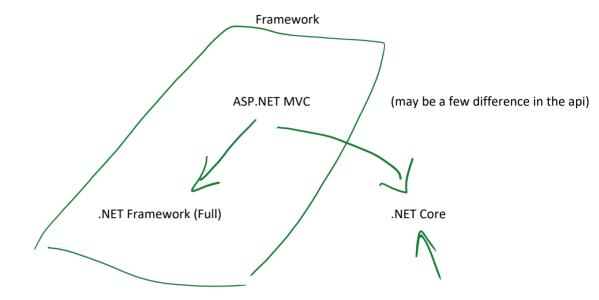
ASP.NET MVC <--- Application Framework <---- Helps you develop the application

.NET Core Application <---- Runtime Framework/Platform <---- helps you execute the application



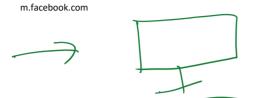
### Http Protocol

Monday, May 11, 2020 10:03 AM

http://m.facebook.com <---- Open Mobile Site

http://www.irctc.co.in/mobile

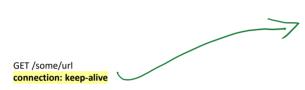
GET m.facebook.com/  $\r \$  User-Agent: chrome, windows10 $\r \$ 



It is a contradiction between the URL and the User-Agent

Url --> give me mobile site
User-Agent --> give me desktiop site





- Request to keep the connection alive
- Don't close the Tcp socket (Please)
- Browsers almost always send this header to the client
- Server can (and very often does) ignore this request

Server Response

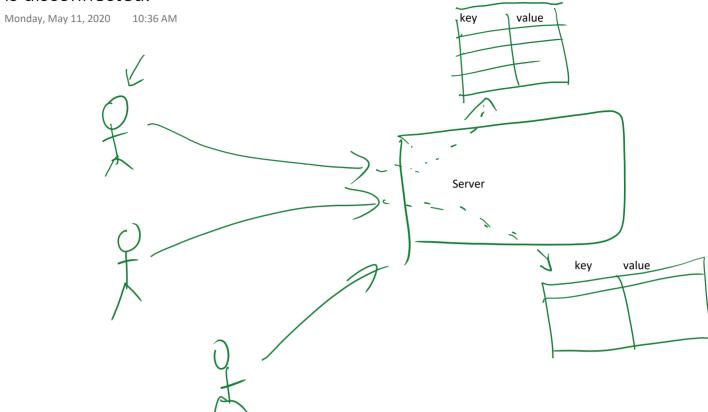
200 OK Content-type:text/html date-modified:2020/04/13

https://books.org/list?cat=thriller

https://amazon.in/proucts?q=mobile-cover&model=samung-note-8

Clients second request

How will server connect a user to its session when socket is disconnected.



# Cache Redirect

Monday, May 11, 2020 11:28 AM

Server Response

200 OK

Content-type:text/html date-modified:2020/04/13

Client Next Response

GET /resource

if-modified-since:2020/01/30

//content changed after clients previous visit

200 OK

Content-type:text/html date-modified:2020/04/13

Client Next Response

GET /resource

if-modified-since:2020/05/04

//content not modifed after the last visit

304 Not Modifed

 $r\n$ 

Cache Redirect

Gets new Data

Can use the existing

Presentation	Business	Data
View	Controller	Model

## Standard Network Port

Tuesday, May 12, 2020 9:26 AM

As an admin I can run any server on any available (free) port.

One Machine ---> One Port ---> One App (One socket)

Standard Practice

First 1K port is reserved for standard protocol

- 20,21 --->FTP
- 25 ---> SMPT80 ---> HTTP
- 110 ---> POP
- 443 ---> HTTPS

- Q. What if I run HTTP Server on a Non Standard Port
- A. The URL Will Change
  - a. <a href="http://books.org:3393/books">http://books.org:3393/books</a>
- now we say the server will be available on paort 3393.
- You can imagine that default url is a shortform for
   http://books.org:80/books

storian.in

o http://books.org:445/books

http://google.com:80

8080 **>** 201.220.343.45 : 80 http://thelostepic.com http://storian.in Hostinger.in http://conceptarchitect.in thelostepic.com

# **MVC URL**

Tuesday, May 12, 2020 10:00 AM

#### **Traditional View**

http://localhost:57586/ <----- index.html/default.html/default.aspx/default.php ---> from root directory

http://localhost:57586/Home/Contact <----- index.html/default.html/default.aspx from /Home/Contact directory

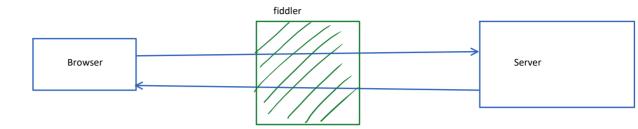
http://localhost:57586/Home/About

http://localhost:57586/books.html <---- request for books.html file in root directory

 $\underline{\text{http://localhost:}57586/\text{Hom}}\text{e/About/authors.aspx} < ---- \text{ execute authors.aspx page from /Home/About folder}$ 

# How Fiddler Works

Tuesday, May 12, 2020 10:41 AM



### Controller--->Action--->ActionResult

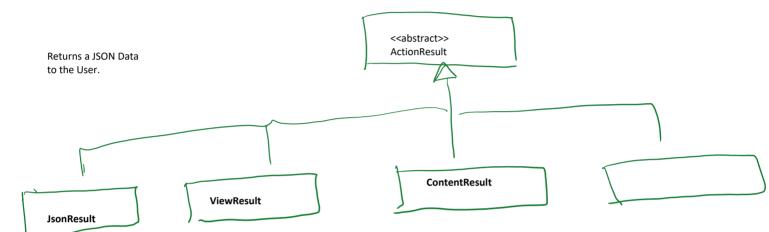
Tuesday, May 12, 2020 11:38 AM

- 1. An Url is a request for a Controller to perform some Action
- 2. Once an Action is performed it returns an ActionResult
- 3. ActionResult is returned to the User As a View

Controller ----> is an object Action ----> is what controller do

ActionResult ---> return of the Action

View ---> what user sees (ActionResult)



### ViewResult

ViewResult uses a ViewEngine to generate a dynamic Html View using Model Data and a ViewTemplate

### ContentResult

One of the simplest ActionResult It returns a given String content to the user without any processing.

If your **Action** is not returning an **ActionResult** The current object is autmatically converted to **ContentResult** by the controller

```
A code like
```

```
public Person Contact()
{
    var p=new Person();
    return p;
}
```

#### Is internally converted to (psudocode)

```
public ContentResult Contact(){
    var p=new Person();
    return new ContentResult()
    {
        Content=p.ToString()
    };
}
```

This happens with the base Controller

# Razor view engine processing

Tuesday, May 12, 2020 12:26 PM

Razor is one of the simplest view engine to combine view template (HTML) with C# Code (CS+HTML = CSHTML)



**Razor Display Expression** 

@something

It is a shortcut for

@{ Response.Write(something); }

Notice there is no semicolon after simple razor expression what ever you type automatically used as argument to Response.Write()

Also Note @is automatically closed when it finds html code

Razor Block Code

@{ //razor block }

You can write any processing statement, assignments etc in this block. This block doesn't have direct output on the screen unless you write Response.Write()