1. What are the differences between Web Services and Cloud Services?

Web Services: are the tools that allow users to interact with software over the Internet.

Cloud Services: cloud computing means storing and accessing data and programs over the Internet instead of your computer's hard drive. The cloud is just a metaphor for the Internet

1. Please briefly describe the main differences between Big Data and Data concept. What are we going to use in ASP.NET course.

The term Big Data, especially when used by vendors, may refer to the technology (which includes tools and processes) that an organization requires to handle the large amounts of data and storage facilities.

3. Which one is safer to use in connecting to SQL Server?

* Windows authentication
* SQL authentication
* Both Windows and SQL authentication

According to Microsoft, the SQL authentication is not safer than windows authentication, because in the SQL authentication you have for various database systems only a username and a password. When a user connects through a Windows user account, SQL Server validates the account name and password using the Windows principal token in the operating system. This means that the user identity is confirmed by Windows.

Microsoft’s best practice recommendation is to use Windows authentication.

Please explain which one uses asymmetric key and which one uses symmetric key?

Symmetric encryption is a type of encryption where the same key is used to encrypt and decrypt the message. This differs from asymmetric (or public-key) encryption, which uses one key to encrypt a message and another to decrypt the message.

Asymmetric encryption, in which there are two related keys--a key pair. A public key is made freely available to anyone who might want to send you a message. A second, private key is kept secret, so that only you know it.

1. Search about Storyboards (google, YouTube, etc.) and briefly explain about it.

Storyboarding gives you a visual look at the layout of the site, and what type of organization you need to use. This will also give you a first look at how you want to build your navigational system.

Online tool: [**Flairbuilder.com**](http://flairbuilder.com/)

1. Search about Paper Prototype (google, YouTube, etc.) and briefly explain about it.

Paper prototyping is a widely used method in the user-centered design process, a process that helps developers to create software that meets the user's expectations and needs—in this case, especially for designing and testing user interfaces.

Online tools: [Bootstrap](http://getbootstrap.com/) or [Foundation](http://foundation.zurb.com/)

**Webpage Designing (Estimated time to build up your website is 3 hours)**

Define a storyboard and paper prototype before touching any implementation.

Choose your application for the implementation. Why you have chosen that application?

WEBSITE: [www.ciconi.com.br](http://www.ciconi.com.br)

Sources:

<https://msdn.microsoft.com/en-us/library/ms144284.aspx>

<http://www.quepublishing.com/articles/article.aspx?p=788098&seqNum=8>

<http://blog.teamtreehouse.com/rapidly-prototype-websites>

<https://en.wikipedia.org/wiki/Paper_prototyping>

<https://support.microsoft.com/en-ca/help/246071/description-of-symmetric-and-asymmetric-encryption>

<https://www.quora.com/What-is-the-difference-between-a-cloud-and-web-based-application>

<https://www.ibm.com/big-data/us/en/>

<http://www.webopedia.com/TERM/B/big_data.html>

<http://searchcloudcomputing.techtarget.com/definition/big-data-Big-Data>

<http://www.techrepublic.com/blog/big-data-analytics/big-data-basic-concepts-and-benefits-explained/>

<https://www.lynda.com/Hadoop-tutorials/Techniques-Concepts-Big-Data/158656-2.html>

<http://www.webopedia.com/TERM/S/symmetric_encryption.html>