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ASP.NET core remote validation

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In this video we will discuss **Remote Validation in ASP.NET Core** with an example.

What is Remote Validation in ASP.NET Core

Remote validation allows a controller action method to be called using client side script. This is very useful when you want to call a server side method without a full page post back.

Remote validation example

Consider the following User Registration Page

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Checking if the provided email is already taken by another user can only be done on the server. The following IsEmailInUse() controller action method checks if the provided email is in use.

```
[AcceptVerbs("Get", "Post")]
[AllowAnonymous]
public async Task<IActionResult> IsEmailInUse(string email)
{
    var user = await userManager.FindByEmailAsync(email);

    if (user == null)
    {
        return Json(true);
```

```
        }
        else
        {
            return Json($"Email {email} is already in use.");
        }
```

- This method should respond to both HTTP GET and POST. This is the reason we specified both the HTTP verbs (Get and Post) using [AcceptVerbs] attribute.
- ASP.NET Core MVC uses jQuery remote() method which in turn issues an AJAX call to invoke the server side method.
- The jQuery remote() method expects a JSON response, this is the reason we are returning JSON response from the server-side method (IsEmailInUse)

ASP.NET core remote attribute

The following is the model class for the *User Registration View*. Notice, we have decorated the Email property with the [Remote] attribute pointing it to the action method that should be invoked when the email value changes.

```
public class RegisterViewModel
{
    [Required]
    [EmailAddress]
    [Remote(action: "IsEmailInUse", controller: "Account")]
    public string Email { get; set; }

    // Other properties
}
```

ASP.NET core remote validation not working

The following *3 client-side libraries are required in the order specified* for the remote validation to work. If any of them are missing or not loaded in the order specified, remote validation will not work.

```
<script src="~/lib/jquery/jquery.js"></script>
<script src="~/lib/jquery-validate/jquery.validate.js"></script>
```

```
<script src="~/lib/jquery-validation-unobtrusive/jquery.validate.unobtrusive.js">
</script>
```


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