1. Why should we learn ASP.NET?

There are plenty of good reasons to use ASP.NET when developing a website or an application. High speed, low cost, and vast language support are among the most significant benefits. ASP.NET is built into the familiar Windows server environment, requiring less setup and configuration than other web development platforms that must be installed and configured separately. The popularity of ASP.NET makes online resources and skilled developers easy to find. Websites and applications built with ASP.NET can be faster and more efficient than a website build with PHP.

1. Where can be find the best resources for learning ASP.NET?

The best resources for learning ASP.NET could be found on the website below:

<https://hackr.io/tutorials/learn-asp-net>

1. What is MVC architecture and what does each layer of this pattern represent?

Model view controller (MVC) is an architectural pattern usually used in web-based applications. It provides three main layers; model, view, and controller. Many developers use MVC as a standard design pattern. It is a complete framework. MVC provide three types of classes:

A. Model- Model classes are used to implement the logic of data domains. These classes are used to retrieve, insert or update the data into the database associated with our application.

B. View- Views are used to prepare the interface of our application. By using that interface users interact with our application.

C. Controller- Controller classes are used to respond to the user’s requests. Controller classes perform the users requested actions. These classes work with model classes and select the appropriate view that should be displayed to the user according to user requests.

1. What are some benefits of using MVC?

Advantages of MVC architecture:

* Development of the application becomes fast.
* Easy for multiple developers to collaborate and work together.
* Easier to Update the application.
* Easier to Debug as we have multiple levels properly written in the application.

1. Draw a diagram to visually represent an MVC pattern

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1. What is version control?

Version control systems are a category of software tools that help a software team manage changes to source code over time. Version control software keeps track of every modification to the code in a special kind of database. If a mistake is made, developers can turn back the clock and compare earlier versions of the code to help fix the mistake while minimizing disruption to all team members.

1. What is the most popular version control system?

The most popular version control system is : GIT/GITHUB

1. Why do we use version control?

Version control systems allow you to compare files, identify differences, and merge the changes if needed prior to committing any code. Versioning is also a great way to keep track of application builds by being able to identify which version is currently in development, QA, and production.