

.NET TECHNOLOGIES





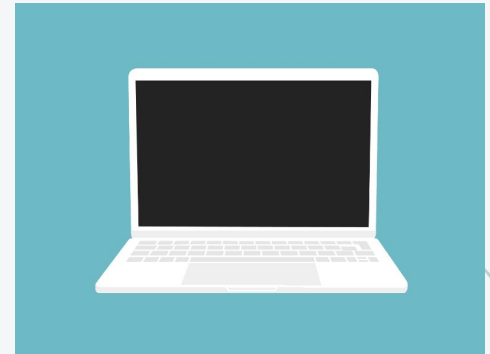
.NET Technologies - Lecture 15

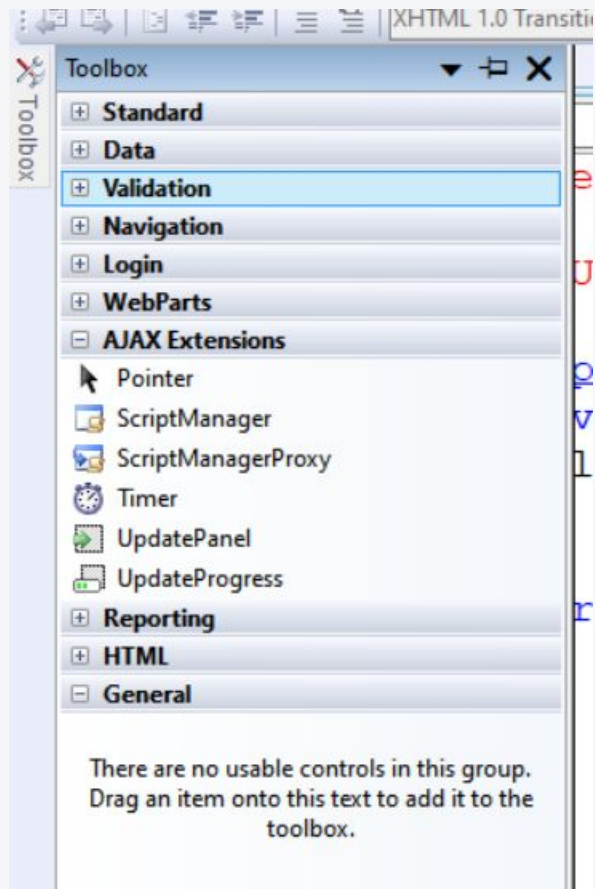
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UNIT 3: Topics in this presentation

Topics:

- ASP.NET Ajax
- ScriptManager
- Partial Refreshes
- Progress Notifications
- Timed Refreshes





AJAX

- AJAX = Asynchronous JavaScript and XML.
- AJAX is a technique for creating fast and dynamic web pages.
- AJAX allows web pages to be updated asynchronously by exchanging small amounts of data with the server behind the scenes. This means that it is possible to update parts of a web page, without reloading the whole page.
- Classic web pages, (which do not use AJAX) must reload the entire page if the content should change.
- Examples of applications using AJAX: Google Maps, Gmail, Youtube, and Facebook tabs.

ScriptManager

- The ScriptManager control is the most important control and must be present on the page for other controls to work.
- It has the basic syntax:

```
<asp:ScriptManager ID="ScriptManager1" runat="server">
```

```
</asp:ScriptManager>
```

- If you create an 'Ajax Enabled site' or add an 'AJAX Web Form' from the 'Add Item' dialog box, the web form automatically contains the script manager control.
- The ScriptManager control takes care of the client-side script for all the server side controls.

Partial Refreshes

- Partial refreshes are done using partial classes.
- A partial class provides a special ability to implement the functionality of a single class into multiple files and all these files are combined into a single class file when the application is compiled.

Progress Notifications

- The UpdateProgress control provides a sort of feedback on the browser while one or more update panel controls are being updated. For example, while a user logs in or waits for server response while performing some database oriented job.
- It provides a visual acknowledgement like "Loading page...", indicating the work is in progress.

```
<asp:UpdateProgress ID="UpdateProgress1" runat="server" DynamicLayout="true"  
AssociatedUpdatePanelID="UpdatePanel1" >
```

```
<ProgressTemplate>
```

```
    Loading...
```

```
</ProgressTemplate>
```

```
</asp:UpdateProgress>
```


Timed Refreshes

- The timer control is used to initiate the post back automatically.
- By setting properties of this control, you can set the timer for refreshing at a particular event or at regular intervals.