

```
public ref class ManageNavPages
```

**[JScript]**

```
public class ManageNavPages
```

## Requirements

**Namespace:** [MelodyCircle.Areas.Identity.Pages.Account.Manage](#)<sup>73</sup>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Properties

[ChangePassword](#)<sup>113</sup>, [DeletePersonalData](#)<sup>114</sup>, [DownloadPersonalData](#)<sup>115</sup>, [Email](#)<sup>115</sup>, [ExternalLogins](#)<sup>116</sup>, [Index](#)<sup>116</sup>, [Language](#)<sup>117</sup>, [PersonalData](#)<sup>117</sup>, [TwoFactorAuthentication](#)<sup>118</sup>

## Methods

[ChangePasswordNavClass](#)<sup>119</sup>, [DeletePersonalDataNavClass](#)<sup>119</sup>, [DownloadPersonalDataNavClass](#)<sup>120</sup>, [EmailNavClass](#)<sup>121</sup>, [ExternalLoginsNavClass](#)<sup>122</sup>, [IndexNavClass](#)<sup>122</sup>, [LanguageNavClass](#)<sup>123</sup>, [PageNavClass](#)<sup>124</sup>, [PersonalDataNavClass](#)<sup>125</sup>, [TwoFactorAuthenticationNavClass](#)<sup>126</sup>

## ManageNavPages.ChangePassword Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public ReadOnly Shared Property ChangePassword() As String
```

**C#**

```
public static string ChangePassword {get;}
```

```
[C++]  
public:  
static property String^ ChangePassword {  
    String^ get( );  
}
```

```
[JScript]  
public static function get ChangePassword() : String;
```

## See Also

Applies to: [ManageNavPages](#)<sub>113</sub>

## ManageNavPages.DeletePersonalData Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public ReadOnly Shared Property DeletePersonalData() As String
```

**C#**

```
public static string DeletePersonalData {get;}
```

```
[C++]  
public:  
static property String^ DeletePersonalData {  
    String^ get( );  
}
```

```
[JScript]  
public static function get DeletePersonalData() : String;
```

## See Also

Applies to: [ManageNavPages](#)<sub>113</sub>

## ManageNavPages.DownloadPersonalData Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public ReadOnly Shared Property DownloadPersonalData() As String
```

**C#**

```
public static string DownloadPersonalData {get;}
```

```
[C++]
public:
static property String^ DownloadPersonalData {
    String^ get( );
}
```

**[JScript]**

```
public static function get DownloadPersonalData() : String;
```

### See Also

Applies to: [ManageNavPages](#)<sub>113</sub>

## ManageNavPages.Email Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public ReadOnly Shared Property Email() As String
```

**C#**

```
public static string Email {get;}
```

```
[C++]
public:
static property String^ Email {
    String^ get( );
}
```

```
[JScript]
public static function get Email() : String;
```

## See Also

Applies to: [ManageNavPages](#)<sub>113</sub>

## ManageNavPages.ExternalLogins Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public ReadOnly Shared Property ExternalLogins() As String
```

**C#**

```
public static string ExternalLogins {get;}
```

```
[C++]
public:
static property String^ ExternalLogins {
String^ get( );
}
```

```
[JScript]
public static function get ExternalLogins() : String;
```

## See Also

Applies to: [ManageNavPages](#)<sub>113</sub>

## ManageNavPages.Index Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public ReadOnly Shared Property Index() As String
```

**C#**

```
public static string Index {get;}
```

```
[C++]
public:
static property String^ Index {
    String^ get( );
}
```

```
[JScript]
public static function get Index() : String;
```

## See Also

Applies to: [ManageNavPages](#)<sub>113</sub>

## ManageNavPages.Language Property

**VB**

```
Public ReadOnly Shared Property Language() As String
```

**C#**

```
public static string Language {get;}
```

```
[C++]
public:
static property String^ Language {
    String^ get( );
}
```

```
[JScript]
public static function get Language() : String;
```

## See Also

Applies to: [ManageNavPages](#)<sub>113</sub>

## ManageNavPages.PersonalData Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public ReadOnly Shared Property PersonalData() As String
```

**C#**

```
public static string PersonalData {get;}
```

```
[C++]  
public:  
static property String^ PersonalData {  
    String^ get( );  
}
```

**[JScript]**

```
public static function get PersonalData() : String;
```

## See Also

Applies to: [ManageNavPages](#)<sub>113</sub>

## ManageNavPages.TwoFactorAuthentication Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public ReadOnly Shared Property TwoFactorAuthentication() As String
```

**C#**

```
public static string TwoFactorAuthentication {get;}
```

```
[C++]  
public:  
static property String^ TwoFactorAuthentication {  
    String^ get( );  
}
```

**[JScript]**

```
public static function get TwoFactorAuthentication() : String;
```

## See Also

Applies to: [ManageNavPages](#)<sub>113</sub>

## ManageNavPages.ChangePasswordNavClass Method

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Shared Function ChangePasswordNavClass( _  
    ByVal viewContext As ViewContext _  
) As String
```

**C#**

```
public static string ChangePasswordNavClass(  
    ViewContext viewContext  
)
```

```
[C++]  
public:  
static String^ ChangePasswordNavClass(  
    ViewContext^ viewContext  
)
```

```
[JScript]  
public static function ChangePasswordNavClass(  
    viewContext : ViewContext  
) : String;
```

### Parameters

*viewContext*

### See Also

Applies to: [ManageNavPages](#)<sub>113</sub>

## ManageNavPages.DeletePersonalDataNavClass Method

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Shared Function DeletePersonalDataNavClass( _  
    ByVal viewContext As ViewContext _  
) As String
```

**C#**

```
public static string DeletePersonalDataNavClass(  
    ViewContext viewContext  
)
```

```
[C++]  
public:  
static String^ DeletePersonalDataNavClass(  
    ViewContext^ viewContext  
)
```

```
[JScript]  
public static function DeletePersonalDataNavClass(  
    viewContext : ViewContext  
) : String;
```

## Parameters

*viewContext*

## See Also

Applies to: [ManageNavPages](#)<sub>113</sub>

## ManageNavPages.DownloadPersonalDataNavClass Method

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Shared Function DownloadPersonalDataNavClass( _  
    ByVal viewContext As ViewContext _  
) As String
```

**C#**

```
public static string DownloadPersonalDataNavClass(  
    ViewContext viewContext  
)
```

```
[C++]  
public:  
static String^ DownloadPersonalDataNavClass(  

```



```
    ViewContext^ viewContext  
)
```

```
[JScript]  
public static function DownloadPersonalDataNavClass(  
    viewContext : ViewContext  
) : String;
```

### Parameters

*viewContext*

### See Also

Applies to: [ManageNavPages](#)<sub>113</sub>

## ManageNavPages.EmailNavClass Method

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

#### VB

```
Public Shared Function EmailNavClass( _  
    ByVal viewContext As ViewContext _  
) As String
```

#### C#

```
public static string EmailNavClass(  
    ViewContext viewContext  
)
```

```
[C++]  
public:  
static String^ EmailNavClass(  
    ViewContext^ viewContext  
)
```

```
[JScript]  
public static function EmailNavClass(  
    viewContext : ViewContext  
) : String;
```

### Parameters

*viewController*

## See Also

Applies to: [ManageNavPages](#)<sub>113</sub>

## ManageNavPages.ExternalLoginsNavClass Method

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Shared Function ExternalLoginsNavClass( _  
    ByVal viewController As viewController _  
    ) As String
```

**C#**

```
public static string ExternalLoginsNavClass(  
    viewController viewController  
)
```

```
[C++]  
public:  
static String^ ExternalLoginsNavClass(  
    viewController^ viewController  
)
```

```
[JScript]  
public static function ExternalLoginsNavClass(  
    viewController : viewController  
    ) : String;
```

## Parameters

*viewController*

## See Also

Applies to: [ManageNavPages](#)<sub>113</sub>

## ManageNavPages.IndexNavClass Method

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Shared Function IndexNavClass( _  
    ByVal viewContext As ViewContext _  
) As String
```

**C#**

```
public static string IndexNavClass(  
    ViewContext viewContext  
)
```

```
[C++]  
public:  
static String^ IndexNavClass(  
    ViewContext^ viewContext  
)
```

```
[JScript]  
public static function IndexNavClass(  
    viewContext : ViewContext  
) : String;
```

## Parameters

*viewContext*

## See Also

Applies to: [ManageNavPages](#)<sub>113</sub>

## ManageNavPages.LanguageNavClass Method

**VB**

```
Public Shared Function LanguageNavClass( _  
    ByVal viewContext As ViewContext _  
) As String
```

**C#**

```
public static string LanguageNavClass(  
    ViewContext viewContext  
)
```

```
[C++]  
public:
```

```
static String^ LanguageNavClass(  
    ViewContext^ viewContext  
)
```

```
[JScript]  
public static function LanguageNavClass(  
    viewContext : ViewContext  
) : String;
```

## Parameters

*viewContext*

## See Also

Applies to: [ManageNavPages](#)<sub>113</sub>

## ManageNavPages.PageNavClass Method

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

### VB

```
Public Shared Function PageNavClass( _  
    ByVal viewContext As ViewContext, _  
    ByVal page As String _  
) As String
```

### C#

```
public static string PageNavClass(  
    ViewContext viewContext,  
    string page  
)
```

```
[C++]  
public:  
static String^ PageNavClass(  
    ViewContext^ viewContext,  
    String^ page  
)
```

```
[JScript]  
public static function PageNavClass(  
    viewContext : ViewContext,
```

```
    page : String  
  ) : String;
```

### Parameters

*viewContext*

*page*

### See Also

Applies to: [ManageNavPages](#)<sub>113</sub>

## ManageNavPages.PersonalDataNavClass Method

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

#### VB

```
Public Shared Function PersonalDataNavClass( _  
    ByVal viewContext As ViewContext _  
) As String
```

#### C#

```
public static string PersonalDataNavClass(  
    ViewContext viewContext  
)
```

```
[C++]  
public:  
static String^ PersonalDataNavClass(  
    ViewContext^ viewContext  
)
```

```
[JScript]  
public static function PersonalDataNavClass(  
    viewContext : ViewContext  
) : String;
```

### Parameters

*viewContext*

### See Also

Applies to: [ManageNavPages](#)<sub>113</sub>

## ManageNavPages.TwoFactorAuthenticationNavClass Method

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Shared Function TwoFactorAuthenticationNavClass( _  
    ByVal viewContext As ViewContext _  
) As String
```

**C#**

```
public static string TwoFactorAuthenticationNavClass(  
    ViewContext viewContext  
)
```

```
[C++]  
public:  
static String^ TwoFactorAuthenticationNavClass(  
    ViewContext^ viewContext  
)
```

```
[JScript]  
public static function TwoFactorAuthenticationNavClass(  
    viewContext : ViewContext  
) : String;
```

### Parameters

*viewContext*

### See Also

Applies to: [ManageNavPages](#)<sub>113</sub>

## PersonalDataModel Class

**VB**

```
Public Class PersonalDataModel  
    Inherits PageModel
```

**C#**

```
public class PersonalDataModel : PageModel
```

```
[C++]  
public ref class PersonalDataModel : public PageModel^
```

```
[JScript]  
public class PersonalDataModel  
    extends PageModel
```

## Requirements

**Namespace:** [MelodyCircle.Areas.Identity.Pages.Account.Manage](#)<sub>73</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Constructors

[PersonalDataModel](#)<sub>127</sub>

## Methods

[OnGet](#)<sub>128</sub>

## PersonalDataModel Constructor

**VB**

```
Public Sub New( _  
    ByVal userManager As UserManager(Of User), _  
    ByVal logger As ILogger(Of PersonalDataModel) _  
)
```

**C#**

```
public PersonalDataModel(  
    UserManager<User> userManager,  
    ILogger<PersonalDataModel> logger  
)
```

```
[C++]  
public:  
PersonalDataModel(  
    UserManager<User^>^ userManager,  
    ILogger<PersonalDataModel^>^ logger  
)
```

**[JScript]**

JScript does not support generic types and methods.

## Parameters

*userManager**logger*

## See Also

Applies to: [PersonalDataModel](#)<sub>126</sub>

## PersonalDataModel.OnGet Method

**VB**

```
Public Function OnGet() As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> OnGet()
```

**[C++]**

```
public:  
Task<IActionResult^>^ OnGet()
```

**[JScript]**

JScript does not support generic types and methods.

## See Also

Applies to: [PersonalDataModel](#)<sub>126</sub>

## SetPasswordModel Class

**VB**

```
Public Class SetPasswordModel  
    Inherits PageModel
```

**C#**

```
public class SetPasswordModel : PageModel
```



```
[C++]
public ref class SetPasswordModel : public PageModel^
```

```
[JScript]
public class SetPasswordModel
    extends PageModel
```

## Requirements

**Namespace:** [MelodyCircle.Areas.Identity.Pages.Account.Manage](#)<sup>73</sup>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Constructors

[SetPasswordModel](#)<sup>129</sup>

## Properties

[Input](#)<sup>130</sup>, [StatusMessage](#)<sup>131</sup>

## Methods

[OnGetAsync](#)<sup>131</sup>, [OnPostAsync](#)<sup>132</sup>

## Classes

[InputModel](#)<sup>133</sup>

## SetPasswordModel Constructor

**VB**

```
Public Sub New( _
    ByVal userManager As UserManager(Of User), _
    ByVal signInManager As SignInManager(Of User) _
)
```

**C#**

```
public SetPasswordModel(
    UserManager<User> userManager,
    SignInManager<User> signInManager
)
```

```
[C++]
public:
SetPasswordModel(
    UserManager<User^>^ userManager,
    SignInManager<User^>^ signInManager
```

```
)
```

#### [JScript]

JScript does not support generic types and methods.

## Parameters

*userManager*

*signInManager*

## See Also

Applies to: [SetPasswordModel](#)<sub>128</sub>

## SetPasswordModel.Input Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

### VB

```
<BindProperty()> _
Public Property Input() As InputModel
```

### C#

```
[BindProperty()]
public InputModel Input {get; set;}
```

```
[C++]
[BindProperty()]
public:
property InputModel^ Input {
    InputModel^ get( );
    void set(
        InputModel^ value
    );
}
```

```
[JScript]
public
    BindProperty()
function get Input() : InputModel;
public
    BindProperty()
```

```
function set Input(value : InputModel);
```

## See Also

Applies to: [SetPasswordModel](#)<sub>128</sub>

## SetPasswordModel.StatusMessage Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
<TempData()> _  
Public Property StatusMessage() As String
```

**C#**

```
[TempData()]  
public string StatusMessage {get; set;}
```

```
[C++]  
[TempData()]  
public:  
property String^ StatusMessage {  
    String^ get( );  
    void set(  
        String^ value  
    );  
}
```

```
[JScript]  
public  
    TempData()  
function get StatusMessage() : String;  
public  
    TempData()  
function set StatusMessage(value : String);
```

## See Also

Applies to: [SetPasswordModel](#)<sub>128</sub>

## SetPasswordModel.OnGetAsync Method

**VB**

```
Public Function OnGetAsync() As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> OnGetAsync()
```

```
[C++]  
public:  
Task<IActionResult>^ OnGetAsync()
```

```
[JScript]  
JScript does not support generic types and methods.
```

## See Also

Applies to: [SetPasswordModel](#)<sub>128</sub>

## SetPasswordModel.OnPostAsync Method

**VB**

```
Public Function OnPostAsync() As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> OnPostAsync()
```

```
[C++]  
public:  
Task<IActionResult>^ OnPostAsync()
```

```
[JScript]  
JScript does not support generic types and methods.
```

## See Also

Applies to: [SetPasswordModel](#)<sub>128</sub>

## InputModel Class

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Class InputModel
```

**C#**

```
public class InputModel
```

**[C++]**

```
public ref class InputModel
```

**[JScript]**

```
public class InputModel
```

## Requirements

**Namespace:** [MelodyCircle.Areas.Identity.Pages.Account.Manage](#)<sup>73</sup>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Properties

[ConfirmPassword](#)<sup>133</sup>, [NewPassword](#)<sup>134</sup>

## See Also

Applies to: [SetPasswordModel](#)<sup>128</sup>

## InputModel.ConfirmPassword Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
<DataType(DataType.Password)> _  
<Display(Name = "Confirm new password")> _  
<Compare("NewPassword", ErrorMessage = "The new password and confirmation  
password do not match.")> _  
Public Property ConfirmPassword() As String
```

**C#**

```
[DataType(DataType.Password)]  
[Display(Name = "Confirm new password")]
```

```
[Compare("NewPassword", ErrorMessage = "The new password and confirmation
password do not match.")]
public string ConfirmPassword {get; set;}
```

```
[C++]
[DataType(DataType.Password)]
[Display(Name = "Confirm new password")]
[Compare("NewPassword", ErrorMessage = "The new password and confirmation
password do not match.")]
public:
property String^ ConfirmPassword {
String^ get( );
void set(
String^ value
);
}
```

```
[JScript]
public
    DataType(DataType.Password)
    Display(Name = "Confirm new password")
    Compare("NewPassword", ErrorMessage = "The new password and confirmation
password do not match.")
function get ConfirmPassword() : String;
public
    DataType(DataType.Password)
    Display(Name = "Confirm new password")
    Compare("NewPassword", ErrorMessage = "The new password and confirmation
password do not match.")
function set ConfirmPassword(value : String);
```

## See Also

Applies to: [InputModel](#)<sub>133</sub>

## InputModel.NewPassword Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

### VB

```
<Required()> _
<StringLength(100, ErrorMessage = "The {0} must be at least {2} and at max {1}
characters long.", MinimumLength = 6)> _
<DataType(DataType.Password)> _
<Display(Name = "New password")> _
Public Property NewPassword() As String
```

### C#

```
[Required()]
[StringLength(100, ErrorMessage = "The {0} must be at least {2} and at max {1}
characters long.", MinimumLength = 6)]
[DataType(DataType.Password)]
[Display(Name = "New password")]
public string NewPassword {get; set;}
```

```
[C++]
[Required()]
[StringLength(100, ErrorMessage = "The {0} must be at least {2} and at max {1}
characters long.", MinimumLength = 6)]
[DataType(DataType.Password)]
[Display(Name = "New password")]
public:
property String^ NewPassword {
String^ get( );
void set(
String^ value
);
}
```

```
[JScript]
public
Required()
StringLength(100, ErrorMessage = "The {0} must be at least {2} and at max {1}
characters long.", MinimumLength = 6)
DataType(DataType.Password)
Display(Name = "New password")
function get NewPassword() : String;
public
Required()
StringLength(100, ErrorMessage = "The {0} must be at least {2} and at max {1}
characters long.", MinimumLength = 6)
DataType(DataType.Password)
Display(Name = "New password")
function set NewPassword(value : String);
```

## See Also

Applies to: [InputModel](#)<sub>133</sub>

## TwoFactorAuthenticationModel Class

**VB**

```
Public Class TwoFactorAuthenticationModel
Inherits PageModel
```

**C#**

```
public class TwoFactorAuthenticationModel : PageModel
```

```
[C++]
public ref class TwoFactorAuthenticationModel : public PageModel^
```

```
[JScript]
public class TwoFactorAuthenticationModel
    extends PageModel
```

## Requirements

**Namespace:** [MelodyCircle.Areas.Identity.Pages.Account.Manage](#)<sup>73</sup>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Constructors

[TwoFactorAuthenticationModel](#)<sup>136</sup>

## Properties

[HasAuthenticator](#)<sup>137</sup>, [Is2faEnabled](#)<sup>138</sup>, [IsMachineRemembered](#)<sup>138</sup>, [RecoveryCodesLeft](#)<sup>139</sup>,  
[StatusMessage](#)<sup>140</sup>

## Methods

[OnGetAsync](#)<sup>141</sup>, [OnPostAsync](#)<sup>141</sup>

## TwoFactorAuthenticationModel Constructor

**VB**

```
Public Sub New( _
    ByVal userManager As UserManager(Of User), _
    ByVal signInManager As SignInManager(Of User), _
    ByVal logger As ILogger(Of TwoFactorAuthenticationModel) _
)
```

**C#**

```
public TwoFactorAuthenticationModel(
    UserManager<User> userManager,
    SignInManager<User> signInManager,
    ILogger<TwoFactorAuthenticationModel> logger
)
```

```
[C++]
public:
```



```
TwoFactorAuthenticationModel(  
    UserManager<User>^ userManager,  
    SignInManager<User>^ signInManager,  
    ILogger<TwoFactorAuthenticationModel>^ logger  
)
```

[JScript]

JScript does not support generic types and methods.

## Parameters

*userManager*

*signInManager*

*logger*

## See Also

Applies to: [TwoFactorAuthenticationModel](#)<sub>135</sub>

## TwoFactorAuthenticationModel.HasAuthenticator Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Property HasAuthenticator() As Boolean
```

**C#**

```
public bool HasAuthenticator {get; set;}
```

```
[C++]  
public:  
property bool HasAuthenticator {  
    bool get( );  
    void set(  
        bool value  
    );  
}
```

[JScript]

```
public function get HasAuthenticator() : boolean;
```

```
public function set HasAuthenticator(value : boolean);
```

## See Also

Applies to: [TwoFactorAuthenticationModel](#)<sub>135</sub>

## TwoFactorAuthenticationModel.Is2faEnabled Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
<BindProperty()> _  
Public Property Is2faEnabled() As Boolean
```

**C#**

```
[BindProperty()]  
public bool Is2faEnabled {get; set;}
```

```
[C++]  
[BindProperty()]  
public:  
property bool Is2faEnabled {  
    bool get( );  
    void set(  
        bool value  
    );  
}
```

```
[JScript]  
public  
    BindProperty()  
function get Is2faEnabled() : boolean;  
public  
    BindProperty()  
function set Is2faEnabled(value : boolean);
```

## See Also

Applies to: [TwoFactorAuthenticationModel](#)<sub>135</sub>

## TwoFactorAuthenticationModel.IsMachineRemembered Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Property IsMachineRemembered() As Boolean
```

**C#**

```
public bool IsMachineRemembered {get; set;}
```

```
[C++]
public:
property bool IsMachineRemembered {
    bool get( );
    void set(
        bool value
    );
}
```

**[JScript]**

```
public function get IsMachineRemembered() : boolean;
public function set IsMachineRemembered(value : boolean);
```

## See Also

Applies to: [TwoFactorAuthenticationModel](#)<sub>135</sub>

## TwoFactorAuthenticationModel.RecoveryCodesLeft Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

**VB**

```
Public Property RecoveryCodesLeft() As Integer
```

**C#**

```
public int RecoveryCodesLeft {get; set;}
```

```
[C++]
public:
property int RecoveryCodesLeft {
    int get( );
    void set(
        int value
    );
}
```

```
[JScript]
public function get RecoveryCodesLeft() : int;
public function set RecoveryCodesLeft(value : int);
```

## See Also

Applies to: [TwoFactorAuthenticationModel](#)<sub>135</sub>

## TwoFactorAuthenticationModel.StatusMessage Property

This API supports the ASP.NET Core Identity default UI infrastructure and is not intended to be used directly from your code. This API may change or be removed in future releases.

### VB

```
<TempData()> _
Public Property StatusMessage() As String
```

### C#

```
[TempData()]
public string StatusMessage {get; set;}
```

```
[C++]
[TempData()]
public:
property String^ StatusMessage {
    String^ get( );
    void set(
        String^ value
    );
}
```

```
[JScript]
public
    TempData()
function get StatusMessage() : String;
public
    TempData()
function set StatusMessage(value : String);
```

## See Also

Applies to: [TwoFactorAuthenticationModel](#)<sub>135</sub>

## TwoFactorAuthenticationModel.OnGetAsync Method

**VB**

```
Public Function OnGetAsync() As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> OnGetAsync()
```

**[C++]**

```
public:  
Task<IActionResult>^ OnGetAsync()
```

**[JScript]**

JScript does not support generic types and methods.

### See Also

Applies to: [TwoFactorAuthenticationModel](#)<sub>135</sub>

## TwoFactorAuthenticationModel.OnPostAsync Method

**VB**

```
Public Function OnPostAsync() As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> OnPostAsync()
```

**[C++]**

```
public:  
Task<IActionResult>^ OnPostAsync()
```

**[JScript]**

JScript does not support generic types and methods.

### See Also

Applies to: [TwoFactorAuthenticationModel](#)<sub>135</sub>

## MelodyCircle.Controllers Namespace

### Classes

[AdminController](#)<sup>142</sup>, [CollaborationController](#)<sup>148</sup>, [HomeController](#)<sup>155</sup>, [SearchController](#)<sup>158</sup>,  
[StepController](#)<sup>161</sup>, [SubscribeTutorialController](#)<sup>167</sup>, [TutorialController](#)<sup>172</sup>, [UserController](#)<sup>180</sup>

### AdminController Class

**VB**

```
<Authorize(Roles = "Admin")> _  
Public Class AdminController  
    Inherits Controller
```

**C#**

```
[Authorize(Roles = "Admin")]  
public class AdminController : Controller
```

**[C++]**

```
[Authorize(Roles = "Admin")]  
public ref class AdminController : public Controller^
```

**[JScript]**

```
public  
    Authorize(Roles = "Admin")  
class AdminController  
    extends Controller
```

### Requirements

**Namespace:** [MelodyCircle.Controllers](#)<sup>142</sup>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

### Constructors

[AdminController](#)<sup>142</sup>

### Methods

[CreateMultipleUsers](#)<sup>143</sup>, [DeleteAddedUsers](#)<sup>144</sup>, [DeleteUser](#)<sup>145</sup>, [DeleteUserConfirmed](#)<sup>145</sup>, [EditUser](#)<sup>146</sup>,  
[EditUserRoles](#)<sup>147</sup>, [Index](#)<sup>148</sup>

### AdminController Constructor

**VB**

```
Public Sub New( _
    ByVal userManager As UserManager(Of User), _
    ByVal roleManager As RoleManager(Of IdentityRole) _
)
```

**C#**

```
public AdminController(
    UserManager<User> userManager,
    RoleManager<IdentityRole> roleManager
)
```

```
[C++]
public:
AdminController(
    UserManager<User^>^ userManager,
    RoleManager<IdentityRole^>^ roleManager
)
```

**[JScript]**

JScript does not support generic types and methods.

**Parameters**

*userManager*

*roleManager*

**See Also**

Applies to: [AdminController](#)<sub>142</sub>

**AdminController.CreateMultipleUsers Method****VB**

```
<HttpPost()> _
<ValidateAntiForgeryToken()> _
Public Function CreateMultipleUsers( _
    ByVal numberOfUsers As Integer _
) As Task(Of IActionResult)
```

**C#**

```
[HttpPost()]
[ValidateAntiForgeryToken()]
```

```
public Task<IActionResult> CreateMultipleUsers(
    int numberOfUsers
)
```

```
[C++]
[HttpPost()]
[ValidateAntiForgeryToken()]
public:
Task<IActionResult>^ CreateMultipleUsers(
    int numberOfUsers
)
```

```
[JScript]
JScript does not support generic types and methods.
```

### Parameters

*numberOfUsers*

### See Also

Applies to: [AdminController](#)<sub>142</sub>

## AdminController.DeleteAddedUsers Method

**VB**

```
<HttpPost()> _
<ValidateAntiForgeryToken()> _
Public Function DeleteAddedUsers() As Task(Of IActionResult)
```

**C#**

```
[HttpPost()]
[ValidateAntiForgeryToken()]
public Task<IActionResult> DeleteAddedUsers()
```

```
[C++]
[HttpPost()]
[ValidateAntiForgeryToken()]
public:
Task<IActionResult>^ DeleteAddedUsers()
```

```
[JScript]
```



JScript does not support generic types and methods.

## See Also

Applies to: [AdminController](#)<sub>142</sub>

## AdminController.DeleteUser Method

**VB**

```
Public Function DeleteUser( _  
    ByVal id As String _  
) As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> DeleteUser(  
    string id  
)
```

```
[C++]  
public:  
Task<IActionResult>^ DeleteUser(  
    String^ id  
)
```

**[JScript]**

JScript does not support generic types and methods.

## Parameters

*id*

## See Also

Applies to: [AdminController](#)<sub>142</sub>

## AdminController.DeleteUserConfirmed Method

**VB**

```
<HttpPost()> _  
<ValidateAntiForgeryToken()> _  
Public Function DeleteUserConfirmed( _  
    ByVal userId As String _  
) As Task(Of IActionResult)
```

**C#**

```
[HttpPost()]
[ValidateAntiForgeryToken()]
public Task<IActionResult> DeleteUserConfirmed(
    string userId
)
```

```
[C++]
[HttpPost()]
[ValidateAntiForgeryToken()]
public:
Task<IActionResult>^ DeleteUserConfirmed(
    String^ userId
)
```

**[JScript]**

JScript does not support generic types and methods.

## Parameters

*userId*

## See Also

Applies to: [AdminController](#)<sub>142</sub>

## AdminController.EditUser Method

**VB**

```
<HttpGet()> _
Public Function EditUser( _
    ByVal id As String _
) As Task(Of IActionResult)
```

**C#**

```
[HttpGet()]
public Task<IActionResult> EditUser(
    string id
)
```

```
[C++]
[HttpGet()]
```

```
public:  
Task<IActionResult> EditUser(  
    String^ id  
)
```

[JScript]

JScript does not support generic types and methods.

## Parameters

*id*

## See Also

Applies to: [AdminController](#)<sub>142</sub>

## AdminController.EditUserRoles Method

**VB**

```
<HttpPost()> _  
<ValidateAntiForgeryToken> _  
Public Function EditUserRoles( _  
    ByVal userId As String, _  
    ByVal selectedRole As String _  
) As Task(Of IActionResult)
```

**C#**

```
[HttpPost()]  
[ValidateAntiForgeryToken]  
public Task<IActionResult> EditUserRoles(  
    string userId,  
    string selectedRole  
)
```

```
[C++]  
[HttpPost()]  
[ValidateAntiForgeryToken]  
public:  
Task<IActionResult> EditUserRoles(  
    String^ userId,  
    String^ selectedRole  
)
```

[JScript]

JScript does not support generic types and methods.

## Parameters

*userId*

*selectedRole*

## See Also

Applies to: [AdminController](#)<sub>142</sub>

## AdminController.Index Method

**VB**

```
Public Function Index() As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> Index()
```

[C++]

```
public:  
Task<IActionResult^>^ Index()
```

[JScript]

JScript does not support generic types and methods.

## See Also

Applies to: [AdminController](#)<sub>142</sub>

## CollaborationController Class

**VB**

```
Public Class CollaborationController  
    Inherits Controller
```

**C#**

```
public class CollaborationController : Controller
```

```
[C++]
public ref class CollaborationController : public Controller^
```

```
[JScript]
public class CollaborationController
    extends Controller
```

## Requirements

**Namespace:** [MelodyCircle.Controllers](#)<sup>142</sup>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Constructors

[CollaborationController](#)<sup>149</sup>

## Methods

[Create](#)<sup>151</sup>, [Delete](#)<sup>151</sup>, [Edit](#)<sup>154</sup>, [Index](#)<sup>154</sup>

## CollaborationController Constructor

### VB

```
Public Sub New( _
    ByVal context As ApplicationDbContext _
)
```

### C#

```
public CollaborationController(
    ApplicationDbContext context
)
```

```
[C++]
public:
    CollaborationController(
        ApplicationDbContext^ context
    )
```

```
[JScript]
public function CollaborationController(
    context : ApplicationDbContext
);
```

## Parameters

*context*

## See Also

Applies to: [CollaborationController](#)<sub>148</sub>

## CollaborationController.Create (ICollection) Method

**VB**

```
<HttpPost()> _  
<ValidateAntiForgeryToken> _  
Public Function Create( _  
    ByVal collection As ICollection _  
) As ActionResult
```

**C#**

```
[HttpPost()]  
[ValidateAntiForgeryToken]  
public ActionResult Create(  
    ICollection collection  
)
```

```
[C++]  
[HttpPost()]  
[ValidateAntiForgeryToken]  
public:  
ActionResult^ Create(  
    ICollection^ collection  
)
```

```
[JScript]  
public  
    HttpPost()  
    ValidateAntiForgeryToken()  
function Create(  
    collection : ICollection  
) : ActionResult;
```

## Parameters

*collection*

## See Also

Applies to: [CollaborationController](#)<sub>148</sub>

## CollaborationController.Create Method

**VB**

```
Public Function Create() As ActionResult
```

**C#**

```
public ActionResult Create()
```

```
[C++]  
public:  
ActionResult^ Create()
```

```
[JScript]  
public function Create() : ActionResult;
```

### See Also

Applies to: [CollaborationController](#)<sub>148</sub>

## CollaborationController.Delete (Int32) Method

**VB**

```
Public Function Delete( _  
    ByVal id As Integer _  
) As ActionResult
```

**C#**

```
public ActionResult Delete(  
    int id  
)
```

```
[C++]  
public:  
ActionResult^ Delete(  
    int id  
)
```

```
[JScript]  
public function Delete(  
    id : int
```

```
) : ActionResult;
```

## Parameters

*id*

## See Also

Applies to: [CollaborationController](#)<sub>148</sub>

## CollaborationController.Delete (Int32, IFormCollection) Method

**VB**

```
<HttpPost()> _  
<ValidateAntiForgeryToken()> _  
Public Function Delete( _  
    ByVal id As Integer, _  
    ByVal collection As IFormCollection _  
) As ActionResult
```

**C#**

```
[HttpPost()]  
[ValidateAntiForgeryToken()]  
public ActionResult Delete(  
    int id,  
    IFormCollection collection  
)
```

```
[C++]  
[HttpPost()]  
[ValidateAntiForgeryToken()]  
public:  
ActionResult^ Delete(  
    int id,  
    IFormCollection^ collection  
)
```

```
[JScript]  
public  
    HttpPost()  
    ValidateAntiForgeryToken()  
function Delete(  
    id : int,  
    collection : IFormCollection  
) : ActionResult;
```



## Parameters

*id*

*collection*

## See Also

Applies to: [CollaborationController](#)<sub>148</sub>

## CollaborationController.Edit (Int32, ICollection) Method

**VB**

```
<HttpPost()> _  
<ValidateAntiForgeryToken()> _  
Public Function Edit( _  
    ByVal id As Integer, _  
    ByVal collection As ICollection _  
) As ActionResult
```

**C#**

```
[HttpPost()]  
[ValidateAntiForgeryToken()]  
public ActionResult Edit(  
    int id,  
    ICollection collection  
)
```

```
[C++]  
[HttpPost()]  
[ValidateAntiForgeryToken()]  
public:  
ActionResult^ Edit(  
    int id,  
    ICollection^ collection  
)
```

```
[JScript]  
public  
    HttpPost()  
    ValidateAntiForgeryToken()  
function Edit(  
    id : int,  
    collection : ICollection  
) : ActionResult;
```

## Parameters

*id*

*collection*

## See Also

Applies to: [CollaborationController](#)<sub>148</sub>

## CollaborationController.Edit (Int32) Method

**VB**

```
Public Function Edit( _  
    ByVal id As Integer _  
) As ActionResult
```

**C#**

```
public ActionResult Edit(  
    int id  
)
```

```
[C++]  
public:  
ActionResult^ Edit(  
    int id  
)
```

```
[JScript]  
public function Edit(  
    id : int  
) : ActionResult;
```

## Parameters

*id*

## See Also

Applies to: [CollaborationController](#)<sub>148</sub>

## CollaborationController.Index Method

**VB**

```
Public Function Index() As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> Index()
```

**[C++]**

```
public:  
Task<IActionResult>^ Index()
```

**[JScript]**

JScript does not support generic types and methods.

**See Also**

Applies to: [CollaborationController](#)<sub>148</sub>

**HomeController Class****VB**

```
Public Class HomeController  
    Inherits Controller
```

**C#**

```
public class HomeController : Controller
```

**[C++]**

```
public ref class HomeController : public Controller^
```

**[JScript]**

```
public class HomeController  
    extends Controller
```

**Requirements**

**Namespace:** [MelodyCircle.Controllers](#)<sub>142</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

**Constructors**

[HomeController](#)<sub>156</sub>

**Methods**

[Error](#)<sub>156</sub>, [Index](#)<sub>157</sub>, [Privacy](#)<sub>157</sub>

## HomeController Constructor

**VB**

```
Public Sub New( _  
    ByVal logger As ILogger(Of HomeController) _  
)
```

**C#**

```
public HomeController(  
    ILogger<HomeController> logger  
)
```

```
[C++]  
public:  
HomeController(  
    ILogger<HomeController^>^ logger  
)
```

```
[JScript]  
JScript does not support generic types and methods.
```

### Parameters

*logger*

### See Also

Applies to: [HomeController](#)<sub>155</sub>

## HomeController.Error Method

**VB**

```
<ResponseCache(Duration = 0, Location = ResponseCacheLocation.None, NoStore =  
true)> _  
Public Function Error() As IActionResult
```

**C#**

```
[ResponseCache(Duration = 0, Location = ResponseCacheLocation.None, NoStore =  
true)]  
public IActionResult Error()
```

```
[C++]
[ResponseCache(Duration = 0, Location = ResponseCacheLocation.None, NoStore =
true)]
public:
ActionResult^ Error()
```

```
[JScript]
public
    ResponseCache(Duration = 0, Location = ResponseCacheLocation.None, NoStore =
true)
function Error() : IActionResult;
```

## See Also

Applies to: [HomeController](#)<sub>155</sub>

## HomeController.Index Method

**VB**

```
Public Function Index() As IActionResult
```

**C#**

```
public IActionResult Index()
```

```
[C++]
public:
ActionResult^ Index()
```

```
[JScript]
public function Index() : IActionResult;
```

## See Also

Applies to: [HomeController](#)<sub>155</sub>

## HomeController.Privacy Method

**VB**

```
<Authorize(Roles = "Admin")> _
Public Function Privacy() As IActionResult
```

**C#**

```
[Authorize(Roles = "Admin")]  
public IActionResult Privacy()
```

```
[C++]  
[Authorize(Roles = "Admin")]  
public:  
IActionResult^ Privacy()
```

```
[JScript]  
public  
    Authorize(Roles = "Admin")  
function Privacy() : IActionResult;
```

**See Also**

Applies to: [HomeController](#)<sub>155</sub>

**SearchController Class****VB**

```
Public Class SearchController  
    Inherits Controller
```

**C#**

```
public class SearchController : Controller
```

```
[C++]  
public ref class SearchController : public Controller^
```

```
[JScript]  
public class SearchController  
    extends Controller
```

**Requirements**

**Namespace:** [MelodyCircle.Controllers](#)<sub>142</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Constructors

[SearchController](#)<sub>159</sub>

## Methods

[Index](#)<sub>159</sub>, [Search](#)<sub>160</sub>

### SearchController Constructor

**VB**

```
Public Sub New( _  
    ByVal context As ApplicationDbContext _  
)
```

**C#**

```
public SearchController(  
    ApplicationDbContext context  
)
```

```
[C++]  
public:  
SearchController(  
    ApplicationDbContext^ context  
)
```

```
[JScript]  
public function SearchController(  
    context : ApplicationDbContext  
);
```

## Parameters

*context*

## See Also

Applies to: [SearchController](#)<sub>158</sub>

### SearchController.Index Method

**VB**

```
Public Function Index() As IActionResult
```

**C#**

```
public IActionResult Index()
```

**[C++]**

```
public:  
IActionResult^ Index()
```

**[JScript]**

```
public function Index() : IActionResult;
```

## See Also

Applies to: [SearchController](#)<sub>158</sub>

## SearchController.Search Method

**VB**

```
<HttpPost()> _  
Public Function Search( _  
    ByVal search As Search _  
) As Task(Of IActionResult)
```

**C#**

```
[HttpPost()]  
public Task<IActionResult> Search(  
    Search search  
)
```

**[C++]**

```
[HttpPost()]  
public:  
Task<IActionResult>^ Search(  
    Search^ search  
)
```

**[JScript]**

JScript does not support generic types and methods.

## Parameters

*search*



## See Also

Applies to: [SearchController](#)<sub>158</sub>

## StepController Class

**VB**

```
Public Class StepController
    Inherits Controller
```

**C#**

```
public class StepController : Controller
```

**[C++]**

```
public ref class StepController : public Controller^
```

**[JScript]**

```
public class StepController
    extends Controller
```

## Requirements

**Namespace:** [MelodyCircle.Controllers](#)<sub>142</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Constructors

[StepController](#)<sub>161</sub>

## Methods

[Create](#)<sub>162</sub>, [Delete](#)<sub>164</sub>, [DeleteConfirmed](#)<sub>164</sub>, [Edit](#)<sub>165</sub>, [Index](#)<sub>167</sub>

## StepController Constructor

**VB**

```
Public Sub New( _
    ByVal context As ApplicationDbContext _
)
```

**C#**

```
public StepController(
```

```
ApplicationDbContext context  
)
```

```
[C++]  
public:  
StepController(  
    ApplicationDbContext^ context  
)
```

```
[JScript]  
public function StepController(  
    context : ApplicationDbContext  
);
```

## Parameters

*context*

## See Also

Applies to: [StepController](#)<sub>161</sub>

## StepController.Create (Nullable<Guid>) Method

**VB**

```
Public Function Create( _  
    ByVal tutorialId As Nullable(Of Guid) _  
) As IActionResult
```

**C#**

```
public IActionResult Create(  
    Nullable<Guid> tutorialId  
)
```

```
[C++]  
public:  
IActionResult^ Create(  
    Nullable<Guid^> tutorialId  
)
```

```
[JScript]  
JScript does not support generic types and methods.
```

## Parameters

*tutorialId*

## See Also

Applies to: [StepController](#)<sub>161</sub>

## StepController.Create (Step) Method

**VB**

```
<HttpPost()> _  
<ValidateAntiForgeryToken()> _  
Public Function Create( _  
    <Bind("TutorialId,Title,Content,Order")> _  
    ByVal step As Step _  
) As Task(Of IActionResult)
```

**C#**

```
[HttpPost()]  
[ValidateAntiForgeryToken()]  
public Task<IActionResult> Create(  
    [Bind("TutorialId,Title,Content,Order")]  
    Step step  
)
```

```
[C++]  
[HttpPost()]  
[ValidateAntiForgeryToken()]  
public:  
Task<IActionResult>^ Create(  
    [Bind("TutorialId,Title,Content,Order")]  
    Step^ step  
)
```

**[JScript]**

JScript does not support generic types and methods.

## Parameters

*step*

## See Also

Applies to: [StepController](#)<sub>161</sub>

## StepController.Delete Method

**VB**

```
Public Function Delete( _  
    ByVal id As Nullable(Of Guid) _  
    ) As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> Delete(  
    Nullable<Guid> id  
)
```

```
[C++]  
public:  
Task<IActionResult> Delete(  
    Nullable<Guid> id  
)
```

**[JScript]**

JScript does not support generic types and methods.

### Parameters

*id*

### See Also

Applies to: [StepController](#)<sub>161</sub>

## StepController.DeleteConfirmed Method

**VB**

```
<HttpPost()> _  
<ValidateAntiForgeryToken()> _  
Public Function DeleteConfirmed( _  
    ByVal stepId As Guid _  
    ) As Task(Of IActionResult)
```

**C#**

```
[HttpPost()]  
[ValidateAntiForgeryToken()]  
public Task<IActionResult> DeleteConfirmed(  
    Guid stepId  
)
```

```
[C++]
[HttpPost()]
[ValidateAntiForgeryToken()]
public:
Task<IActionResult> DeleteConfirmed(
    Guid stepId
)
```

```
[JScript]
JScript does not support generic types and methods.
```

### Parameters

*stepId*

### See Also

Applies to: [StepController](#)<sub>161</sub>

## StepController.Edit (Nullable<Guid>) Method

**VB**

```
Public Function Edit( _
    ByVal id As Nullable(Of Guid) _
) As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> Edit(
    Nullable<Guid> id
)
```

```
[C++]
public:
Task<IActionResult> Edit(
    Nullable<Guid> id
)
```

```
[JScript]
JScript does not support generic types and methods.
```

### Parameters

*id*

## See Also

Applies to: [StepController](#)<sub>161</sub>

## StepController.Edit (Guid, Step) Method

### VB

```

<HttpPost()> _
<ValidateAntiForgeryToken()> _
Public Function Edit( _
    ByVal tutorialId As Guid, _
    <Bind("Id,TutorialId,Title,Content,Order")> _
    ByVal step As Step _
) As Task(Of IActionResult)

```

### C#

```

[HttpPost()]
[ValidateAntiForgeryToken()]
public Task<IActionResult> Edit(
    Guid tutorialId,
    [Bind("Id,TutorialId,Title,Content,Order")]
    Step step
)

```

```

[C++]
[HttpPost()]
[ValidateAntiForgeryToken()]
public:
    Task<IActionResult^> Edit(
        Guid tutorialId,
        [Bind("Id,TutorialId,Title,Content,Order")]
        Step^ step
    )

```

### [JScript]

JScript does not support generic types and methods.

## Parameters

*tutorialId**step*

## See Also

Applies to: [StepController](#)<sub>161</sub>

## StepController.Index Method

**VB**

```
Public Function Index( _  
    ByVal tutorialId As Nullable(Of Guid) _  
) As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> Index(  
    Nullable<Guid> tutorialId  
)
```

```
[C++]  
public:  
Task<IActionResult>^ Index(  
    Nullable<Guid> tutorialId  
)
```

```
[JScript]  
JScript does not support generic types and methods.
```

### Parameters

*tutorialId*

### See Also

Applies to: [StepController](#)<sub>161</sub>

## SubscribeTutorialController Class

**VB**

```
Public Class SubscribeTutorialController  
    Inherits Controller
```

**C#**

```
public class SubscribeTutorialController : Controller
```

```
[C++]  
public ref class SubscribeTutorialController : public Controller^
```

```
[JScript]  
public class SubscribeTutorialController  
    extends Controller
```

## Requirements

**Namespace:** [MelodyCircle.Controllers](#)<sub>142</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Constructors

[SubscribeTutorialController](#)<sub>168</sub>

## Methods

[MyTutorials](#)<sub>169</sub>, [RemoveSubscription](#)<sub>169</sub>, [Subscribe](#)<sub>170</sub>, [SubscribeConfirmation](#)<sub>171</sub>

## SubscribeTutorialController Constructor

### VB

```
Public Sub New(  
    ByVal context As ApplicationDbContext, _  
    ByVal userManager As UserManager(Of User) _  
)
```

### C#

```
public SubscribeTutorialController(  
    ApplicationDbContext context,  
    UserManager<User> userManager  
)
```

```
[C++]  
public:  
SubscribeTutorialController(  
    ApplicationDbContext^ context,  
    UserManager<User^>^ userManager  
)
```

```
[JScript]  
JScript does not support generic types and methods.
```



## Parameters

*context*

*userManager*

## See Also

Applies to: [SubscribeTutorialController](#)<sub>167</sub>

## SubscribeTutorialController.MyTutorials Method

**VB**

```
<Authorize()> _  
Public Function MyTutorials() As Task(Of IActionResult)
```

**C#**

```
[Authorize()]  
public Task<IActionResult> MyTutorials()
```

```
[C++]  
[Authorize()]  
public:  
Task<IActionResult^> MyTutorials()
```

**[JScript]**

JScript does not support generic types and methods.

## See Also

Applies to: [SubscribeTutorialController](#)<sub>167</sub>

## SubscribeTutorialController.RemoveSubscription Method

**VB**

```
<HttpPost()> _  
<ValidateAntiForgeryToken()> _  
<Authorize()> _  
Public Function RemoveSubscription( _  
    ByVal id As Guid _  
) As Task(Of IActionResult)
```

**C#**

```
[HttpPost()]
[ValidateAntiForgeryToken()]
[Authorize()]
public Task<IActionResult> RemoveSubscription(
    Guid id
)
```

```
[C++]
[HttpPost()]
[ValidateAntiForgeryToken()]
[Authorize()]
public:
Task<IActionResult>^ RemoveSubscription(
    Guid id
)
```

**[JScript]**  
JScript does not support generic types and methods.

## Parameters

*id*

## See Also

Applies to: [SubscribeTutorialController](#)<sub>167</sub>

## SubscribeTutorialController.Subscribe Method

**VB**

```
<HttpPost()> _
<ValidateAntiForgeryToken()> _
<Authorize()> _
Public Function Subscribe( _
    ByVal tutorialId As Guid _
) As Task(Of IActionResult)
```

**C#**

```
[HttpPost()]
[ValidateAntiForgeryToken()]
[Authorize()]
public Task<IActionResult> Subscribe(
    Guid tutorialId
)
```

```
[C++]
[HttpPost()]
[ValidateAntiForgeryToken()]
[Authorize()]
public:
Task<IActionResult>^ Subscribe(
    Guid tutorialId
)
```

```
[JScript]
JScript does not support generic types and methods.
```

## Parameters

*tutorialId*

## See Also

Applies to: [SubscribeTutorialController](#)<sub>167</sub>

## SubscribeTutorialController.SubscribeConfirmation Method

**VB**

```
<HttpGet()> _
Public Function SubscribeConfirmation( _
    ByVal tutorialId As Guid _
) As IActionResult
```

**C#**

```
[HttpGet()]
public IActionResult SubscribeConfirmation(
    Guid tutorialId
)
```

```
[C++]
[HttpGet()]
public:
IActionResult^ SubscribeConfirmation(
    Guid tutorialId
)
```

```
[JScript]
public
HttpGet()
```

```
function SubscribeConfirmation(  
    tutorialId : Guid  
) : IActionResult;
```

## Parameters

*tutorialId*

## See Also

Applies to: [SubscribeTutorialController](#)<sub>167</sub>

## TutorialController Class

**VB**

```
<Authorize()> _  
Public Class TutorialController  
    Inherits Controller
```

**C#**

```
[Authorize()]  
public class TutorialController : Controller
```

```
[C++]  
[Authorize()]  
public ref class TutorialController : public Controller^
```

```
[JScript]  
public  
    Authorize()  
class TutorialController  
    extends Controller
```

## Requirements

**Namespace:** [MelodyCircle.Controllers](#)<sub>142</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Constructors

[TutorialController](#)<sub>173</sub>

## Methods

[AddStep](#)<sub>173</sub>, [Create](#)<sub>175</sub>, [Delete](#)<sub>176</sub>, [DeleteConfirmed](#)<sub>176</sub>, [Edit](#)<sub>178</sub>, [EditMode](#)<sub>179</sub>, [Index](#)<sub>179</sub>, [ViewMode](#)<sub>180</sub>

## TutorialController Constructor

**VB**

```
Public Sub New( _  
    ByVal context As ApplicationDbContext, _  
    ByVal userManager As UserManager(Of User) _  
)
```

**C#**

```
public TutorialController(  
    ApplicationDbContext context,  
    UserManager<User> userManager  
)
```

```
[C++]  
public:  
TutorialController(  
    ApplicationDbContext^ context,  
    UserManager<User^>^ userManager  
)
```

**[JScript]**

JScript does not support generic types and methods.

### Parameters

*context*

*userManager*

### See Also

Applies to: [TutorialController](#)<sub>172</sub>

## TutorialController.AddStep Method

**VB**

```
Public Function AddStep( _  
    ByVal id As Guid _  
) As IActionResult
```

**C#**

```
public IActionResult AddStep(
```

```

    Guid id
)

```

```

[C++]
public:
IActionResult^ AddStep(
    Guid id
)

```

```

[JScript]
public function AddStep(
    id : Guid
) : IActionResult;

```

## Parameters

*id*

## See Also

Applies to: [TutorialController](#)<sub>172</sub>

## TutorialController.Create (Tutorial, IFormFile) Method

### VB

```

<HttpPost()> _
<ValidateAntiForgeryToken()> _
Public Function Create( _
    <Bind("Title,Description")> _
    ByVal tutorial As Tutorial, _
    ByVal photo As IFormFile _
) As Task(Of IActionResult)

```

### C#

```

[HttpPost()]
[ValidateAntiForgeryToken()]
public Task<IActionResult> Create(
    [Bind("Title,Description")]
    Tutorial tutorial,
    IFormFile photo
)

```

```

[C++]
[HttpPost()]

```

```
[ValidateAntiForgeryToken()]
public:
    Task<IActionResult> Create(
        [Bind("Title,Description")]
        Tutorial^ tutorial,
        IFormFile^ photo
    )
```

```
[JScript]
JScript does not support generic types and methods.
```

## Parameters

*tutorial*

*photo*

## See Also

Applies to: [TutorialController](#)<sub>172</sub>

## TutorialController.Create Method

**VB**

```
Public Function Create() As IActionResult
```

**C#**

```
public IActionResult Create()
```

```
[C++]
public:
    IActionResult Create()
```

```
[JScript]
public function Create() : IActionResult;
```

## See Also

Applies to: [TutorialController](#)<sub>172</sub>

## TutorialController.Delete Method

**VB**

```
Public Function Delete( _
    ByVal id As Nullable(Of Guid) _
) As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> Delete(
    Nullable<Guid> id
)
```

```
[C++]
public:
Task<IActionResult^> Delete(
    Nullable<Guid^> id
)
```

**[JScript]**

JScript does not support generic types and methods.

### Parameters

*id*

### See Also

Applies to: [TutorialController](#)<sub>172</sub>

## TutorialController.DeleteConfirmed Method

**VB**

```
<HttpPost()> _
<ActionName("Delete")> _
<ValidateAntiForgeryToken()> _
Public Function DeleteConfirmed( _
    ByVal id As Guid _
) As Task(Of IActionResult)
```

**C#**

```
[HttpPost()]
[ActionName("Delete")]
[ValidateAntiForgeryToken()]
public Task<IActionResult> DeleteConfirmed(
```



```

    Guid id
)

```

```

[C++]
[HttpPost()]
[ActionName("Delete")]
[ValidateAntiForgeryToken()]
public:
Task<IActionResult> DeleteConfirmed(
    Guid id
)

```

```

[JScript]
JScript does not support generic types and methods.

```

## Parameters

*id*

## See Also

Applies to: [TutorialController](#)<sub>172</sub>

## TutorialController.Edit (Guid, Tutorial, IFormFile) Method

### VB

```

<HttpPost()> _
<ValidateAntiForgeryToken()> _
Public Function Edit( _
    ByVal id As Guid, _
    <Bind("Id,Title,Description,Creator")> _
    ByVal tutorial As Tutorial, _
    ByVal image As IFormFile _
) As Task(Of IActionResult)

```

### C#

```

[HttpPost()]
[ValidateAntiForgeryToken()]
public Task<IActionResult> Edit(
    Guid id,
    [Bind("Id,Title,Description,Creator")]
    Tutorial tutorial,
    IFormFile image
)

```

```
[C++]
[HttpPost()]
[ValidateAntiForgeryToken()]
public:
Task<IActionResult>^ Edit(
    Guid id,
    [Bind("Id,Title,Description,Creator")]
    Tutorial^ tutorial,
    IFormFile^ image
)
```

**[JScript]**

JScript does not support generic types and methods.

**Parameters**

*id*

*tutorial*

*image*

**See Also**

Applies to: [TutorialController](#)<sub>172</sub>

**TutorialController.Edit (Nullable<Guid>) Method****VB**

```
Public Function Edit( _
    ByVal id As Nullable(Of Guid) _
) As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> Edit(
    Nullable<Guid> id
)
```

```
[C++]
public:
Task<IActionResult>^ Edit(
    Nullable<Guid^> id
)
```

**[JScript]**

JScript does not support generic types and methods.

**Parameters**

*id*

**See Also**

Applies to: [TutorialController](#)<sub>172</sub>

**TutorialController.EditMode Method****VB**

```
Public Function EditMode() As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> EditMode()
```

**[C++]**

```
public:  
Task<IActionResult^> EditMode()
```

**[JScript]**

JScript does not support generic types and methods.

**See Also**

Applies to: [TutorialController](#)<sub>172</sub>

**TutorialController.Index Method****VB**

```
Public Function Index() As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> Index()
```

```
[C++]  
public:  
Task<IActionResult>^ Index()
```

```
[JScript]  
JScript does not support generic types and methods.
```

## See Also

Applies to: [TutorialController](#)<sub>172</sub>

## TutorialController.ViewMode Method

**VB**

```
Public Function ViewMode() As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> ViewMode()
```

```
[C++]  
public:  
Task<IActionResult>^ ViewMode()
```

```
[JScript]  
JScript does not support generic types and methods.
```

## See Also

Applies to: [TutorialController](#)<sub>172</sub>

## UserController Class

**VB**

```
Public Class UserController  
Inherits Controller
```

**C#**

```
public class UserController : Controller
```

```
[C++]
public ref class UserController : public Controller^
```

```
[JScript]
public class UserController
    extends Controller
```

## Requirements

**Namespace:** [MelodyCircle.Controllers](#)<sub>142</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Constructors

[UserController](#)<sub>181</sub>

## Methods

[AddConnection](#)<sub>182</sub>, [AddMusicCard](#)<sub>183</sub>, [EditMusicCard](#)<sub>183</sub>, [Index](#)<sub>184</sub>, [ListConnections](#)<sub>185</sub>, [Profile](#)<sub>185</sub>,  
[PutProfilePicture](#)<sub>186</sub>, [RateUser](#)<sub>187</sub>, [RemoveConnection](#)<sub>188</sub>, [RemoveMusicCard](#)<sub>189</sub>, [ViewRatings](#)<sub>189</sub>

## UserController Constructor

### VB

```
Public Sub New( _
    ByVal userManager As UserManager(Of User), _
    ByVal context As ApplicationDbContext _
)
```

### C#

```
public UserController(
    UserManager<User> userManager,
    ApplicationDbContext context
)
```

```
[C++]
public:
UserController(
    UserManager<User^>^ userManager,
    ApplicationDbContext^ context
)
```

```
[JScript]
JScript does not support generic types and methods.
```

## Parameters

*userManager*

*context*

## See Also

Applies to: [UserController](#)<sub>180</sub>

## UserController.AddConnection Method

Action for adding a new connection of a user. Checks for user existence, connection existence.

Redirects to profile of added user.

### VB

```
<HttpPost()> _  
Public Function AddConnection( _  
    ByVal id As String _  
) As Task(Of IActionResult)
```

### C#

```
[HttpPost()]  
public Task<IActionResult> AddConnection(  
    string id  
)
```

```
[C++]  
[HttpPost()]  
public:  
Task<IActionResult>^ AddConnection(  
    String^ id  
)
```

### [JScript]

JScript does not support generic types and methods.

## Parameters

*id*

## See Also

Applies to: [UserController](#)<sub>180</sub>

## UserController.AddMusicCard Method

**VB**

```
<HttpPost()> _  
Public Function AddMusicCard( _  
    ByVal id As String, _  
    ByVal musicUri As String _  
) As Task(Of IActionResult)
```

**C#**

```
[HttpPost()]  
public Task<IActionResult> AddMusicCard(  
    string id,  
    string musicUri  
)
```

```
[C++]  
[HttpPost()]  
public:  
Task<IActionResult>^ AddMusicCard(  
    String^ id,  
    String^ musicUri  
)
```

**[JScript]**

JScript does not support generic types and methods.

### Parameters

*id*

*musicUri*

### See Also

Applies to: [UserController](#)<sub>180</sub>

## UserController.EditMusicCard Method

**VB**

```
<HttpPost()> _  
Public Function EditMusicCard( _  
    ByVal uri As String, _  
    ByVal newMusicUri As String _  
) As Task(Of IActionResult)
```

**C#**

```
[HttpPost()]
public Task<IActionResult> EditMusicCard(
    string uri,
    string newMusicUri
)
```

```
[C++]
[HttpPost()]
public:
Task<IActionResult>^ EditMusicCard(
    String^ uri,
    String^ newMusicUri
)
```

**[JScript]**

JScript does not support generic types and methods.

**Parameters***uri**newMusicUri***See Also**

Applies to: [UserController](#)<sub>180</sub>

**UserController.Index Method**

Return the index of all users list.

**VB**

```
Public Function Index() As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> Index()
```

```
[C++]
public:
Task<IActionResult>^ Index()
```



**[JScript]**

JScript does not support generic types and methods.

## See Also

Applies to: [UserController](#)<sub>180</sub>

## UserController.ListConnections Method

Lists all user's connections. Checks for user existence and list's connections. Displays a list of connections.

**VB**

```
Public Function ListConnections( _  
    ByVal id As String _  
) As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> ListConnections(  
    string id  
)
```

**[C++]**

```
public:  
Task<IActionResult>^ ListConnections(  
    String^ id  
)
```

**[JScript]**

JScript does not support generic types and methods.

## Parameters

*id*

## See Also

Applies to: [UserController](#)<sub>180</sub>

## UserController.Profile Method

Action for checking user profile by param (Username). Displays the profile of the user. Finds user by username, checks if exists.

**VB**

```
Public Function Profile( _  
    ByVal id As String _  
) As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> Profile(  
    string id  
)
```

```
[C++]  
public:  
Task<IActionResult> Profile(  
    String^ id  
)
```

**[JScript]**

JScript does not support generic types and methods.

## Parameters

*id*

## See Also

Applies to: [UserController](#)<sub>180</sub>

## UserController.PutProfilePicture Method

Insert a new profile picture on the editing user's profile. Checks for picture's format, transforms it into an array of bytes. Redirects to profile of logged user.

**VB**

```
<HttpPost()> _  
Public Function PutProfilePicture( _  
    ByVal id As String, _  
    ByVal profilePicture As IFormFile _  
) As Task(Of IActionResult)
```

**C#**

```
[HttpPost()]  
public Task<IActionResult> PutProfilePicture(  
    string id,  
    IFormFile profilePicture  
)
```

```
[C++]
[HttpPost()]
public:
Task<IActionResult>^ PutProfilePicture(
    String^ id,
    IFormFile^ profilePicture
)
```

```
[JScript]
JScript does not support generic types and methods.
```

## Parameters

*id*

*profilePicture*

## See Also

Applies to: [UserController](#)<sub>180</sub>

## UserController.RateUser Method

Action for rating a user's profile. Checks existence of user and if rating is between 0 and 10 (included). A User cannot rate multiple times, if rating already exists, then it updates said rating. Redirects to profile of rated user.

**VB**

```
Public Function RateUser( _
    ByVal id As String, _
    ByVal rating As Integer _
) As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> RateUser(
    string id,
    int rating
)
```

```
[C++]
public:
Task<IActionResult>^ RateUser(
    String^ id,
    int rating
)
```

```
)
```

**[JScript]**

JScript does not support generic types and methods.

**Parameters**

*id*

*rating*

**See Also**

Applies to: [UserController](#)<sub>180</sub>

**UserController.RemoveConnection Method**

Action for removing an existing connection of a user. Checks for user existence, connection existence. Redirects to profile of removed user.

**VB**

```
Public Function RemoveConnection( _  
    ByVal id As String _  
) As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> RemoveConnection(  
    string id  
)
```

**[C++]**

```
public:  
Task<IActionResult>^ RemoveConnection(  
    String^ id  
)
```

**[JScript]**

JScript does not support generic types and methods.

**Parameters**

*id*

## See Also

Applies to: [UserController](#)<sub>180</sub>

## UserController.RemoveMusicCard Method

**VB**

```
<HttpPost()> _  
Public Function RemoveMusicCard( _  
    ByVal uri As String _  
) As Task(Of IActionResult)
```

**C#**

```
[HttpPost()]  
public Task<IActionResult> RemoveMusicCard(  
    string uri  
)
```

```
[C++]  
[HttpPost()]  
public:  
Task<IActionResult>^ RemoveMusicCard(  
    String^ uri  
)
```

**[JScript]**

JScript does not support generic types and methods.

## Parameters

*uri*

## See Also

Applies to: [UserController](#)<sub>180</sub>

## UserController.ViewRatings Method

Listing of all rating by user.

**VB**

```
Public Function ViewRatings( _  
    ByVal id As Guid _  
) As Task(Of IActionResult)
```

**C#**

```
public Task<IActionResult> ViewRatings(  
    Guid id  
)
```

```
[C++]  
public:  
Task<IActionResult>^ ViewRatings(  
    Guid id  
)
```

**[JScript]**

JScript does not support generic types and methods.

**Parameters**

*id*

**See Also**

Applies to: [UserController](#)<sub>180</sub>

## MelodyCircle.Data Namespace

### Classes

[ApplicationDbContext](#)<sup>191</sup>, [DataSeeder](#)<sup>196</sup>

### ApplicationDbContext Class

**VB**

```
Public Class ApplicationDbContext
    Inherits IdentityDbContext(Of User)
```

**C#**

```
public class ApplicationDbContext : IdentityDbContext<User>
```

**[C++]**

```
public ref class ApplicationDbContext : public IdentityDbContext<User^>^
```

**[JScript]**

JScript does not support generic types and methods.

### Requirements

**Namespace:** [MelodyCircle.Data](#)<sup>191</sup>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

### Constructors

[ApplicationDbContext](#)<sup>191</sup>

### Properties

[Collaborations](#)<sup>192</sup>, [Steps](#)<sup>193</sup>, [SubscribeTutorials](#)<sup>193</sup>, [Tutorials](#)<sup>194</sup>, [UserRating](#)<sup>194</sup>, [Users](#)<sup>195</sup>

### Methods

[OnModelCreating](#)<sup>196</sup>

### ApplicationDbContext Constructor

**VB**

```
Public Sub New( _
    ByVal options As DbContextOptions(Of ApplicationDbContext) _
)
```

**C#**

```
public ApplicationDbContext(
    DbContextOptions<ApplicationDbContext> options
)
```

```
[C++]
public:
ApplicationDbContext(
    DbContextOptions<ApplicationDbContext^>^ options
)
```

```
[JScript]
JScript does not support generic types and methods.
```

**Parameters***options***See Also**Applies to: [ApplicationDbContext](#)<sub>191</sub>**ApplicationDbContext.Collaborations Property****VB**

```
Public Property Collaborations() As DbSet(Of Collaboration)
```

**C#**

```
public DbSet<Collaboration> Collaborations {get; set;}
```

```
[C++]
public:
property DbSet<Collaboration^>^ Collaborations {
    DbSet<Collaboration^>^ get( );
    void set(
        DbSet<Collaboration^>^ value
    );
}
```

```
[JScript]
JScript does not support generic types and methods.
```



## See Also

Applies to: [ApplicationDbContext](#)<sup>191</sup>

## ApplicationDbContext.Steps Property

**VB**

```
Public Property Steps() As DbSet(Of Step)
```

**C#**

```
public DbSet<Step> Steps {get; set;}
```

```
[C++]
public:
property DbSet<Step^> Steps {
    DbSet<Step^> get( );
    void set(
        DbSet<Step^> value
    );
}
```

**[JScript]**

JScript does not support generic types and methods.

## See Also

Applies to: [ApplicationDbContext](#)<sup>191</sup>

## ApplicationDbContext.SubscribeTutorials Property

**VB**

```
Public Property SubscribeTutorials() As DbSet(Of SubscribeTutorial)
```

**C#**

```
public DbSet<SubscribeTutorial> SubscribeTutorials {get; set;}
```

```
[C++]
public:
property DbSet<SubscribeTutorial^> SubscribeTutorials {
    DbSet<SubscribeTutorial^> get( );
    void set(
```

```
        DbSet<SubscribeTutorial^>^ value  
    );  
}
```

**[JScript]**

JScript does not support generic types and methods.

**See Also**

Applies to: [ApplicationDbContext](#)<sub>191</sub>

**ApplicationDbContext.Tutorials Property****VB**

```
Public Property Tutorials() As DbSet(Of Tutorial)
```

**C#**

```
public DbSet<Tutorial> Tutorials {get; set;}
```

**[C++]**

```
public:  
property DbSet<Tutorial^>^ Tutorials {  
    DbSet<Tutorial^>^ get( );  
    void set(  
        DbSet<Tutorial^>^ value  
    );  
}
```

**[JScript]**

JScript does not support generic types and methods.

**See Also**

Applies to: [ApplicationDbContext](#)<sub>191</sub>

**ApplicationDbContext.UserRating Property****VB**

```
Public Property UserRating() As DbSet(Of UserRating)
```

**C#**

```
public DbSet<UserRating> UserRating {get; set;}
```

```
[C++]
public:
property DbSet<UserRating^>^ UserRating {
    DbSet<UserRating^>^ get( );
    void set(
        DbSet<UserRating^>^ value
    );
}
```

**[JScript]**

JScript does not support generic types and methods.

**See Also**

Applies to: [ApplicationDbContext](#)<sub>191</sub>

**ApplicationDbContext.Users Property****VB**

```
Public Property Users() As DbSet(Of User)
```

**C#**

```
public DbSet<User> Users {get; set;}
```

```
[C++]
public:
property DbSet<User^>^ Users {
    DbSet<User^>^ get( );
    void set(
        DbSet<User^>^ value
    );
}
```

**[JScript]**

JScript does not support generic types and methods.

**See Also**

Applies to: [ApplicationDbContext](#)<sub>191</sub>

## ApplicationDbContext.OnModelCreating Method

**VB**

```
Protected Overrides Sub OnModelCreating( _  
    ByVal modelBuilder As ModelBuilder _  
)
```

**C#**

```
protected override void OnModelCreating(  
    ModelBuilder modelBuilder  
)
```

```
[C++]  
protected:  
void OnModelCreating(  
    ModelBuilder^ modelBuilder  
)
```

```
[JScript]  
protected function OnModelCreating(  
    modelBuilder : ModelBuilder  
);
```

### Parameters

*modelBuilder*

### See Also

Applies to: [ApplicationDbContext](#)<sup>191</sup>

## DataSeeder Class

**VB**

```
Public Class DataSeeder
```

**C#**

```
public class DataSeeder
```

```
[C++]  
public ref class DataSeeder
```

```
[JScript]
public class DataSeeder
```

## Requirements

**Namespace:** [MelodyCircle.Data](#)<sup>191</sup>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Methods

[SeedData](#)<sup>197</sup>

## DataSeeder.SeedData Method

**VB**

```
Public Shared Function SeedData( _
    ByVal context As ApplicationDbContext, _
    ByVal userManager As UserManager(Of User), _
    ByVal roleManager As RoleManager(Of IdentityRole) _
) As Task
```

**C#**

```
public static Task SeedData(
    ApplicationDbContext context,
    UserManager<User> userManager,
    RoleManager<IdentityRole> roleManager
)
```

```
[C++]
public:
static Task^ SeedData(
    ApplicationDbContext^ context,
    UserManager<User^>^ userManager,
    RoleManager<IdentityRole^>^ roleManager
)
```

```
[JScript]
JScript does not support generic types and methods.
```

## Parameters

*context*

*userManager*

*roleManager*

## See Also

Applies to: [DataSeeder](#)<sub>196</sub>

## MelodyCircle.ExtensionMethods Namespace

### Classes

[RatingExtensions](#)<sub>199</sub>

### RatingExtensions Class

**VB**

```
Public Class RatingExtensions
```

**C#**

```
public static class RatingExtensions
```

**[C++]**

```
public ref class RatingExtensions
```

**[JScript]**

```
public class RatingExtensions
```

### Requirements

**Namespace:** [MelodyCircle.ExtensionMethods](#)<sub>199</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

### Methods

[CalculateAverageRating](#)<sub>199</sub>

### RatingExtensions.CalculateAverageRating Method

**VB**

```
<Extension()> _  
Public Shared Function CalculateAverageRating( _  
    ByVal ratings As List(Of UserRating) _  
) As Double
```

**C#**

```
public static double CalculateAverageRating(  
    this List<UserRating> ratings  
)
```

```
[C++]  
[Extension()]  
public:  
static double CalculateAverageRating(  
    List<UserRating^>^ ratings  
)
```

```
[JScript]  
JScript does not support generic types and methods.
```

## Parameters

*ratings*

## See Also

Applies to: [RatingExtensions](#)<sub>199</sub>



## MelodyCircle.Migrations Namespace

### Classes

[initial](#)<sub>201</sub>

### initial Class

**VB**

```
<DbContext(typeof(ApplicationDbContext))> _  
<Migration("20240321020041_initial")> _  
Public Class initial  
    Inherits Migration
```

**C#**

```
[DbContext(typeof(ApplicationDbContext))]  
[Migration("20240321020041_initial")]  
public class initial : Migration
```

**[C++]**

```
[DbContext(typeof(ApplicationDbContext))]  
[Migration("20240321020041_initial")]  
public ref class initial : public Migration^
```

**[JScript]**

```
public  
    DbContext(typeof(ApplicationDbContext))  
    Migration("20240321020041_initial")  
class initial  
    extends Migration
```

### Requirements

**Namespace:** [MelodyCircle.Migrations](#)<sub>201</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

### Methods

[BuildTargetModel](#)<sub>201</sub>, [Down](#)<sub>202</sub>, [Up](#)<sub>203</sub>

### initial.BuildTargetModel Method

**VB**

```
Protected Overrides Sub BuildTargetModel( _
```

```
ByVal modelBuilder As modelBuilder _  
)
```

**C#**

```
protected override void BuildTargetModel(  
    modelBuilder modelBuilder  
)
```

```
[C++]  
protected:  
void BuildTargetModel(  
    modelBuilder^ modelBuilder  
)
```

```
[JScript]  
protected function BuildTargetModel(  
    modelBuilder : modelBuilder  
);
```

## Parameters

*modelBuilder*

## See Also

Applies to: [initial](#)<sub>201</sub>

## initial.Down Method

**VB**

```
Protected Overrides Sub Down(_  
    ByVal migrationBuilder As MigrationBuilder _  
)
```

**C#**

```
protected override void Down(  
    MigrationBuilder migrationBuilder  
)
```

```
[C++]  
protected:  
void Down(  

```

```
MigrationBuilder^ migrationBuilder  
)
```

```
[JScript]  
protected function Down(  
    migrationBuilder : MigrationBuilder  
);
```

## Parameters

*migrationBuilder*

## See Also

Applies to: [initial](#)<sub>201</sub>

## initial.Up Method

### VB

```
Protected Overrides Sub Up( _  
    ByVal migrationBuilder As MigrationBuilder _  
)
```

### C#

```
protected override void Up(  
    MigrationBuilder migrationBuilder  
)
```

```
[C++]  
protected:  
void Up(  
    MigrationBuilder^ migrationBuilder  
)
```

```
[JScript]  
protected function Up(  
    migrationBuilder : MigrationBuilder  
);
```

## Parameters

*migrationBuilder*

## See Also

Applies to: [initial](#)<sub>201</sub>

## MelodyCircle.Models Namespace

### Classes

[Collaboration](#)<sub>205</sub>, [ErrorViewModel](#)<sub>207</sub>, [Search](#)<sub>208</sub>, [SearchResultViewModel](#)<sub>210</sub>, [Step](#)<sub>212</sub>,  
[SubscribeTutorial](#)<sub>217</sub>, [Tutorial](#)<sub>220</sub>, [User](#)<sub>226</sub>, [UserRating](#)<sub>234</sub>

### Enumerations

[Gender](#)<sub>239</sub>, [SearchType](#)<sub>239</sub>

## Collaboration Class

**VB**

```
Public Class Collaboration
```

**C#**

```
public class Collaboration
```

**[C++]**

```
public ref class Collaboration
```

**[JScript]**

```
public class Collaboration
```

### Requirements

**Namespace:** [MelodyCircle.Models](#)<sub>205</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

### Properties

[Id](#)<sub>205</sub>, [Title](#)<sub>206</sub>

## Collaboration.Id Property

**VB**

```
Public Property Id() As Guid
```

**C#**

```
public Guid Id {get; set;}
```

```
[C++]
public:
property Guid Id {
    Guid get( );
    void set(
        Guid value
    );
}
```

```
[JScript]
public function get Id() : Guid;
public function set Id(value : Guid);
```

## See Also

Applies to: [Collaboration](#)<sub>205</sub>

## Collaboration.Title Property

**VB**

```
Public Property Title() As String
```

**C#**

```
public string Title {get; set;}
```

```
[C++]
public:
property String^ Title {
    String^ get( );
    void set(
        String^ value
    );
}
```

```
[JScript]
public function get Title() : String;
public function set Title(value : String);
```

## See Also

Applies to: [Collaboration](#)<sub>205</sub>

## ErrorViewModel Class

**VB**

```
Public Class ErrorViewModel
```

**C#**

```
public class ErrorViewModel
```

**[C++]**

```
public ref class ErrorViewModel
```

**[JScript]**

```
public class ErrorViewModel
```

### Requirements

**Namespace:** [MelodyCircle.Models](#)<sub>205</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

### Properties

[RequestId](#)<sub>207</sub>, [ShowRequestId](#)<sub>208</sub>

## ErrorViewModel.RequestId Property

**VB**

```
Public Property RequestId() As String
```

**C#**

```
public string RequestId {get; set;}
```

**[C++]**

```
public:  
property String^ RequestId {  
    String^ get( );  
    void set(  
        String^ value  
    );  
}
```

```
[JScript]
public function get RequestId() : String;
public function set RequestId(value : String);
```

## See Also

Applies to: [ErrorViewModel](#)<sub>207</sub>

## ErrorViewModel.ShowRequestId Property

**VB**

```
Public ReadOnly Property ShowRequestId() As Boolean
```

**C#**

```
public bool ShowRequestId {get;}
```

```
[C++]
public:
property bool ShowRequestId {
    bool get( );
}
```

```
[JScript]
public function get ShowRequestId() : boolean;
```

## See Also

Applies to: [ErrorViewModel](#)<sub>207</sub>

## Search Class

**VB**

```
Public Class Search
```

**C#**

```
public class Search
```

```
[C++]
public ref class Search
```



```
[JScript]
public class Search
```

## Requirements

**Namespace:** [MelodyCircle.Models](#)<sub>205</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Properties

[SearchTerm](#)<sub>209</sub>, [SearchType](#)<sub>209</sub>

## Search.SearchTerm Property

**VB**

```
Public Property SearchTerm() As String
```

**C#**

```
public string SearchTerm {get; set;}
```

```
[C++]
public:
property String^ SearchTerm {
String^ get( );
void set(
String^ value
);
}
```

```
[JScript]
public function get SearchTerm() : String;
public function set SearchTerm(value : String);
```

## See Also

Applies to: [Search](#)<sub>208</sub>

## Search.SearchType Property

**VB**

```
Public Property SearchType() As Nullable(Of SearchType)
```

**C#**

```
public Nullable<SearchType> SearchType {get; set;}
```

```
[C++]
public:
property Nullable<SearchType^> SearchType {
    Nullable<SearchType^> get( );
    void set(
        Nullable<SearchType^> value
    );
}
```

**[JScript]**

JScript does not support generic types and methods.

## See Also

Applies to: [Search](#)<sub>208</sub>

## SearchResultViewModel Class

**VB**

```
Public Class SearchResultViewModel
```

**C#**

```
public class SearchResultViewModel
```

**[C++]**

```
public ref class SearchResultViewModel
```

**[JScript]**

```
public class SearchResultViewModel
```

## Requirements

**Namespace:** [MelodyCircle.Models](#)<sub>205</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Properties

[Collaborations](#)<sub>211</sub>, [Tutorials](#)<sub>211</sub>, [Users](#)<sub>212</sub>

## SearchResultViewModel.Collaborations Property

**VB**

```
Public Property Collaborations() As List(Of Collaboration)
```

**C#**

```
public List<Collaboration> Collaborations {get; set;}
```

```
[C++]
public:
property List<Collaboration^>^ Collaborations {
    List<Collaboration^>^ get( );
    void set(
        List<Collaboration^>^ value
    );
}
```

**[JScript]**

JScript does not support generic types and methods.

### See Also

Applies to: [SearchResultViewModel](#)<sub>210</sub>

## SearchResultViewModel.Tutorials Property

**VB**

```
Public Property Tutorials() As List(Of Tutorial)
```

**C#**

```
public List<Tutorial> Tutorials {get; set;}
```

```
[C++]
public:
property List<Tutorial^>^ Tutorials {
    List<Tutorial^>^ get( );
    void set(
        List<Tutorial^>^ value
    );
}
```

**[JScript]**

JScript does not support generic types and methods.

## See Also

Applies to: [SearchResultViewModel](#)<sub>210</sub>

## SearchResultViewModel.Users Property

**VB**

```
Public Property Users() As List(Of User)
```

**C#**

```
public List<User> Users {get; set;}
```

```
[C++]
public:
property List<User^>^ Users {
    List<User^>^ get( );
    void set(
        List<User^>^ value
    );
}
```

**[JScript]**

JScript does not support generic types and methods.

## See Also

Applies to: [SearchResultViewModel](#)<sub>210</sub>

## Step Class

**VB**

```
Public Class Step
```

**C#**

```
public class Step
```

```
[C++]  
public ref class Step
```

```
[JScript]  
public class Step
```

## Requirements

**Namespace:** [MelodyCircle.Models](#)<sub>205</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Properties

[Content](#)<sub>213</sub>, [Id](#)<sub>214</sub>, [Order](#)<sub>214</sub>, [Title](#)<sub>215</sub>, [Tutorial](#)<sub>216</sub>, [TutorialId](#)<sub>216</sub>

## Step.Content Property

**VB**

```
<Required()> _  
Public Property Content() As String
```

**C#**

```
[Required()]  
public string Content {get; set;}
```

```
[C++]  
[Required()]  
public:  
property String^ Content {  
    String^ get( );  
    void set(  
        String^ value  
    );  
}
```

```
[JScript]  
public  
    Required()  
function get Content() : String;  
public  
    Required()  
function set Content(value : String);
```

## See Also

Applies to: [Step<sub>212</sub>](#)

## Step.Id Property

**VB**

```
Public Property Id() As Guid
```

**C#**

```
public Guid Id {get; set;}
```

```
[C++]
public:
property Guid Id {
    Guid get( );
    void set(
        Guid value
    );
}
```

```
[JScript]
public function get Id() : Guid;
public function set Id(value : Guid);
```

## See Also

Applies to: [Step<sub>212</sub>](#)

## Step.Order Property

**VB**

```
Public Property Order() As Integer
```

**C#**

```
public int Order {get; set;}
```

```
[C++]
public:
property int Order {
    int get( );
    void set(
        int value
    );
}
```

```
);  
}
```

```
[JScript]  
public function get Order() : int;  
public function set Order(value : int);
```

## See Also

Applies to: [Step](#)<sub>212</sub>

## Step.Title Property

**VB**

```
<Required()> _  
Public Property Title() As String
```

**C#**

```
[Required()]  
public string Title {get; set;}
```

```
[C++]  
[Required()]  
public:  
property String^ Title {  
    String^ get( );  
    void set(  
        String^ value  
    );  
}
```

```
[JScript]  
public  
    Required()  
function get Title() : String;  
public  
    Required()  
function set Title(value : String);
```

## See Also

Applies to: [Step](#)<sub>212</sub>

## Step.Tutorial Property

**VB**

```
Public Property Tutorial() As Tutorial
```

**C#**

```
public Tutorial Tutorial {get; set;}
```

```
[C++]
public:
property Tutorial^ Tutorial {
    Tutorial^ get( );
    void set(
        Tutorial^ value
    );
}
```

**[JScript]**

```
public function get Tutorial() : Tutorial;
public function set Tutorial(value : Tutorial);
```

### See Also

Applies to: [Step](#)<sub>212</sub>

## Step.TutorialId Property

**VB**

```
Public Property TutorialId() As Guid
```

**C#**

```
public Guid TutorialId {get; set;}
```

```
[C++]
public:
property Guid TutorialId {
    Guid get( );
    void set(
        Guid value
    );
}
```



```
[JScript]
public function get TutorialId() : Guid;
public function set TutorialId(value : Guid);
```

## See Also

Applies to: [Step](#)<sub>212</sub>

## SubscribeTutorial Class

**VB**

```
Public Class SubscribeTutorial
```

**C#**

```
public class SubscribeTutorial
```

**[C++]**

```
public ref class SubscribeTutorial
```

**[JScript]**

```
public class SubscribeTutorial
```

## Requirements

**Namespace:** [MelodyCircle.Models](#)<sub>205</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Properties

[Id](#)<sub>217</sub>, [Tutorial](#)<sub>218</sub>, [TutorialId](#)<sub>219</sub>, [User](#)<sub>219</sub>

## SubscribeTutorial.Id Property

**VB**

```
Public Property Id() As Guid
```

**C#**

```
public Guid Id {get; set;}
```

```
[C++]
public:
property Guid Id {
    Guid get( );
    void set(
        Guid value
    );
}
```

```
[JScript]
public function get Id() : Guid;
public function set Id(value : Guid);
```

## See Also

Applies to: [SubscribeTutorial](#)<sub>217</sub>

## SubscribeTutorial.Tutorial Property

**VB**

```
Public Property Tutorial() As Tutorial
```

**C#**

```
public Tutorial Tutorial {get; set;}
```

```
[C++]
public:
property Tutorial^ Tutorial {
    Tutorial^ get( );
    void set(
        Tutorial^ value
    );
}
```

```
[JScript]
public function get Tutorial() : Tutorial;
public function set Tutorial(value : Tutorial);
```

## See Also

Applies to: [SubscribeTutorial](#)<sub>217</sub>

## SubscribeTutorial.TutorialId Property

**VB**

```
Public Property TutorialId() As Guid
```

**C#**

```
public Guid TutorialId {get; set;}
```

```
[C++]
public:
property Guid TutorialId {
    Guid get( );
    void set(
        Guid value
    );
}
```

```
[JScript]
public function get TutorialId() : Guid;
public function set TutorialId(value : Guid);
```

### See Also

Applies to: [SubscribeTutorial](#)<sub>217</sub>

## SubscribeTutorial.User Property

**VB**

```
Public Property User() As User
```

**C#**

```
public User User {get; set;}
```

```
[C++]
public:
property User^ User {
    User^ get( );
    void set(
        User^ value
    );
}
```

```
[JScript]
public function get User() : User;
public function set User(value : User);
```

## See Also

Applies to: [SubscribeTutorial](#)<sub>217</sub>

## Tutorial Class

**VB**

```
Public Class Tutorial
```

**C#**

```
public class Tutorial
```

**[C++]**

```
public ref class Tutorial
```

**[JScript]**

```
public class Tutorial
```

## Requirements

**Namespace:** [MelodyCircle.Models](#)<sub>205</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Properties

[Creator](#)<sub>220</sub>, [Description](#)<sub>221</sub>, [Id](#)<sub>222</sub>, [Photo](#)<sub>222</sub>, [PhotoContentType](#)<sub>223</sub>, [StepCount](#)<sub>223</sub>, [Steps](#)<sub>224</sub>,  
[SubscribersCount](#)<sub>225</sub>, [Title](#)<sub>225</sub>

## Tutorial.Creator Property

**VB**

```
Public Property Creator() As String
```

**C#**

```
public string Creator {get; set;}
```

```
[C++]
public:
property String^ Creator {
    String^ get( );
    void set(
        String^ value
    );
}
```

```
[JScript]
public function get Creator() : String;
public function set Creator(value : String);
```

## See Also

Applies to: [Tutorial](#)<sub>220</sub>

## Tutorial.Description Property

**VB**

```
<Required()> _
Public Property Description() As String
```

**C#**

```
[Required()]
public string Description {get; set;}
```

```
[C++]
[Required()]
public:
property String^ Description {
    String^ get( );
    void set(
        String^ value
    );
}
```

```
[JScript]
public
    Required()
function get Description() : String;
public
    Required()
function set Description(value : String);
```

## See Also

Applies to: [Tutorial](#)<sub>220</sub>

## Tutorial.Id Property

**VB**

```
Public Property Id() As Guid
```

**C#**

```
public Guid Id {get; set;}
```

```
[C++]
public:
property Guid Id {
    Guid get( );
    void set(
        Guid value
    );
}
```

```
[JScript]
public function get Id() : Guid;
public function set Id(value : Guid);
```

## See Also

Applies to: [Tutorial](#)<sub>220</sub>

## Tutorial.Photo Property

**VB**

```
Public Property Photo() As Byte()
```

**C#**

```
public byte[] Photo {get; set;}
```

```
[C++]
public:
property array< Byte >^ Photo {
    array< Byte >^ get( );
}
```

```
void set(  
    array< Byte >^ value  
);  
}
```

```
[JScript]  
public function get Photo() : byte[];  
public function set Photo(value : byte[]);
```

## See Also

Applies to: [Tutorial](#)<sub>220</sub>

## Tutorial.PhotoContentType Property

**VB**

```
Public Property PhotoContentType() As String
```

**C#**

```
public string PhotoContentType {get; set;}
```

```
[C++]  
public:  
property String^ PhotoContentType {  
    String^ get( );  
    void set(  
        String^ value  
    );  
}
```

```
[JScript]  
public function get PhotoContentType() : String;  
public function set PhotoContentType(value : String);
```

## See Also

Applies to: [Tutorial](#)<sub>220</sub>

## Tutorial.StepCount Property

**VB**

```
Public Property StepCount() As Nullable(Of Integer)
```

**C#**

```
public Nullable<int> StepCount {get; set;}
```

```
[C++]
public:
property Nullable<int^> StepCount {
    Nullable<int^> get( );
    void set(
        Nullable<int^> value
    );
}
```

**[JScript]**

JScript does not support generic types and methods.

## See Also

Applies to: [Tutorial](#)<sub>220</sub>

## Tutorial.Steps Property

**VB**

```
Public Overridable Property Steps() As List(Of Step)
```

**C#**

```
public virtual List<Step> Steps {get; set;}
```

```
[C++]
public:
virtual property List<Step^> Steps {
    List<Step^> get( );
    void set(
        List<Step^> value
    );
}
```

**[JScript]**

JScript does not support generic types and methods.



## See Also

Applies to: [Tutorial](#)<sub>220</sub>

## Tutorial.SubscribersCount Property

**VB**

```
Public Property SubscribersCount() As Nullable(Of Integer)
```

**C#**

```
public Nullable<int> SubscribersCount {get; set;}
```

```
[C++]
public:
property Nullable<int^> SubscribersCount {
    Nullable<int^> get( );
    void set(
        Nullable<int^> value
    );
}
```

**[JScript]**

JScript does not support generic types and methods.

## See Also

Applies to: [Tutorial](#)<sub>220</sub>

## Tutorial.Title Property

**VB**

```
<Required()> _
Public Property Title() As String
```

**C#**

```
[Required()]
public string Title {get; set;}
```

**[C++]**

```
[Required()]
public:
property String^ Title {
    String^ get( );
    void set(
        String^ value
    );
}
```

```
[JScript]
public
    Required()
function get Title() : String;
public
    Required()
function set Title(value : String);
```

## See Also

Applies to: [Tutorial](#)<sub>220</sub>

## User Class

**VB**

```
Public Class User
    Inherits IdentityUser
```

**C#**

```
public class User : IdentityUser
```

**[C++]**

```
public ref class User : public IdentityUser^
```

**[JScript]**

```
public class User
    extends IdentityUser
```

## Requirements

**Namespace:** [MelodyCircle.Models](#)<sub>205</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Properties

[BirthDate](#)<sup>227</sup>, [Connections](#)<sup>228</sup>, [Gender](#)<sup>228</sup>, [Id](#)<sup>229</sup>, [Locality](#)<sup>229</sup>, [MusicURI](#)<sup>230</sup>, [Name](#)<sup>231</sup>, [Password](#)<sup>232</sup>,  
[ProfilePicture](#)<sup>233</sup>, [Ratings](#)<sup>234</sup>

## User.BirthDate Property

**VB**

```
<PersonalData()> _
<Required()> _
<DataType(DataType.Date)> _
<Display(Name = "Data Nascimento")> _
Public Property BirthDate() As DateOnly
```

**C#**

```
[PersonalData()]
[Required()]
[DataType(DataType.Date)]
[Display(Name = "Data Nascimento")]
public DateOnly BirthDate {get; set;}
```

```
[C++]
[PersonalData()]
[Required()]
[DataType(DataType.Date)]
[Display(Name = "Data Nascimento")]
public:
property DateOnly BirthDate {
    DateOnly get( );
    void set(
        DateOnly value
    );
}
```

```
[JScript]
public
    PersonalData()
    Required()
    DataType(DataType.Date)
    Display(Name = "Data Nascimento")
function get BirthDate() : DateOnly;
public
    PersonalData()
    Required()
    DataType(DataType.Date)
    Display(Name = "Data Nascimento")
function set BirthDate(value : DateOnly);
```

## See Also

Applies to: [User](#)<sub>226</sub>

## User.Connections Property

**VB**

```
Public Overridable Property Connections() As List(Of User)
```

**C#**

```
public virtual List<User> Connections {get; set;}
```

```
[C++]
public:
virtual property List<User^>^ Connections {
    List<User^>^ get( );
    void set(
        List<User^>^ value
    );
}
```

**[JScript]**

JScript does not support generic types and methods.

## See Also

Applies to: [User](#)<sub>226</sub>

## User.Gender Property

**VB**

```
<PersonalData()> _
<Display(Name = "Género")> _
Public Property Gender() As Nullable(Of Gender)
```

**C#**

```
[PersonalData()]
[Display(Name = "Género")]
public Nullable<Gender> Gender {get; set;}
```

```
[C++]
[PersonalData()]
[Display(Name = "Género")]
```

```
public:
property Nullable<Gender^> Gender {
    Nullable<Gender^> get( );
    void set(
        Nullable<Gender^> value
    );
}
```

**[JScript]**

JScript does not support generic types and methods.

**See Also**

Applies to: [User](#)<sub>226</sub>

**User.Id Property****VB**

```
Public Property Id() As Guid
```

**C#**

```
public Guid Id {get; set;}
```

```
[C++]
public:
property Guid Id {
    Guid get( );
    void set(
        Guid value
    );
}
```

**[JScript]**

```
public function get Id() : Guid;
public function set Id(value : Guid);
```

**See Also**

Applies to: [User](#)<sub>226</sub>

**User.Locality Property****VB**

```
<PersonalData()> _
<DataType(DataType.Text)> _
<Display(Name = "Localidade")> _
Public Property Locality() As String
```

**C#**

```
[PersonalData()]
[DataType(DataType.Text)]
[Display(Name = "Localidade")]
public string Locality {get; set;}
```

```
[C++]
[PersonalData()]
[DataType(DataType.Text)]
[Display(Name = "Localidade")]
public:
property String^ Locality {
    String^ get( );
    void set(
        String^ value
    );
}
```

```
[JScript]
public
    PersonalData()
    DataType(DataType.Text)
    Display(Name = "Localidade")
function get Locality() : String;
public
    PersonalData()
    DataType(DataType.Text)
    Display(Name = "Localidade")
function set Locality(value : String);
```

**See Also**

Applies to: [User](#)<sub>226</sub>

**User.MusicURI Property****VB**

```
Public Overridable Property MusicURI() As List(Of String)
```

**C#**

```
public virtual List<string> MusicURI {get; set;}
```

```
[C++]
public:
virtual property List<String^> MusicURI {
    List<String^> get( );
    void set(
        List<String^> value
    );
}
```

#### [JScript]

JScript does not support generic types and methods.

## See Also

Applies to: [User](#)<sub>226</sub>

## User.Name Property

### VB

```
<PersonalData()> _
<Required()> _
<DataType(DataType.Text)> _
<Display(Name = "Nome")> _
Public Property Name() As String
```

### C#

```
[PersonalData()]
[Required()]
[DataType(DataType.Text)]
[Display(Name = "Nome")]
public string Name {get; set;}
```

```
[C++]
[PersonalData()]
[Required()]
[DataType(DataType.Text)]
[Display(Name = "Nome")]
public:
property String^ Name {
    String^ get( );
    void set(
        String^ value
    );
}
```

```
}
```

```
[JScript]
public
    PersonalData()
    Required()
    DataType(DataType.Text)
    Display(Name = "Nome")
function get Name() : String;
public
    PersonalData()
    Required()
    DataType(DataType.Text)
    Display(Name = "Nome")
function set Name(value : String);
```

## See Also

Applies to: [User](#)<sub>226</sub>

## User.Password Property

**VB**

```
<PersonalData()> _
<Required()> _
<DataType(DataType.Password)> _
<Display(Name = "Password")> _
Public Property Password() As String
```

**C#**

```
[PersonalData()]
[Required()]
[DataType(DataType.Password)]
[Display(Name = "Password")]
public string Password {get; set;}
```

**[C++]**

```
[PersonalData()]
[Required()]
[DataType(DataType.Password)]
[Display(Name = "Password")]
public:
property String^ Password {
    String^ get( );
    void set(
        String^ value
    );
};
```



```
}
```

```
[JScript]
public
    PersonalData()
    Required()
    DataType(DataType.Password)
    Display(Name = "Password")
function get Password() : String;
public
    PersonalData()
    Required()
    DataType(DataType.Password)
    Display(Name = "Password")
function set Password(value : String);
```

## See Also

Applies to: [User](#)<sub>226</sub>

## User.ProfilePicture Property

**VB**

```
<PersonalData()> _
<DataType(DataType.Upload)> _
<Display(Name = "Foto de Perfil")> _
Public Property ProfilePicture() As Byte()
```

**C#**

```
[PersonalData()]
[DataType(DataType.Upload)]
[Display(Name = "Foto de Perfil")]
public byte[] ProfilePicture {get; set;}
```

```
[C++]
[PersonalData()]
[DataType(DataType.Upload)]
[Display(Name = "Foto de Perfil")]
public:
property array< Byte >^ ProfilePicture {
    array< Byte >^ get( );
    void set(
        array< Byte >^ value
    );
}
```

```
[JScript]
public
    PersonalData()
    DataType(DataType.Upload)
    Display(Name = "Foto de Perfil")
function get ProfilePicture() : byte[];
public
    PersonalData()
    DataType(DataType.Upload)
    Display(Name = "Foto de Perfil")
function set ProfilePicture(value : byte[]);
```

## See Also

Applies to: [User](#)<sub>226</sub>

## User.Ratings Property

**VB**

```
Public Overridable Property Ratings() As List(Of UserRating)
```

**C#**

```
public virtual List<UserRating> Ratings {get; set;}
```

```
[C++]
public:
virtual property List<UserRating^> Ratings {
    List<UserRating^> get( );
    void set(
        List<UserRating^> value
    );
}
```

```
[JScript]
JScript does not support generic types and methods.
```

## See Also

Applies to: [User](#)<sub>226</sub>

## UserRating Class

**VB**

```
Public Class UserRating
```

**C#**

```
public class UserRating
```

**[C++]**

```
public ref class UserRating
```

**[JScript]**

```
public class UserRating
```

## Requirements

**Namespace:** [MelodyCircle.Models](#)<sub>205</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Properties

[Id](#)<sub>235</sub>, [RatedUserName](#)<sub>236</sub>, [User](#)<sub>236</sub>, [UserId](#)<sub>237</sub>, [UserName](#)<sub>237</sub>, [Value](#)<sub>238</sub>

## UserRating.Id Property

**VB**

```
Public Property Id() As Guid
```

**C#**

```
public Guid Id {get; set;}
```

**[C++]**

```
public:  
property Guid Id {  
    Guid get( );  
    void set(  
        Guid value  
    );  
}
```

**[JScript]**

```
public function get Id() : Guid;  
public function set Id(value : Guid);
```

## See Also

Applies to: [UserRating](#)<sub>234</sub>

## UserRating.RatedUserName Property

**VB**

```
Public Property RatedUserName() As String
```

**C#**

```
public string RatedUserName {get; set;}
```

```
[C++]
public:
property String^ RatedUserName {
    String^ get( );
    void set(
        String^ value
    );
}
```

```
[JScript]
public function get RatedUserName() : String;
public function set RatedUserName(value : String);
```

## See Also

Applies to: [UserRating](#)<sub>234</sub>

## UserRating.User Property

**VB**

```
Public Property User() As User
```

**C#**

```
public User User {get; set;}
```

```
[C++]
public:
property User^ User {
    User^ get( );
}
```

```
void set(  
    User^ value  
);  
}
```

```
[JScript]  
public function get User() : User;  
public function set User(value : User);
```

## See Also

Applies to: [UserRating](#)<sub>234</sub>

## UserRating.UserId Property

**VB**

```
Public Property UserId() As String
```

**C#**

```
public string UserId {get; set;}
```

```
[C++]  
public:  
property String^ UserId {  
    String^ get( );  
    void set(  
        String^ value  
    );  
}
```

```
[JScript]  
public function get UserId() : String;  
public function set UserId(value : String);
```

## See Also

Applies to: [UserRating](#)<sub>234</sub>

## UserRating.UserName Property

**VB**

```
Public Property UserName() As String
```

**C#**

```
public string UserName {get; set;}
```

```
[C++]
public:
property String^ UserName {
    String^ get( );
    void set(
        String^ value
    );
}
```

```
[JScript]
public function get UserName() : String;
public function set UserName(value : String);
```

## See Also

Applies to: [UserRating](#)<sub>234</sub>

## UserRating.Value Property

**VB**

```
Public Property Value() As Integer
```

**C#**

```
public int Value {get; set;}
```

```
[C++]
public:
property int Value {
    int get( );
    void set(
        int value
    );
}
```

```
[JScript]
```

```
public function get Value() : int;  
public function set Value(value : int);
```

## See Also

Applies to: [UserRating](#)<sup>234</sup>

## Gender Enumeration

Constant	Value	Description
Female	1	
Male	0	
Other	2	

## Requirements

**Namespace:** [MelodyCircle.Models](#)<sup>205</sup>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## SearchType Enumeration

Constant	Value	Description
Collaboration	3	
None	0	
Tutorial	2	
User	1	

## Requirements

**Namespace:** [MelodyCircle.Models](#)<sup>205</sup>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## MelodyCircle.Services Namespace

### Classes

[EmailSender](#)<sup>240</sup>, [UniqueEmailAttribute](#)<sup>242</sup>, [UniqueEmailService](#)<sup>244</sup>

### EmailSender Class

**VB**

```
Public Class EmailSender
    Implements IEmailSender
```

**C#**

```
public class EmailSender : IEmailSender
```

**[C++]**

```
public ref class EmailSender : public IEmailSender^
```

**[JScript]**

```
public class EmailSender
    implements IEmailSender
```

### Requirements

**Namespace:** [MelodyCircle.Services](#)<sup>240</sup>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

### Constructors

[EmailSender](#)<sup>240</sup>

### Methods

[SendEmailAsync](#)<sup>241</sup>

### EmailSender Constructor

**VB**

```
Public Sub New( _
    ByVal configuration As IConfiguration, _
    ByVal logger As ILogger(Of EmailSender) _
)
```



**C#**

```
public EmailSender(
    IConfiguration configuration,
    ILogger<EmailSender> logger
)
```

```
[C++]
public:
EmailSender(
    IConfiguration^ configuration,
    ILogger<EmailSender^>^ logger
)
```

```
[JScript]
JScript does not support generic types and methods.
```

**Parameters***configuration**logger***See Also**Applies to: [EmailSender](#)<sub>240</sub>**EmailSender.SendEmailAsync Method****VB**

```
Public Function SendEmailAsync( _
    ByVal toEmail As String, _
    ByVal subject As String, _
    ByVal message As String _
) As Task
```

**C#**

```
public Task SendEmailAsync(
    string toEmail,
    string subject,
    string message
)
```

**[C++]**

```
public:
Task^ SendEmailAsync(
    String^ toEmail,
    String^ subject,
    String^ message
)
```

```
[JScript]
public function SendEmailAsync(
    toEmail : String,
    subject : String,
    message : String
) : Task;
```

## Parameters

*toEmail*

*subject*

*message*

## See Also

Applies to: [EmailSender](#)<sub>240</sub>

## UniqueEmailAttribute Class

**VB**

```
Public Class UniqueEmailAttribute
    Inherits ValidationAttribute
```

**C#**

```
public class UniqueEmailAttribute : ValidationAttribute
```

**[C++]**

```
public ref class UniqueEmailAttribute : public ValidationAttribute^
```

**[JScript]**

```
public class UniqueEmailAttribute
    extends ValidationAttribute
```

## Requirements

**Namespace:** [MelodyCircle.Services](#)<sup>240</sup>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Methods

[GetErrorMessage](#)<sup>243</sup>, [IsValid](#)<sup>243</sup>

## UniqueEmailAttribute.GetErrorMessage Method

**VB**

```
Public Function GetErrorMessage() As String
```

**C#**

```
public string GetErrorMessage()
```

```
[C++]  
public:  
String^ GetErrorMessage()
```

```
[JScript]  
public function GetErrorMessage() : String;
```

## See Also

Applies to: [UniqueEmailAttribute](#)<sup>242</sup>

## UniqueEmailAttribute.IsValid Method

**VB**

```
Protected Overrides Function IsValid( _  
    ByVal value As Object, _  
    ByVal validationContext As ValidationContext _  
) As ValidationResult
```

**C#**

```
protected override ValidationResult IsValid(  
    object value,  
    ValidationContext validationContext  
)
```

```
[C++]
protected:
ValidationResult^ IsValid(
    object^ value,
    ValidationContext^ validationContext
)
```

```
[JScript]
protected function IsValid(
    value : object,
    validationContext : ValidationContext
) : ValidationResult;
```

## Parameters

*value*

*validationContext*

## See Also

Applies to: [UniqueEmailAttribute](#)<sup>242</sup>

## UniqueEmailService Class

**VB**

```
Public Class UniqueEmailService
```

**C#**

```
public class UniqueEmailService
```

```
[C++]
public ref class UniqueEmailService
```

```
[JScript]
public class UniqueEmailService
```

## Requirements

**Namespace:** [MelodyCircle.Services](#)<sup>240</sup>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Constructors

[UniqueEmailService](#)<sub>245</sub>

## Methods

[DoesEmailExist](#)<sub>245</sub>

### UniqueEmailService Constructor

**VB**

```
Public Sub New( _  
    ByVal context As ApplicationDbContext _  
)
```

**C#**

```
public UniqueEmailService(  
    ApplicationDbContext context  
)
```

```
[C++]  
public:  
UniqueEmailService(  
    ApplicationDbContext^ context  
)
```

```
[JScript]  
public function UniqueEmailService(  
    context : ApplicationDbContext  
);
```

## Parameters

*context*

## See Also

Applies to: [UniqueEmailService](#)<sub>244</sub>

### UniqueEmailService.DoesEmailExist Method

**VB**

```
Public Function DoesEmailExist( _  
    ByVal email As String _  
) As Boolean
```

**C#**

```
public bool DoesEmailExist(  
    string email  
)
```

```
[C++]  
public:  
bool DoesEmailExist(  
    String^ email  
)
```

```
[JScript]  
public function DoesEmailExist(  
    email : String  
) : boolean;
```

**Parameters**

*email*

**See Also**

Applies to: [UniqueEmailService](#)<sub>244</sub>

## MelodyCircle.ViewComponents Namespace

### Classes

[MusicListViewComponent](#)<sup>247</sup>, [StarRatingViewComponent](#)<sup>248</sup>

### MusicListViewComponent Class

VB

```
Public Class MusicListViewComponent
    Inherits ViewComponent
```

C#

```
public class MusicListViewComponent : ViewComponent
```

[C++]

```
public ref class MusicListViewComponent : public ViewComponent^
```

[JScript]

```
public class MusicListViewComponent
    extends ViewComponent
```

### Requirements

**Namespace:** [MelodyCircle.ViewComponents](#)<sup>247</sup>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

### Methods

[Invoke](#)<sup>247</sup>

### MusicListViewComponent.Invoke Method

VB

```
Public Function Invoke( _
    ByVal favoriteMusicList As UserMusicsViewModel _
) As IViewComponentResult
```

C#

```
public IViewComponentResult Invoke(
    UserMusicsViewModel favoriteMusicList
)
```

```
[C++]
public:
IViewComponentResult^ Invoke(
    UserMusicsViewModel^ favoriteMusicList
)
```

```
[JScript]
public function Invoke(
    favoriteMusicList : UserMusicsViewModel
) : IViewComponentResult;
```

### Parameters

*favoriteMusicList*

### See Also

Applies to: [MusicListViewComponent](#)<sub>247</sub>

## StarRatingViewComponent Class

**VB**

```
Public Class StarRatingViewComponent
    Inherits ViewComponent
```

**C#**

```
public class StarRatingViewComponent : ViewComponent
```

```
[C++]
public ref class StarRatingViewComponent : public ViewComponent^
```

```
[JScript]
public class StarRatingViewComponent
    extends ViewComponent
```

### Requirements

**Namespace:** [MelodyCircle.ViewComponents](#)<sub>247</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

### Methods



[InvokeAsync](#)<sub>249</sub>

## StarRatingViewComponent.InvokeAsync Method

**VB**

```
Public Function InvokeAsync( _  
    ByVal rating As Double _  
) As Task(Of IViewComponentResult)
```

**C#**

```
public Task<IViewComponentResult> InvokeAsync(  
    double rating  
)
```

```
[C++]  
public:  
Task<IViewComponentResult^> InvokeAsync(  
    double rating  
)
```

**[JScript]**

JScript does not support generic types and methods.

### Parameters

*rating*

### See Also

Applies to: [StarRatingViewComponent](#)<sub>248</sub>

## MelodyCircle.ViewModels Namespace

### Classes

[ProfileViewModel](#)<sup>250</sup>, [UserMusicsViewModel](#)<sup>251</sup>

### ProfileViewModel Class

**VB**

```
Public Class ProfileViewModel
```

**C#**

```
public class ProfileViewModel
```

**[C++]**

```
public ref class ProfileViewModel
```

**[JScript]**

```
public class ProfileViewModel
```

### Requirements

**Namespace:** [MelodyCircle.ViewModels](#)<sup>250</sup>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

### Properties

[Roles](#)<sup>250</sup>, [User](#)<sup>251</sup>

### ProfileViewModel.Roles Property

**VB**

```
Public Property Roles() As IList(Of String)
```

**C#**

```
public IList<string> Roles {get; set;}
```

**[C++]**

```
public:
```

```
property IList<String>^ Roles {  
    IList<String>^ get( );  
    void set(  
        IList<String>^ value  
    );  
}
```

[JScript]

JScript does not support generic types and methods.

## See Also

Applies to: [ProfileViewModel](#)<sub>250</sub>

## ProfileViewModel.User Property

VB

```
Public Property User() As User
```

C#

```
public User User {get; set;}
```

```
[C++]  
public:  
property User^ User {  
    User^ get( );  
    void set(  
        User^ value  
    );  
}
```

[JScript]

```
public function get User() : User;  
public function set User(value : User);
```

## See Also

Applies to: [ProfileViewModel](#)<sub>250</sub>

## UserMusicsViewModel Class

VB

```
Public Class UserMusicsViewModel
```

**C#**

```
public class UserMusicsViewModel
```

**[C++]**

```
public ref class UserMusicsViewModel
```

**[JScript]**

```
public class UserMusicsViewModel
```

## Requirements

**Namespace:** [MelodyCircle.ViewModels](#)<sub>250</sub>

**Assembly:** MelodyCircle (in MelodyCircle.dll)

## Properties

[MusicUri](#)<sub>252</sub>, [User](#)<sub>253</sub>

## UserMusicsViewModel.MusicUri Property

**VB**

```
Public Property MusicUri() As IList(Of String)
```

**C#**

```
public IList<string> MusicUri {get; set;}
```

**[C++]**

```
public:  
property IList<String^> MusicUri {  
    IList<String^> get( );  
    void set(  
        IList<String^> value  
    );  
}
```

**[JScript]**

JScript does not support generic types and methods.

## See Also

Applies to: [UserMusicsViewModel](#)<sub>251</sub>

## UserMusicsViewModel.User Property

**VB**

```
Public Property User() As User
```

**C#**

```
public User User {get; set;}
```

```
[C++]  
public:  
property User^ User {  
    User^ get( );  
    void set(  
        User^ value  
    );  
}
```

```
[JScript]  
public function get User() : User;  
public function set User(value : User);
```

## See Also

Applies to: [UserMusicsViewModel](#)<sub>251</sub>

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