

15/10/24

* Web:

→ Client/Server Architecture

→ Port: 80

→ Basic Language: HTML

* HTML:

* Heading: <h>

Paragraph <p>

Division <div>

→ Web Page not only contains HTML.

- Inline Element (In same line)
- Block Element (Step by step elements)
(In different line).
- <div> (Block level element)
(Divide a page)
- (Inline element) (container)
(On same line)
- , <h>, , , <p>
- To choose our own place of elements we use CSS
(Visual appearance) (Position) ^(cascading style sheet)
- For behavior in page, we use javascript.
- Page $\begin{cases} \rightarrow \text{HTML} \\ \rightarrow \text{CSS} \\ \rightarrow \text{JavaScript} \end{cases}$
- Form tag which take input from User. It needs to be saved to Server side DB.
(Using ASP.NET)
- Razor Pages, MVC Pattern, Single Page Application Blazor
(These can be used ^{by} page to make

web application dynamic).

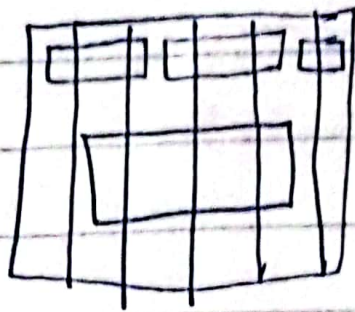
① Bootstrap will be used.

② FlexBox and Grid style

is used for positioning of elements.

(Main, Header, Footer). It can also be done using simple CSS.

③ Bootstrap divides the page into 12 columns.



④ MVC (Model View Controller):

→ One application is divided into 3 parts:

(i) View

(HTML)

etc....
(Includes interfaces)

(ii) Controller

(Control the flow of application) (Brain)

(iii) Model

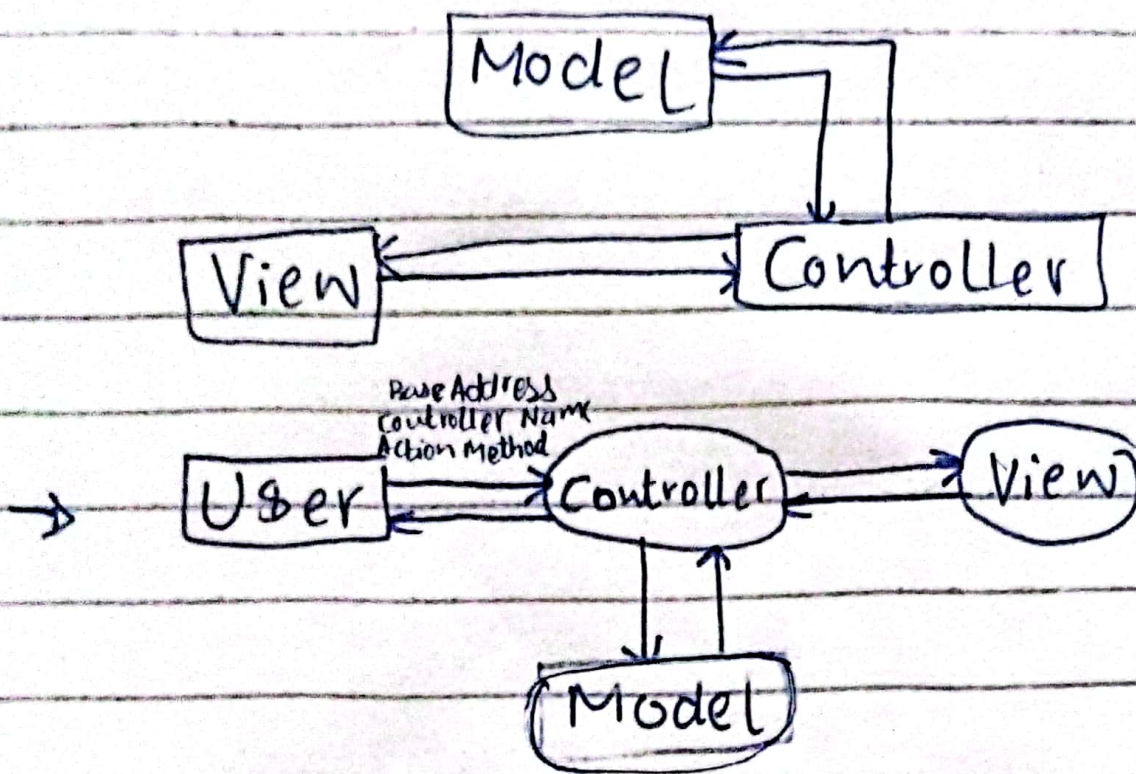
(Those classes which represent Business)

(CMS (Course, Student, Faculty etc....))

Work is done according to use-case

Problem contains Entities

* MVC Diagram.



* Actions in controller : Add, Update, Delete for student

* MVC using : (1) Controller Name (2) Action Method

* Multiple controller can be used in web. It is made based on entities. Action Method are defined in Controller.

* Search template : (i) ASP NET core App (Razor Pages)

(iii) Blazor web App

(ii) Model View Controller. (ASP.NET core web App) (Model View Controller)

* Visual Studio Installer (ASP.NET) AND web Development

(Model View Use)

* MyFirst MVC Project

(In solution Explorer) WWW root folder (css, js, lib)

(site.css) (site.js) (Bootstrap JQuery Libraries can be added into it.)

* Add → New Folder → Images

* Controllers → HomeController.cs

(Any Name)

(This naming convention would be followed) (student controller)

* Starts with "I", its interfaces.

* Class Represents real world object.
(Entities, Functions, Properties)

* Interface:

→ Abstract - level thing which defines what this entity will do.

→ Function Definition.

→ Logger (Application behavior log)
(For crashing of App) (Real Deployment contains log)

* public string Index()
{

return "My First MVC Application";

}

(controller)

(Action)

→ Home / Index

→ MapController

→ Inspect → Network Tab (Enter)

Response ← Click on Action Button

New
Action
method

```
public ViewResult About()  
{  
    return View();  
}
```

→ Now we will create View

(View Folder in Solution Explorer)

(Home → Add → View → Razor

About ← View Empty)

→ <html>

<body>

<h1> my first MVC Application
view </h1>

<body>

<html>

→ Base Address / Home / About
(controller)

→ Model → Add → class → Product

(Id, Name, Desc, Price) Properties ←

→ New Controller → Add → Controller

Product Controller ← MVC Empty ←

add Project Name:
using MyFirstMVC.Models;
(In Namespace MyFirstMVC)

(csharp html) can be embedded

→ public IActionResult Index()

{

Product product =

product.Id = 1;

product.Name = "Mobile"

product.Description = "This is a Mobile"

product.Price = 10;

}

return View(product);

: object model

→ New View → Folder(Product)

Index ← Add view

↳ HTML (simple)

(to embed C#)

ch1: Current Time : @System.

DateTime.Now

: (Browser only receives HTML) (Not Csharp)

ch1

: View Page Source (contains HTML only)

: All Processing on Service side.

<div>

<p> @ Model.Name </p>

" " " .Price "

" " " .Description "

</div>

: save changes
By red
Button.