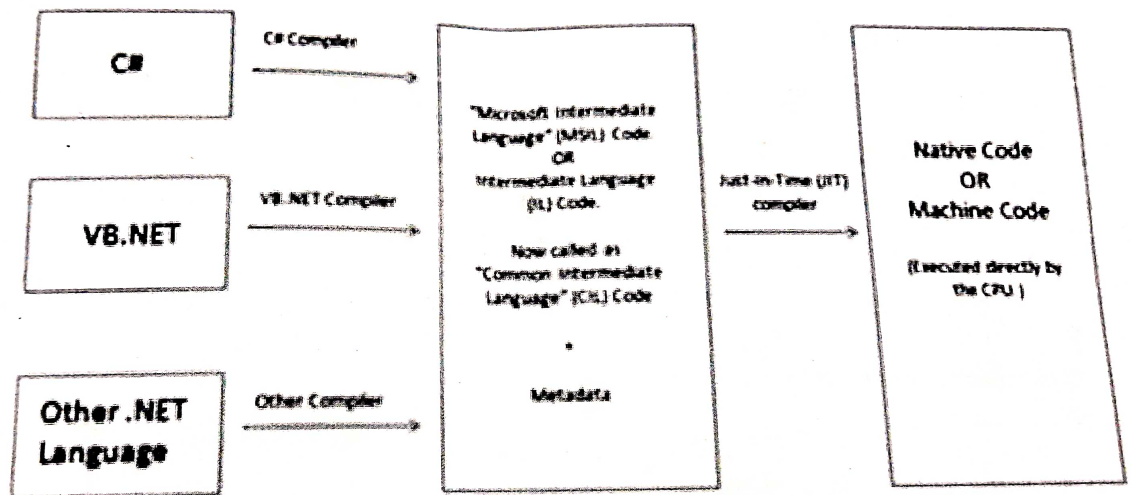
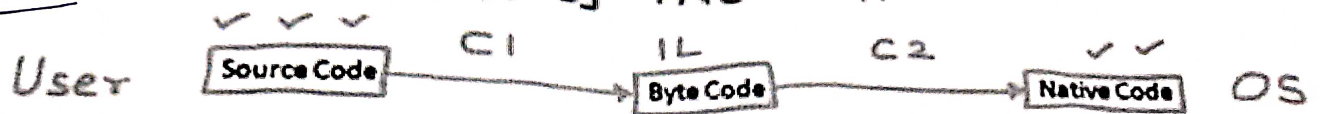
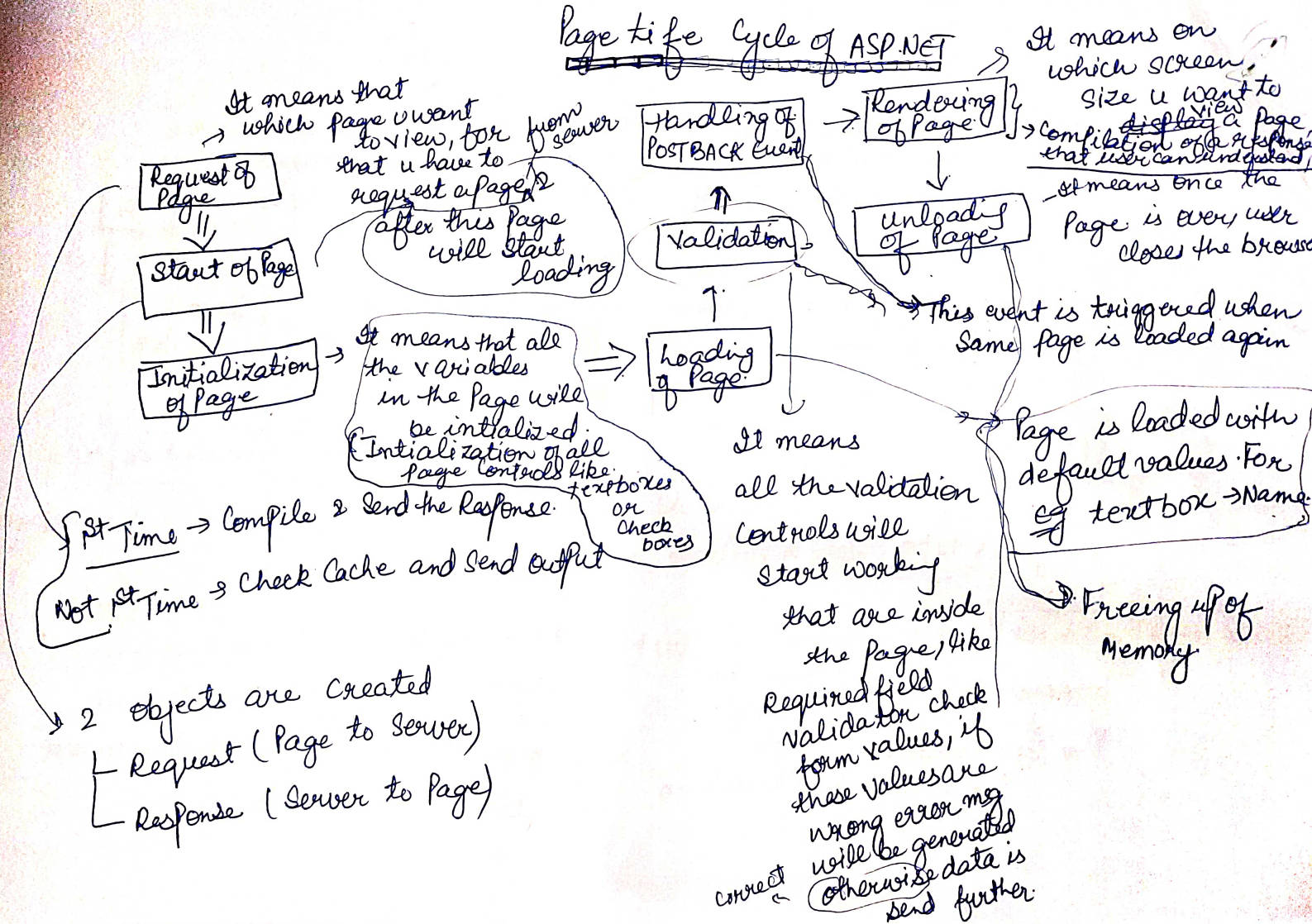


①

## Execution Process of .Net Application



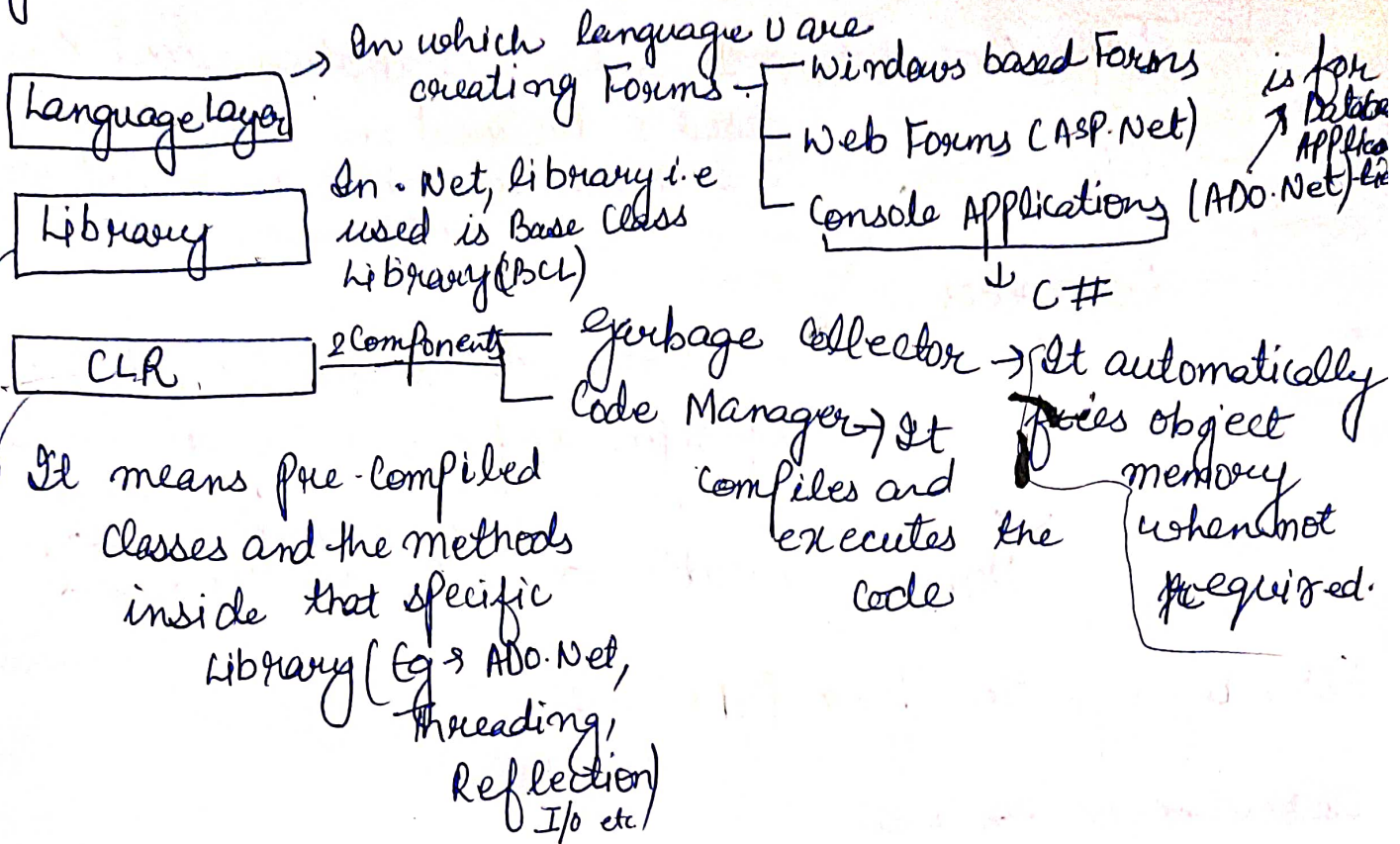
## Page Life Cycle of ASP.NET





# Architecture of .Net Framework and its Components

there 3 layers are in .Net Architecture



It provides runtime environment for execution of .Net Applications

(Also Refer Page 3 - Page 1 of Printout.) → (1-3) [Snapshot Component + Comp. Program.]

→ .Net Framework is s/w development Platform developed by Microsoft. It basically supports multiple language integration.

→ Core Part of .Net Framework is CLASS Library It contains Set of Libra-

eg → If u want to connect with database, ADO.NET Library is req. (series with various methods and Fxns to use)  
For acquiring the datatype information, Reflection Library is required.

→ This means that the main purpose is that we are having some predefined built code and by using that code we can dev/develop our programs. [This is for develop app's.]



## Assembly Structure

Assembly Metadata

→ which assembly we are using and its further information like name, version, list of files and etc.)

Type Metadata

→ It is the information about the types used & declared in the assembly.  
Information about the datatypes, methods and information.

CIL Code

Resources

→ It is the code generated by .Net language specific compiler. MSIL Code we can say.

Non-executable Code, i.e. used inside assembly like sound, images.

## Assembly Definition from Pg 14 (Ch-1)

### Directives in ASP.Net

ASP.Net Directives are instructions to specify optional settings, which code file is used, language etc.

These settings helps in Page rendering & other settings

Syntax → `<% @ directive_name attribute = Value [attribute = Value] %>`

Page Directive → It defines attributes specific to page file for parser and compiler. For eg →

`<% @ Page language = "C#" Inherits = "_Default" %>`  
attribute                      Value

Attribute Types — ① language ⇒ value specifies lang used  
② Auto event wireup = It has a boolean value either True or False (Page events that are automatically bound to methods or it is true otherwise false)

Attributes Contd.

- ③ Code File = "abc.aspx"  
↳ It is <sup>the</sup> name of the code behind file.
- ④ Inherit → It is the name of code behind or other class.
- ⑤ Trace  $\begin{Bmatrix} T \\ F \end{Bmatrix}$  It enables or disables tracing

These attributes are used in both directives (Page & Master)

Master Directives → Specifies a page file as being the master page. It means when u are creating a template & Template will be same on every page. <sup>any</sup> Change in Template will reflect the change on page as well.

Eg → `<% @ MasterPage language = "C#" Inherits = "SiteMaster" %>`

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→ ASP-Net Page Structure from PDF Notes