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Validators in Web forms

Validators in web forms are controls, that validate a user input based on a condition.

Multiple validators can validate the same input control

Validators are asp.net controls and they add client (JS) validations automatically based on property settings

Validators can only validate asp.net controls (not html controls)

1. RequiredFieldValidator: Empty values are not allowed.

Properties to set:

ControlToValidate

ErrorMessage

SetFocusOnError

2. Compare Validator: Compares the values in 2 controls

Properties to set:

ControlToValidate

ControlToCompare

ErrorMessage

SetFocusOnError

Operator (optional. If not set, it will compare for equality)

Type (optional. If not set, it will compare the values for string datatype)

3. RangeValidator

Properties to set:

ControlToValidate

ErrorMessage

SetFocusOnError

MaximumValue

MinimumValue

Type (optional. If not set, it will assume string datatype)

4. RegularExpressionValidator

Properties to set:

ControlToValidate

ErrorMessage

SetFocusOnError

ValidationExpression

5. CustomValidator: When none of the above fit the application requirement, custom validators
are used
Properties to set:
ControlToValidate
ErrorMessage
SetFocusOnError
ClientValidationFunction
Working with Asp.net Web Forms Application
Working with Database connection using Web Forms
Steps to insert or any activity with database
1. Connect to database.
SqlConnection
2. Create a command to execute in the database
SqlCommand
SqlCommands example in SqlDataSource controls
Please look at InsertCommand, UpdateCommand, DeleteCommand, SelectCommand
3. Every SqlCommand has parameters
SqlParameter
4. Execute the command
i. ExecuteNonQuery: Use for inserts. Gives how many records affected
ii. ExecuteReader: Used to process record by record Connected Architecture
iii. ExecuteScalar: Returns only one value
iv. Fill: Return lot of data like a table
Page Lifecycle
Page_PreInit()
Page_Init()
Page_InitComplete()
Page_PreLoad()
Page_Load()
<control events=""></control>
Page_LoadComplete()
OnPreRender()
OnSaveStateComplete()
Render()

Page_Unload() Reading Material: https://www.tutorialspoint.com/asp.net/ Read more on State Management https://www.tutorialspoint.com/asp.net/asp.net_managing_state.htm Read more on Caching: https://www.tutorialspoint.com/asp.net/asp.net_data_caching.htm _____ Summary for Partial View 1. Can render a partial view by returning a partial view Eg: return PatialView("pName") 2. Can render a partial view directly from razor code in .cshtml. Use the Html Helper @{ Html.RenderPartial("PartialViewName", Model) Integration of Ajax with MVC 1. Use Nuget Packages. Install them for your MVC project a. Microsoft.jQuery.Unobtrusive.Ajax b. Microsoft.jQuery.Unobtrusive.Validation Verify if configurations are added in Web.config. ** Collapse all the folders for your project. The last file in your project will have capital "W" in "Web.config" Check if the following is available inside <appSettings> <add key="ClientValidationEnabled" value="true" /> <add key="UnobtrusiveJavaScriptEnabled" value="true" /> 3. Open Layout.cshtml. (Find this in Views => Shared => Layout.cshtml) Add the following in the same sequence as mentioned <script src="~/Scripts/jquery-<version>.min.js"></script> <script src="~/Scripts/jquery.unobtrusive-ajax.min.js"></script>

4. Add an Action in the controller. The action should return a PartialView("yourView").

^{** &}lt;version> : Look at the correct version of the file in the Scripts folder

```
5. Create the Views for your action. Add @using(Ajax.BeginForm())
Syntax for Ajax.BeginForm
"YourActionNameOnClick", "ControllerName",
new AjaxOptions
{
    InsertionMode = InsertionMode.Replace | InsertionMode.InsertAfter |
InsertionMode.InsertBefore,
    HttpMethod = "Get | Post | Put | Delete",
    UpdateTargetId = "resultDiv"
}
```

6. This completes the configuration for ajax using MVC, Ajax helpers