Asp. Net core mvc :-

An open-source, cross-platform, architectural design pattern based framework developed by Microsoft to create web Applications, RESTful supported web API's and CLI type of applications.

* Server-side applications.

* Supported windows, Linux. MacOS platforms

* Supported web server : IIS, Kestral

1. MVC Core Life cycle
2. Views and Return Types of Action Methods
3. ViewBag, ViewData and TempData Collections
4. Layout Pages, Bootstrap installation
5. Routing :- Conventional Based Routing
            Attribute Based Routing.

6. View Model
7. Partial Views
8. Asp. Net Tag Helpers and HTML Tag-helpers
9. Filters
10. Sessions
11. ADO. Net → Connected & EF ⟨ Code first
                              ⟨ Database first
12. Web API

Middlewares :— functions

```
app. Use ( async ( context, next) => {
    // This is custom Middleware Response.
    await context. Response. WriteAsync ("Hello HJ");
    await next ( context);
    await context. Response. WriteAsync ("Hello world");
};

app. Use ()
app. Run ( async ( context) => {
    await context. Response. WriteAsync ("H BS");
};

app. Run(); // host and Run this appln
```

Browser

Client
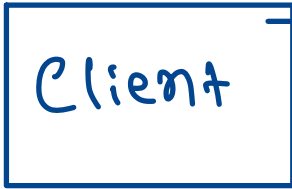
|Home| Index/id
request

IIS
Kestrel

→ 1. Check appl.ⁿ Dir
: root Dir

2. Routing :-

Route Table

"default"	"{ }/{ }"
"default"	"{ }/{ }/{id!}"
"brs"	"{ }/{ }/{id?}/{UN}"
" "	"{ }/{ }/{UN}/{pw}"

In this table: URL pattern : Check

If matches, nexⁱᵗᶜ
split the URL :-

arr = ["controller": "Home Controller",
         "action" : "Index"
         "id"   : "null!? 0"
         "UN"   : " HJ" ,
         "pw"   : " pwD"]

Conventional Based Routing:

```
app. MapDefaultControllerRoute ();

app. MapControllerRoute (
    name: "default",
    pattern: "{ctr = Home}/[action=Index]/[id]"
);
```

1. ViewBag is dynamic object
[ViewData]
   → ViewBag.keyName = ???

            this type get resolved at
                runtime.

   → ViewBag Data is local to that
      action method where we declared it.
      and can not be share between
      multiple action methods and hence
can not pass to multiple views.