Module-2

1. What is .net Core?

.Net core is new version of .NET Framework, which is a free, open-source, manage computer software framework for window , Linux and macOS operating system

1. What is Core CLR?

coreCLR is the runtime for .NET Core. It include the garbage collector, JIT complier, primitive data type and low-level classes.

1. What is role of client?

The client is the person for whom the project is carried out. In the case of notifiable projects, clients must appoint a principal Designer and a Principal Contractor.

1. What is role of server?

The role of a server is to share data as well as to share resources and distribute work. A server computer can serve its own computer programs as well, depending on the scenario, simply a technical possibility.

1. What is client server architecture?

Architecture of computer network in which many clients request and receive service from a centralized server. Client computer provide an interface to allow a computer user to request services of the server and to display the result the server returns.

1. What is role of compiler?

complier, computer software that translates source code written in high-level languages into a set of machine-language instructions that can be understood by a digital computer’s CPU. Compilers are very large programs, with error-checking and other abilities.

1. What is difference between Compiler and Interpreter?

A complier takes a program as a whole. An interpreter takes single lines of a code. The compliers generate intermediate machine codes. The interpreter never generate any intermediate machine codes.

1. How is .Net Core different from .Net Framework?

.Net Core does not support desktop application development and it rather focuses on the web , windows mobile , and window store.

.Net Framework is used for the development of both desktop and web application as well as it supports windows forms and WPF application.

1. What is MVC?

The Model-View-Controller (MVC) is an architectural pattern that separates an application into three main logical components: the **model**, the view, and the controller.

Model: the model is data related

View: The View component is used for all the UI logic of the application.

Controller: Controllers act as an interface between Model and View components to process all the business logic and incoming requests, manipulate data using the Model component and interact with the Views to render the final output.

1. What is communication protocol and what is difference between HTTP and HTTPS?

HTTPS uses TLS to encrypt and HTTP is request and responses and to digital sign those request and responses.

So HTTPS is far more secure than HTTP.

1. Explain Services in .Net Core?

There are basically two types of services in ASP.NET Core : Framework Services which are a part of asp.net core framework such as IApplicationBuilder, IHostingEnvironment

Application Services: the services which you as a programmer create for your application.

1. Explain Middleware Components?

Its primary components are in memory and enterprise application servers, as well as web servers and content management. It’s includes tools that support application development and delivery ,such as web servers, application servers and content management system.

1. Explain What is Request Pipeline?

The request pipeline is the mechanism by which request are processed beginning with a request and ending wit response. The pipeline specifies how the application should respond to the HTTP request.

1. Where do you find the Middleware in .Net Core?

Middleware can be built-in as part of the .Net core framework, added via NuGet packages, or can be custom middleware. The middleware components are configured as part of application startup class in the configure method.

1. What is difference between Asp.Net webform and .Net Core?

| **ASP.Net** | **ASP.NET CORE** |
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| Asp.Net Build for Windows | Asp.Net Core Build for Windows, Mac and Linux |
| Asp.Net has a Good Performance | ASP.Net core has higher performances than ASP.Net 4x. |
| Asp.Net MVC application added Web.config, Global.asax, Application Start. | Core did not support Web.config and Global.asax files. It is supporting appsettings.json. |
| Asp.Net Supports WebForm, Asp.Net MVC and Asp.Net WebAPI. | Asp.Net Core does not support WebForm. It supports MVC, Web API and Asp.Net Web pages originally added in .Net Core 2.0. |