IP   domain

DNS

ip	domain

client   HTTP   server

browser

Http request

app

IIS

Http response

Http verb ,method

Get
Post
Put
Delete

Connection string

DBserver

DB

sqlserver

Http request   Get ,delete => nobody

Verb +URI

head   Metadata about connection   Post,put => body

Http status code

data   2XX

body

URI ,URL   3XX

Uri= url +urn   4XX

uri

http://www.facebook.com/home/profile.php

urn   5XX

url

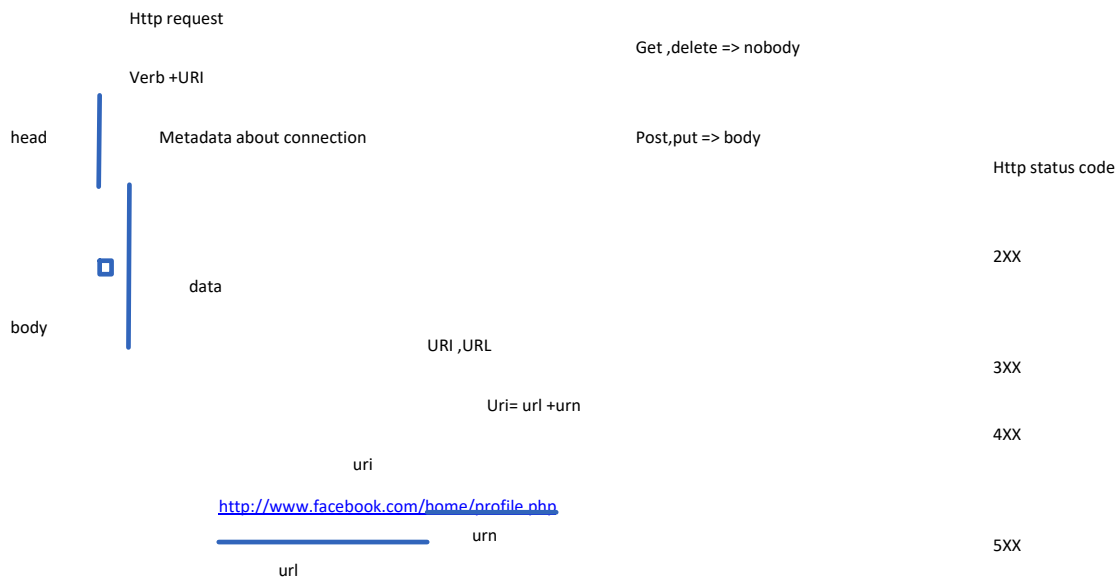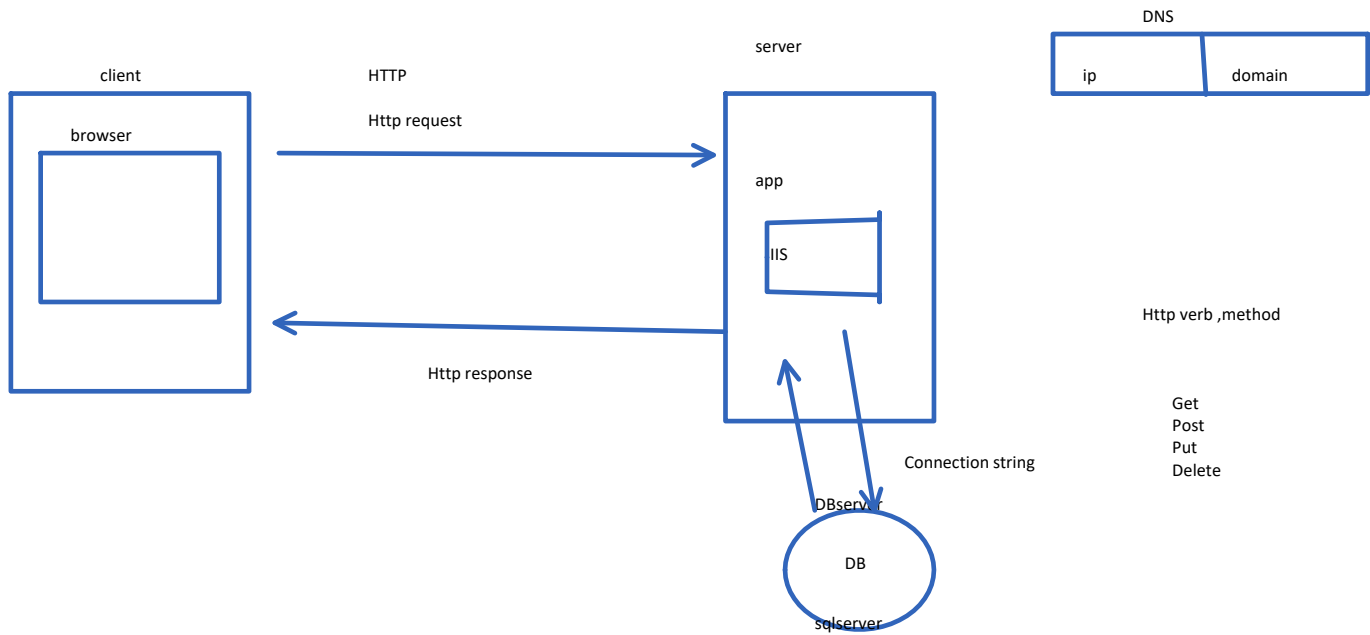mvc   android   java

web   mobile   desktop

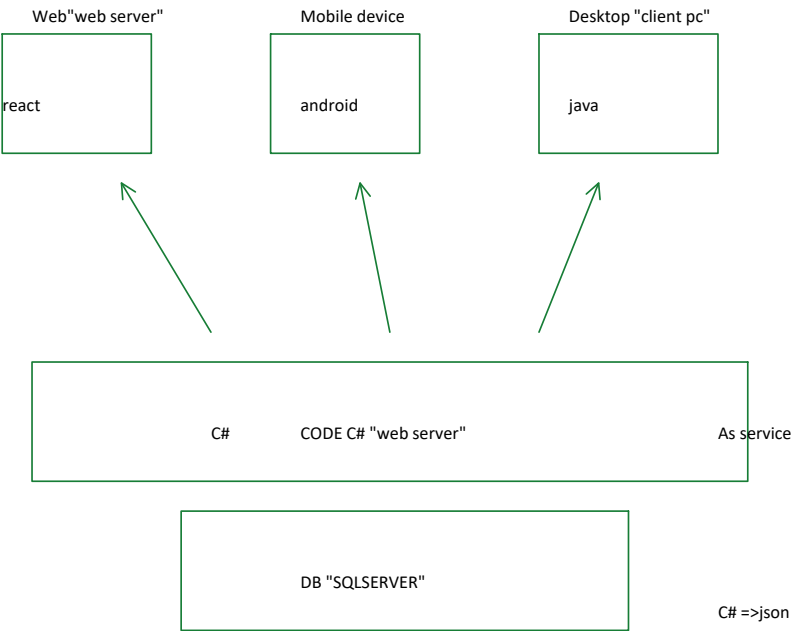Html+cs   Xml+android   Java ui   GUI

Crud student

C#   kotlien   code

java

sqlserver   sqllite   Oracle   DB

sqlserver   sqllite   Oracle   DB

Web"web server"   Mobile device   Desktop "client pc"

react   android   java

Machine calling   Restful model
                       Rest
                       Httpservice
                       Webapi
                       Http api
                       Rest api

                       Http/s
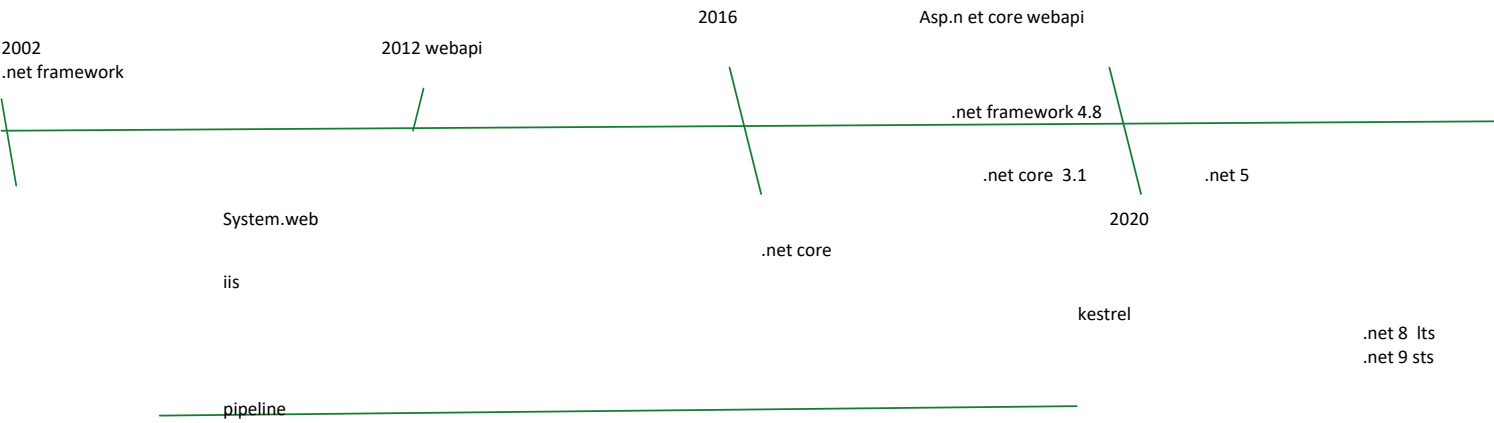
Method calling

                       url

C#   CODE C# "web server"   As service   Send,rec data

                                                              JSON ,XML

                                            Service desc   Help page

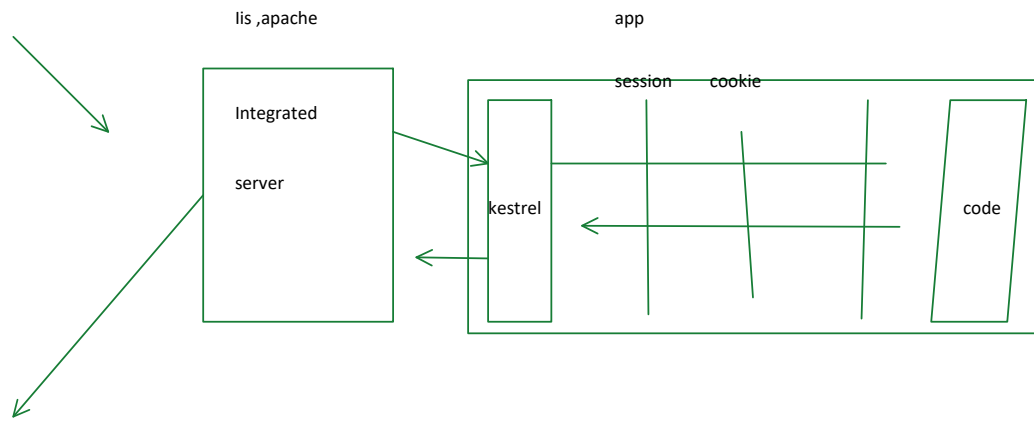DB "SQLSERVER"

C# =>json   =>serlize

Json=>java obj   deselize

```
<student>
<id>1</id>
<name>ali ahmed </name>
<age> 22</age>
</student>
```

Asp.net web api 2012

WCF

2016   Asp.n et core webapi

2002   2012 webapi
.net framework

.net framework 4.8

.net core 3.1   .net 5

System.web   2020

iis   .net core

kestrel

.net 8 lts
.net 9 sts

pipeline

Iis ,apache

app

session   cookie

Integrated

server

kestrel

code

MVC ,web api =>MC

v=>views

Consumer client

Front-end "UI"

Controller => class

Actions =>method

c=> controller   Class =>logic

Http/s

Url

Back-end "code"   api   Json

Help page

M => model

Class =>db

MVC   api

db
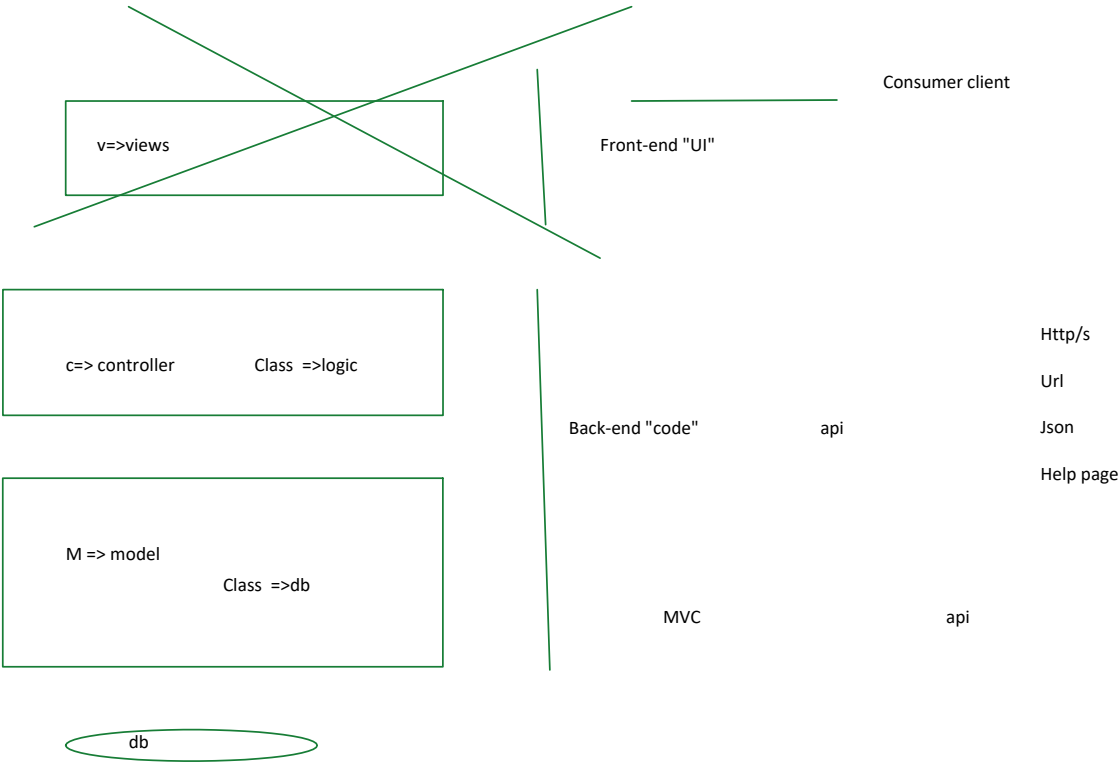
[httpget]
"api/students"

Verb+url

Getall ()

Select =>httpget
Add =>httppost
Edit =>httpput
Delete =>httpdelete

Get by id(id)

[post]
"api/students"
Add(student)

Edit ()

Lab

List <courses>
Course (id , name ,duration)

Design api to manage courses

-Getall
-Get by name
-Add

Tet api from swagger