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Class – B.Sc (CS) Entire

Subject – C# Programming

Introduction To Asp.Net

- ASP.NET is a web application framework designed and developed by Microsoft.
- ASP.NET is open source and a subset of the .NET Framework and successor of the classic ASP(**A**ctive **S**erver **P**ages).
- ASP.NET is built on the CLR(Common Language Runtime) which allows the programmers to execute its code using any .NET language(C#, VB etc.).
- It is specially designed to work with HTTP and for web developers to create dynamic web pages, web applications, web sites, and web services as it provides a good integration of HTML, CSS, and JavaScript.

- Asp.Net is a server side technology i.e. It runs on web server.
- It provides integration of HTML, CSS and JavaScript.
- ASP.NET is used to produce interactive, data-driven web applications over the internet.
- It consists of a large number of controls such as text boxes, buttons, and labels for assembling, configuring, and manipulating code to create HTML pages.

- ASP.NET provides three development styles for creating web applications:

➢Web Pages

➢Web Forms

➢ASP.NET MVC

ASP.NET Web Pages

- It is used to create dynamic web pages.

- It provides fast and lightweight way to combine server code with HTML.

- It helps to add video, link to the social sites.

- It also provides other features like you can create beautiful sites that conform to the latest web standards.

Web Forms

- It is an event driven development framework.

- It is used to develop application with powerful data access.

- It provides server side controls and events to create web application.

- It is part of the ASP.NET framework.

ASP.NET MVC

- It gives us a MVC (Model View Controller), patterns-based way to build dynamic websites.

- It enables a clean separation of concerns and that gives you full control over markup for enjoyable, agile development.

- It also provides many features that enable fast development for creating outstanding applications.

Advantages of ASP.Net

- Asp.Net is purely server-side technology, so the code is processed on the windows server before it is displayed in the web browser. Therefore, ASP.net applications execute more quickly than interpreted scripts.

- ASP.Net features such as early binding, JIT compilation, caching services and native optimization supports to get high level of performance.

- Asp.Net framework is language independent, means you can choose any programming language (C#, J#, VB, etc) which best suited to your application.

- The Common Language Specification data types in all .Net applications are similar, so no Type conversion is necessary when calling.Net methods, C++, C# from Visual Basic, or Vice Versa.
- ASP.NET provides full support for XML, CSS and other new as well as established web standards.
- Introduction of view state helps in maintaining state of the controls automatically between the postbacks events.
- With the built-in configuration information, Asp.Net is easy to deploy. There is no need to register components because the configuration information is built-in.
- Finally, Asp.Net reduces the line of code needed to develop large applications.

THANK YOU