Module 4

ASP.NET

Validation

- Validation is an important aspect in ASP.NET MVC applications.

- It is used to check whether the user input is valid. ASP.NET MVC provides a set of validation that is easy-to-use and at the same time, it is also a powerful way to check for errors and, if necessary, display messages to the user.

Attribute	Usage
Required	Specifies that a property value is required.
StringLength	Specifies the minimum and maximum length of characters that are allowed in a string type property.
Range	Specifies the numeric range constraints for the value of a property.
RegularExpression	Specifies that a property value must match the specified regular expression.
CreditCard	Specifies that a property value is a credit card number.
CustomValidation	Specifies a custom validation method that is used to validate a property.
EmailAddress	Validates an email address.
FileExtension	Validates file name extensions.
MaxLength	Specifies the maximum length of array or string data allowed in a property.
MinLength	Specifies the minimum length of array or string data allowed in a property.
Phone	Specifies that a property value is a well-formed phone number.

Authentication

- Authentication is nothing but a process that ensures and confirms a user's identity.
- Types of Authentication:
- The different types of Authentication supported by ASP.NET MVC are as follows:
  - Forms Authentication: In this type of authentication the user needs to provide his credentials through a form.
  - Windows Authentication: Windows Authentication is used in conjunction with IIS authentication. The Authentication is performed by IIS in one of three ways such as basic, digest, or Integrated Windows Authentication. When IIS authentication is completed, then ASP.NET uses the authenticated identity to authorize access

- Passport Authentication: It is a centralized authentication service (paid service) provided by Microsoft which offers a single logon and core profile services for member sites.
- None: No Authentication provided. This is the default Authentication mode

Authorization

- Authorization is a security mechanism that is used to determine whether the user has access to a particular resource or not.