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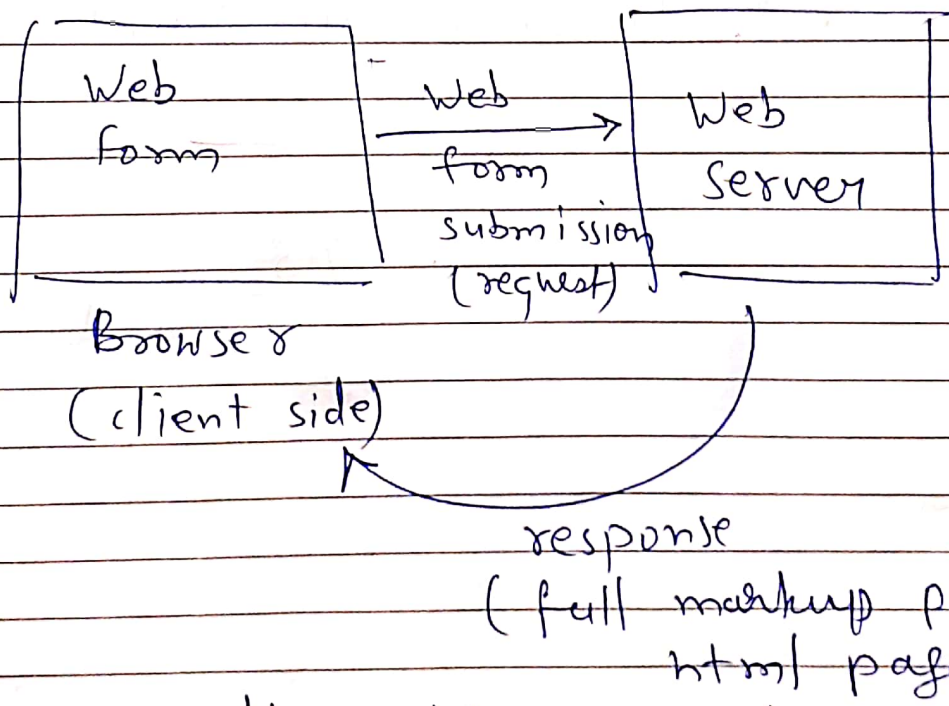
Date

7.5 Server Controls

Before starting 7.5 let us study some basic concepts-

① ASP .Net Web form model -

- web form event-driven model
प्रदान करता है।
- User interact with web application using event-driven model.



- Client actions trigger reactions on server side.

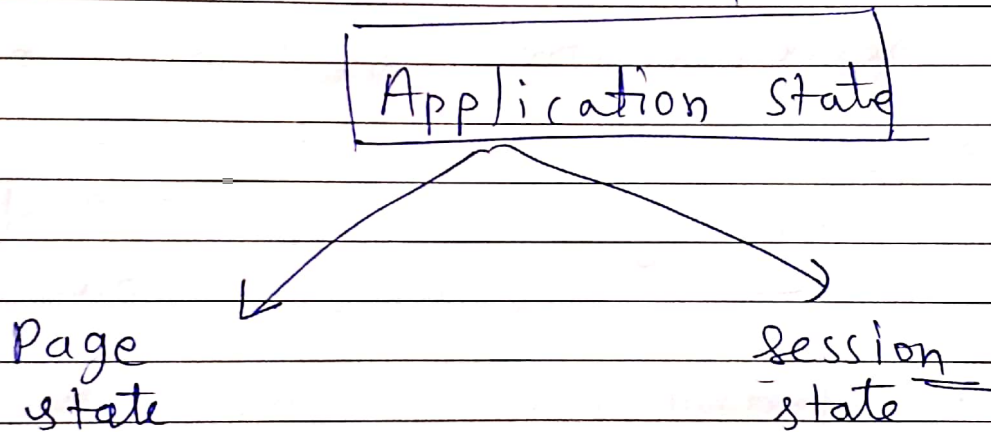
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HTTP - stateless protocol

इसमें page state / session state को store करने का प्रावधान/feature नहीं है।

∴ ASP.NET web-application state management हेतु आवश्यक features / services प्रदान करता है।



— page level
— content of web form on a page
(value of input fields on web page)

— collective information from pages visited by user and user worked with.

(overall session state)

eg. एक page से information को दूसरे page पर भेजना। (not possible using HTML)

② ASP .Net Component Model

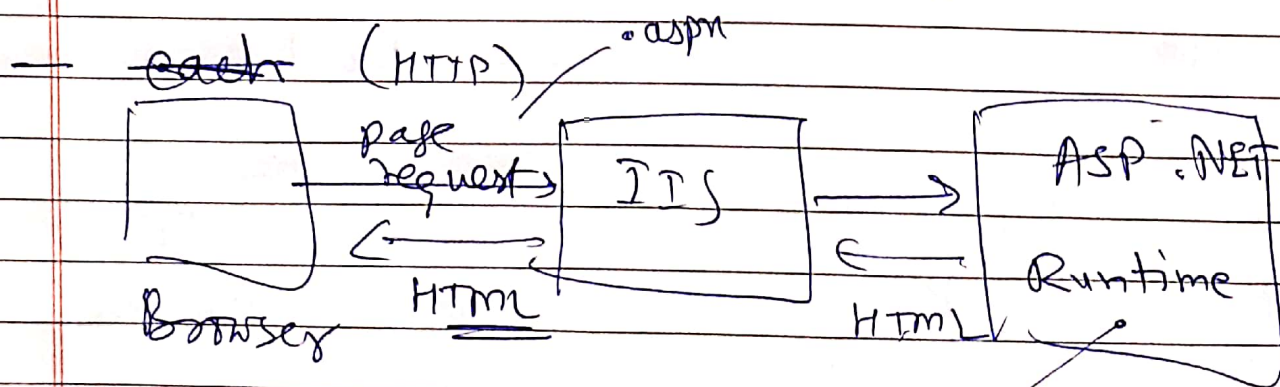
— component model — building block of ASP .Net Pages

— यह एक object model है जो सभी HTML elements को server side व्यक्त करता है।

↓
<form>
<input>

— यह server controls प्रदान करता है जिसके द्वारा complex UI बनाया जा सकता है। eg. calendar control, GridView control etc.

— .Net framework is object-oriented



∴ ASP .NET page is ^{*.aspx} → object
 — an object and all its components are also objects. (instance of a class)

ASP.NET Environment

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Q- What ^{all} do we need to develop ASP.NET applications?

Ans. — Visual Studio www.visualstudio.com
(IDE)

— SQL Server (database)

— We have seen installation of

— Open Visual Studio

— New Project → ASP.NET Web Application
(.NET framework)
Visual Basic/

Application Type.

— ☒ Empty

Web Forms

MVC

Web API

Single Page Application (SPA)

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जब नया ASP.NET Web Application create करते हैं तो Visual Studio निम्न files generate करता है -

Default.aspx — HTML code & asp code
Default.aspx.vb — code to handle actions on form

Primary Window - web form designer window

Tool Box Window

Solution Explorer Window

Properties Window

Designer Window ↔ Code Window
(Design Button) (source)
(source Button)

Auto-hide button - to hide a window

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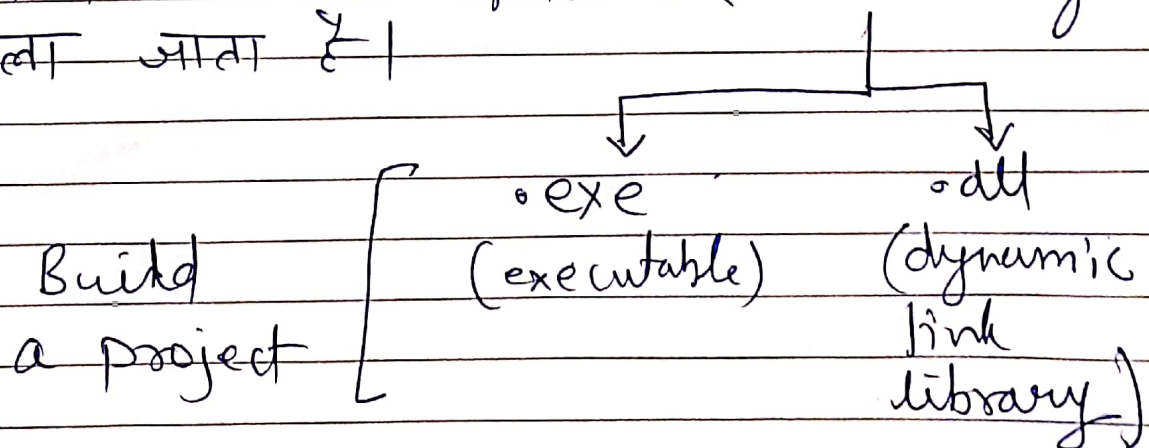
Projects and solutions

ASP .Net application / Project
में निम्न files / items
से मिलकर बनता है -

- content files (.aspx)
- source files (.cs / .vb)
- assemblies (.dll / .exe)
- data source files (.mdb)
- references
- icons
- user controls
- other files and folders

Solution = one or more projects

Note Project Contents को compile कर assembly
में बदला जाता है।



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Project में निम्न files होती हैं

- page file (.aspx)
- User control (.ascx)
- Web Service (.asmx)
- Master page (.master)
- Site Map (.sitemap)
- Web configuration file (.config)

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