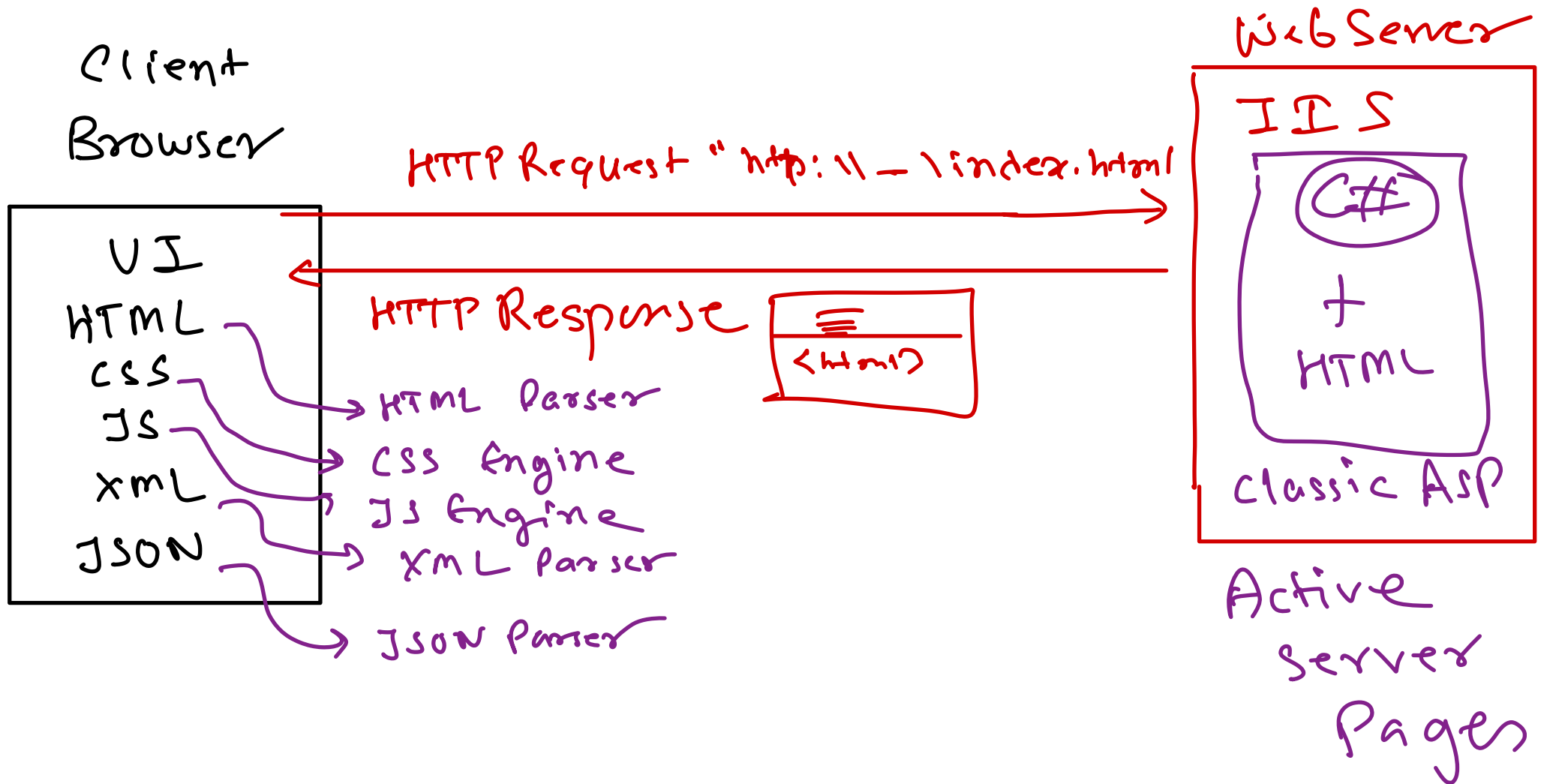
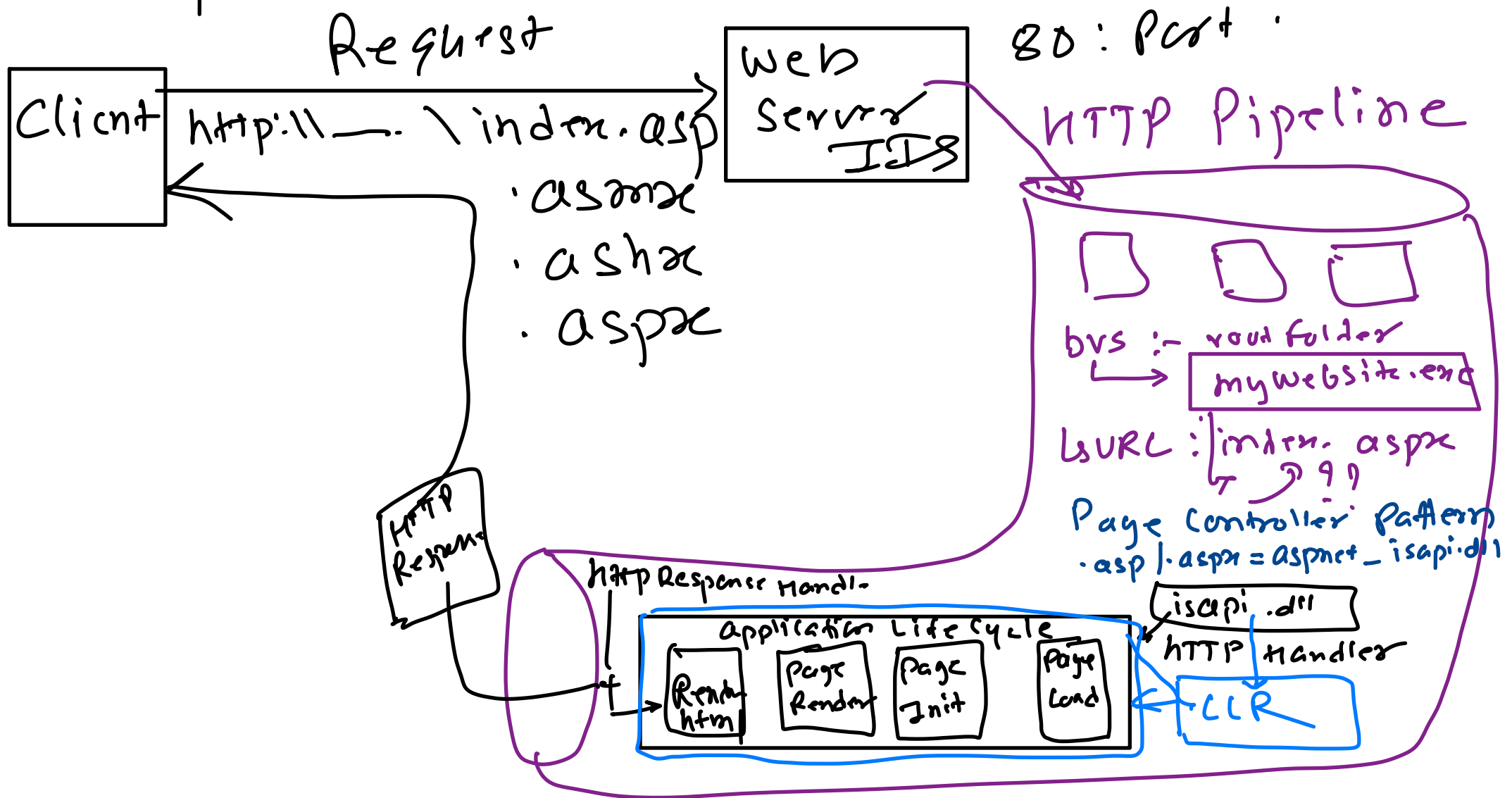


1. Design Pattern, SOLID Principle : OOP
2. File IO and Serialization
3. Collection, Generic, Generic Collection.
4. Events and Delegates.
5. C Sharp Features : LINQ
6. ADO.NET : Connected Architecture  
Disconnected Architecture  
Entity Framework.
7. Custom Attributes,
8. Reflection.
9. GC, Exception Handling
10. Task Parallel Library.

# MVC 8.0 :-



# Asp. Net Web Forms



DrawBack of Asp-Net webform Applications:-

1. All methods either private OR protected, hence UNIT Testing was not possible.
2. less control over html generation.
3. Page state: "View State": This ViewState was making .Net Pages bulky.  
Why ViewState? : becoz HTTP is stateless protocol and to do server side validation/code generation entire page state getting maintained in key-value format. i.e Duplicate Page data.
4. UI and code: tightly coupled.

Asp. Net MVC :- This a framework is designed by microsoft using MVC design architectural pattern.

MVC :-

Model  
Business Entity

View  
Business  
UI/presentation

Controller  
Business  
Logic

MVVM:-

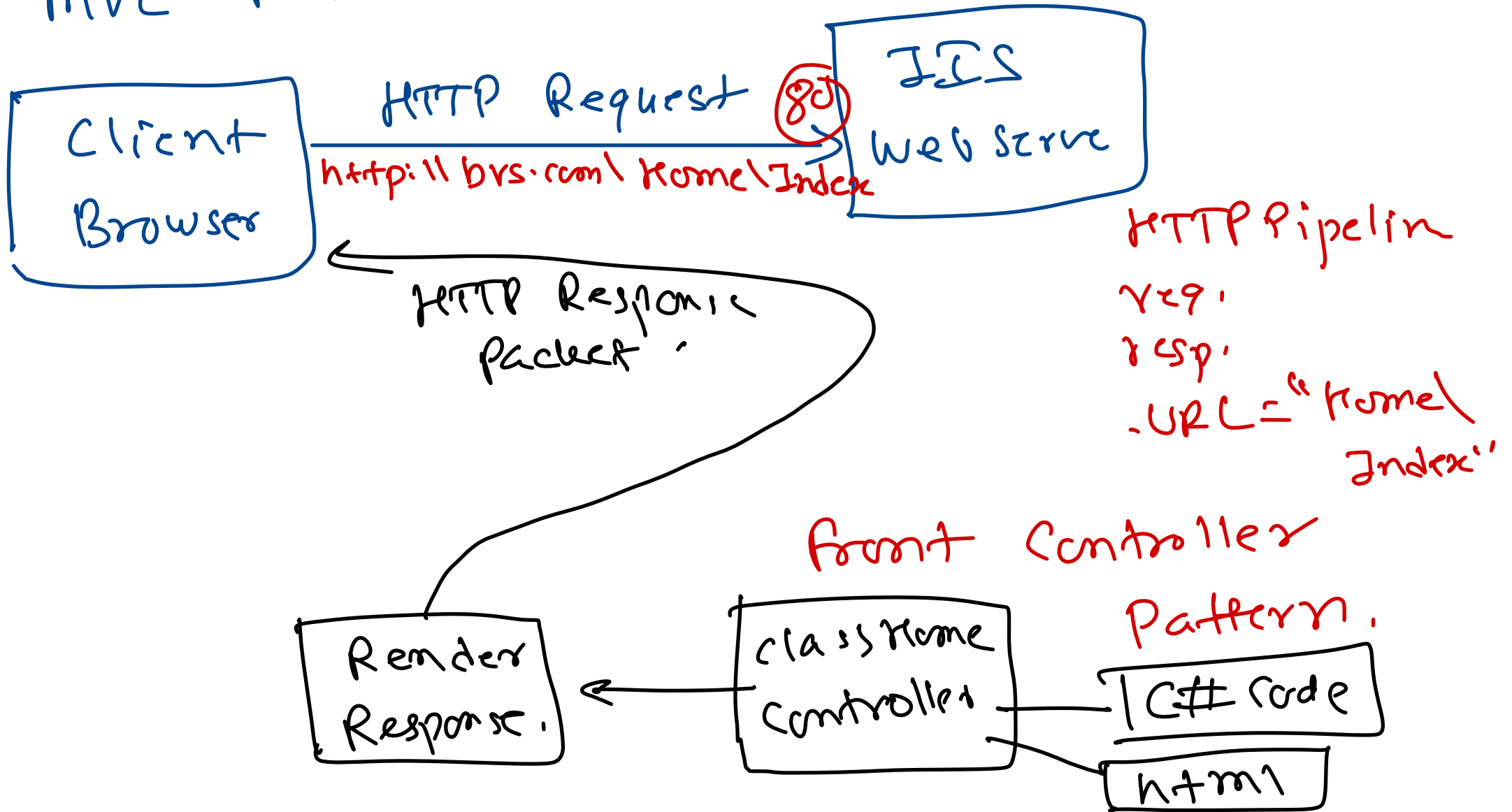
Model  
BE

View  
B. UI

View Model

Controller + ORM

# MVC Pattern:-



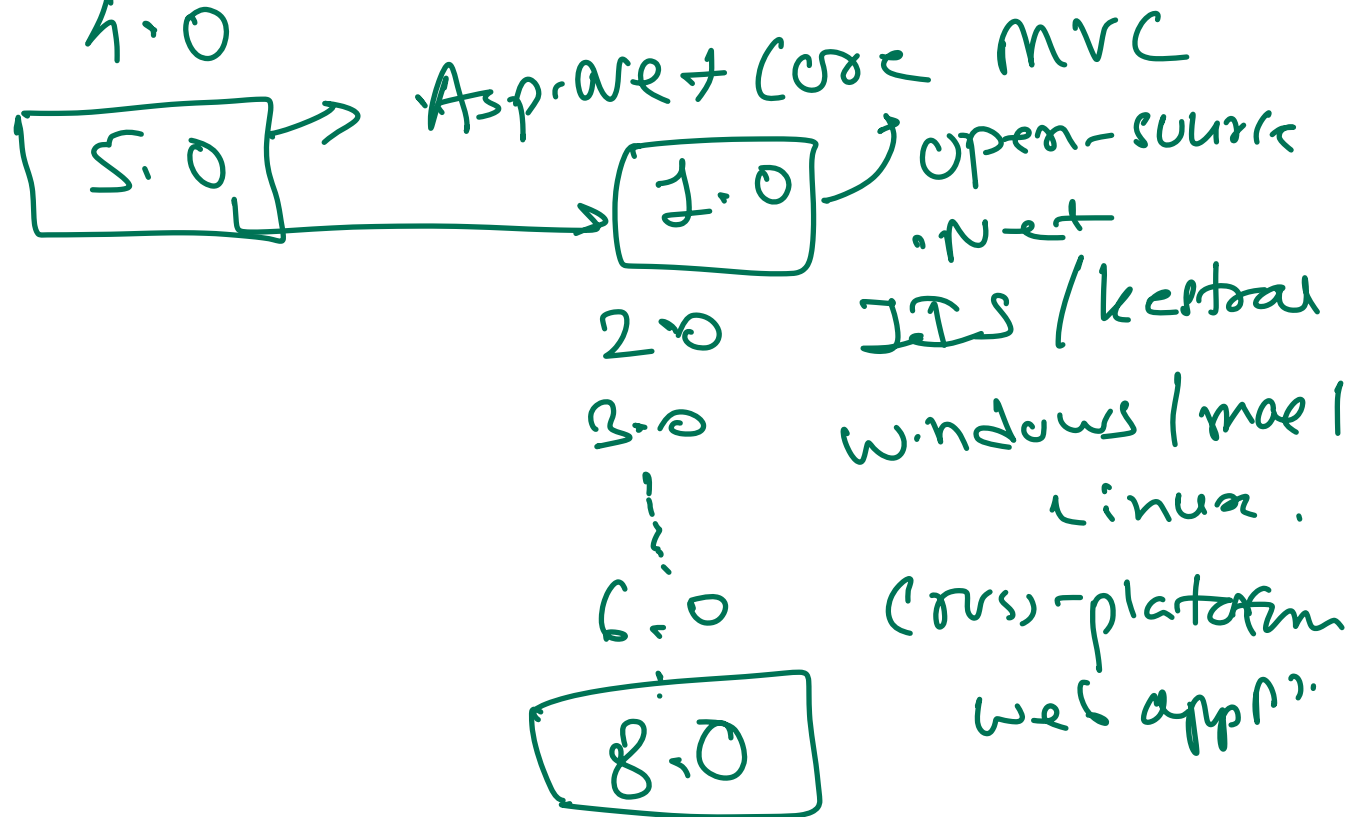
**Drawback:-** only supported for IIS Server

AspNet MVC :- 1.0

2.0

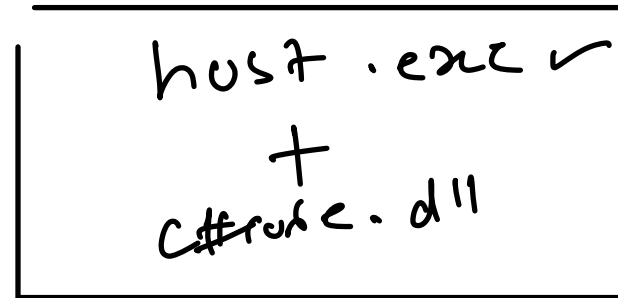
3.0

4.0



IIS

Kestral web  
Server



Kestral.exe



Web Server



# Editor

✓ VS Code

✓ Visual Studio 2022

✓ CLI - Command line Interface.

Client

Browser



... \ Home \ Index

(80)

ITS / Kestral



req

URL = " Home Index"

URL. Split()

→ ([" Home ", " Index "])

<sup>T "controller"</sup>

→ [ "controller" : " Home Controller ",  
"action" : " Index " ]

Controllerfactory factory = new  
Controllerfactory ()

T??

Controller ctrlObj = factory. GetController(  
" Home Controller ")

. InvokeMember ("action",  
ctrlObj);

Http  
Response

View  
Render