1. **What is full form of MVC? What are the benefits of MVC?**

**Ans Model View Controller**

1. **Difference between View() and RedirectToAction()?**

**Ans Public class AccountController : Controller**

**{**

**Public IActionResult Index()**

**{**

**Return view();**

**}**

**Private readonly ApplicationDbContext \_dbcontext;**

**Public AccountController(ApplicationDbContext context)**

**{**

**\_dbcontext = context;**

**}**

**[Httget]**

**Public IActionResult Register()**

**Return view(new=RegisterViewModel());**

**}**

**[Httpost]**

**Public IActionResult Register(RegisterViewModel user)**

**{**

**If(ModelState.Isvalid)**

**{**

**\_dbcontext.Accounts.Add(user);**

**\_dbcontext.saveschanges();**

**Return RedirectToAction(“Login”,”Account”);**

1. **}**
2. **Return View(user);**
3. **}**
4. **What is Razor Syntax “@” and why it is used?**
5. **What are controllers why they are used in ASP.NET Core MVC?**

**Ans Controller (add, Controller)**

**{**

**using Microsoft.AspNetCore.Mvc;**

**using System.Text.Encodings.Web;**

**namespace MvcMovie.Controllers;**

**public class HelloWorldController : Controller**

**{**

**//**

**// GET: /HelloWorld/**

**public string Index()**

**{**

**return "This is my default action...";**

**}**

**//**

**// GET: /HelloWorld/Welcome/**

**public string Welcome()**

**{**

**return "This is the Welcome action method...";**

**}**

**}**

**}**

**MVC Controller-Empty(Razor View Empty)**

1. **What does appsetting.json file is used for?**

**Ans {**

**"Logging": {**

**"LogLevel": {**

**"Default": "Information",**

**"Microsoft.AspNetCore": "Warning"**

**}**

**},**

**"AllowedHosts": "\*",**

**"MyCustomKey": "MyCustomKey Value coming from appsettings.json"**

**}**

**“connectionString”: {**

**“My\_String”: “”**

**}**

1. **How does work Viewstart in MVC (ASP.Net)?**

**Ans**

1. **What is Entity Framework in MVC?**

**It is a data access framework which used to create and test data in the visual studio. It is part of .NET Framework and Visual Studio. The latest package is shipped as Entity Framework NuGet Package. The latest version is Entity Framework 7.0**

1. **What is program.cs file is used for?**

**Ans builder.Services.AddControllersWithViews();**

**Builder.Services.AddDbContext<ApplicationDbContext>(options=>options.UsesqlServer(builer.Configuration.GetConnectionString(“My\_String”)));**

1. **How to connect to ASP.NET Core Web App (MVC) project to SQL Server Database?**

**Ans Sql Server object Explorer(add sql server) connect**

1. **What is IActionResult() in ASP.NET Core MVC?**

**Ans [HttpGet("asyncsale")]**

**public async IAsyncEnumerable<Product> GetOnSaleProductsAsync()**

**{**

**var products = \_productContext.Products.OrderBy(p => p.Name).AsAsyncEnumerable();**

**await foreach (var product in products)**

**{**

**if (product.IsOnSale)**

**{**

**yield return product;**

**}**

**}**

**}**

1. **Difference between Empty Controller and Controller with Entity Framework?**

**Ans using System;**

**using System.Collections.Generic;**

**using System.Linq;**

**using System.Web;**

**using System.Web.Mvc;**

**using Sqlclient;**

**namespace MVC\_BasicTutorials.Controllers**

**{**

**public class StudentController : Controller**

**{**

**public string Index()**

**{**

**return "This is Index action method of StudentController";**

**}**

**}**

**}**

1. **How many packages needed to perform crud operation in ASP.NET Core MVC?**

**Ans (Controller),(Models).(appsetting.json , program.cs)**

1. **Name all packages that are needed for crud application in ASP.NET Core MVC?**

**Ans New Project, Asp.Net Web Application(.Net Framework) C# Manage Nuget Packages**

**Microsoft.EntityFramework.core**

**Microsoft.EntityFramework.sqlserver**

**Microsoft.EntityFramework.Tools**

**Microsoft.Visualstudio.web.codegeneration.Design**

1. **Which of the following is not a valid HTTP method for an ASP.NET MVC action? (GET,POST,DELETE,PUT)**
2. **What is the purpose of routing in ASP.NET MVC?**

**Ans public static void RegisterRoutes(RouteCollection routes)**

**{**

**routes.MapRoute(**

**"Default", // Route name**

**"{controller}/{action}/{id}", // Route Pattern**

**new { controller = "Home", action = "Index", id = UrlParameter.Optional } // Default values for above defined parameters**

**);**

**}**

**protected void Application\_Start()**

**{**

**RegisterRoutes(RouteTable.Routes);**

**//To:DO**

**}**

1. **Explain the difference between ASP.NET MVC and ASP.NET Core MVC?**

**Ans** We can add reference of any assembly, library or any third-party package with the help of Nuget Packages. When we run the download of these packages using NuGet Manager Console, all the packages have been downloaded in the Packages folder within the Project folder hierarchy. ASP.NET Core came up with storing all the packages related to its development in Users folder and whereas creating ASP.NET Core applications, Visual Studio will reference them from Users folder. This feature is called Runtime Store for .NET Core a try of presently though you have got around 100 sample ASP.NET Core applications, all of them area unit referencing from dotnet in Users folder that's almost few MBs entirely.

1. **What is the purpose of the [HttpGet] attribute in an ASP.NET MVC controller action?**

**Ans public class ProductsController : Controller**

**{**

**public IActionResult Details(int id)**

**{**

**return ControllerContext.MyDisplayRouteInfo(id);**

**}**

**}**

1. **What is the purpose of the [HttpPost] attribute in an ASP.NET MVC controller action?**

**Ans <form method="post" action="">**

**<table>**

**<tr>**

**<td> Enter First Number</td>**

**<td> <input type="text" id="i1" name="n1" /></td>**

**</tr>**

**<tr>**

**<td>**

**Enter Second Number**

**</td>**

**<td>**

**<input type="text" id="i2" name="n2" />**

**</td>**

**</tr>**

**<tr>**

**<td colspan="2">**

**<input type="submit" value="Sum" />**

**</td>**

**</tr>**

**</table>**

**</form>**

1. **What does ModelState mean in ASP.NET Core MVC?**
2. **What is the purpose of DbContext file?**
3. **What are the migration commands to create table ?**

**Ans Add-Migration “Innitial AccountDB”, Update-Database**

1. **How to create Classes in Model? And why they are created?**

**Ans {**

**public class Doctor**

**{**

**[Key]**

**Public int doctor\_id { get; set; }**

**[Column(TypeName =”nvarchar(100)”)]**

**Public string doctor\_name { get; set; }**

**[Column(TypeName =”nvarchar(100)”)]**

**Public string doctor\_specification { get; set; }**

**[Column(TypeName =”nvarchar(100)”)]**

**Public string doctor\_email { get; set; }**

**}**

**}**

**In the next several pages, we will be making updates to coding-events to demonstrate model creation, how models relate to data, and the practice of model binding. The first of these steps is to move data handling out of our controller classes and into a model class. As we discussed on the previous page, the controller class is not responsible for holding data.**

1. **What is the purpose of the ViewData object in an ASP.NET MVC application?**

**Ans public ActionResult Index()**

**{**

**IList<Student> studentList = new List<Student>();**

**studentList.Add(new Student(){ StudentName = "Bill" });**

**studentList.Add(new Student(){ StudentName = "Steve" });**

**studentList.Add(new Student(){ StudentName = "Ram" });**

**ViewData["students"] = studentList;**

**return View();**

**}**

1. **Which of the following is an advantage of using a View Model in an ASP.NET MVC application?**
2. **How to create primary key in ASP.NET Core MVC?**

**Ans Add "EntityFramework" nuget package to the Console Application**

**If you want to install from Package Manager Console (View -> Other Windows -> Package Manager Console) use command:  
Install-Package EntityFramework**

**You can install the same from the Manage Nuget Package GUI. Right click on the console project and select "Manage Nuget packages". It will bring the "Manage Nuget Packages" window. From the left side, select "Online" tab and search for "EntityFramework". Choose the correct package and click "Install".**

1. **What does Layout file do?**

**Ans DoctorLayout.cshtml**

1. **Difference between Web forms and ASP.NET?**

**Ans Asp.Net Web Form has server controls and Asp.Net MVC has HTML helpers.**