MVC

Tips

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Mvc is an architectural pattern.

Model – application data and behaviour

Controller – handles http requests

View – user interface

Router – selects right controller to handle requests

What is MVC architecture advantages and disadvantages?

A main advantage of MVC is **separation of concern**. Separation of concern means we divide the application Model, Control and View.

TFS? Team foundation version control. Built in version tracker for vs

Folder structure:

APP\_DATA – contains data base

APP\_START – initializes when app starts

Content folder – resources, css, client side

Controllers – contains controllers

Models – domain classes

Scripts – contains JS files

View – front end

Contains folder with same controller name

Favicon – icon of website

Global.asax - contains hooks

Packages.config - similar to package manager. Contains dependencies. Nugget

Startup.cs -

Web.config - xml that contains configuration for the app

https://www.youtube.com/watch?v=E7Voso411Vs

Initial steps

Stantiate the model/domain logic

Install resharper in VS. Makes coding efficient

Create view.

Reference the model.

Use available layout template in view folder

CS should be same name with controller function?

Create controller

Reference the model.

Set name property function

ViewResult and ActionResult – return types for View

Bootswatch – site containing bootstrap themes

Modify bundle config in app\_start to change initiated bootstrap css file

Controller returns?

ViewBag is a property considered as a dynamic object

https://www.youtube.com/watch?v=pc843B1ZNuI

In MVC, routing is **a process of mapping the browser request to the controller action and return response back**. Each MVC application has default routing for the default HomeController. We can set custom routing for newly created controller. The RouteConfig. cs file is used to set routing for the application.

By using Routing, **it will make use of URLs where there is no need of mapping to specific files in a web site**. This is because, for the URL, there is no need to map to a file, you can use URLs that are descriptive of the user's action and therefore are more easily understood by users

Action Result return type

Redirect

Redirect to action

Json

Javascript

The HtmlHelper class renders HTML controls in the razor view. You are able to access html methods and html forms such as textbox and such.

he difference between calling the HtmlHelper methods and using an HTML tags is that the HtmlHelper method is designed to make it easy to **bind** to view data or model data.

Mvc lifecycle??

Request response?

User enter URL = requests

Routing table = contains all predefined patterns

MVCHandler = creates controller instance

Controller = action execution

Controller = viewresult

ActionResult Parameters

<https://www.c-sharpcorner.com/blogs/action-method-parameters-in-asp-net-mvc>

The common way to access a database from inside an ASP page is to:

1. Create an ADO connection to a database
2. Open the database connection
3. Create an ADO recordset
4. Open the recordset
5. Extract the data you need from the recordset
6. Close the recordset
7. Close the connection