

# Sample Questions with Answers

## Backend Development - ASP.NET

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Backend Development

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### Question 1:

What is ASP.NET AJAX?

#### **[ANSWER] Answer & Explanation:**

ASP.NET AJAX, mostly called AJAX, is a set of extensions of ASP.NET. It is developed by Microsoft to implement AJAX functionalities in Web applications. ASP.NET AJAX provides a set of components that enable the developers to develop applications that can update only a specified portion of data without refreshing the entire page. The ASP.NET AJAX works with the AJAX Library that uses object-oriented programming (OOP) to develop rich Web applications that communicate with the server using asynchronous postback.

### Question 2:

What are the different controls of ASP.NET AJAX?

#### **[ANSWER] Answer & Explanation:**

ASP.NET AJAX includes the following controls: ScriptManager ScriptManagerProxy UpdatePanel UpdateProgress Timer

### Question 3:

What are the new features of ASP.NET AJAX 4.0?

#### [ANSWER] Answer & Explanation:

ASP.NET 4.0 AJAX includes several new features that provide more functionality to a user. These features are as follows: Support for live data binding. Support for client-side template rendering. Support for declarative instantiation of client components. Support for using the observer pattern on JavaScript objects and arrays. Support for invoking ADO.NET data services and data contexts. Support for the DataView control.

### Question 4:

How many validation controls are available in ASP.NET AJAX 4.0?

#### [ANSWER] Answer & Explanation:

The following validation controls are available in ASP.NET AJAX 4.0: FilteredTextBoxExtender - Enables you to apply filtering to a text box. MaskedEditExtender and MaskedEditValidator - Restricts a user to enter only a certain pattern of characters in the TextBox by applying a mask to the input. ValidatorCalloutExtender - Attaches to the ASP.NET validators so that the error messages are not displayed as a simple text but as a balloon-style ToolTip. NoBot - Prevents the spam/bot from filling the input forms automatically and uses the Completely Automated Public Turing test to tell Computers and Humans Apart (CAPTCHA), which is a type of challenge-response test to ensure that the response is not generated by the computer. PasswordStrengthExtender - Measures the strength of the password text entered within the text box by validating with the different strength specified parameters

### Question 5:

What are the components of the ASP.NET AJAX architecture?

#### [ANSWER] Answer & Explanation:

You can divide the ASP.NET AJAX architecture into two components - AJAX client architecture and AJAX server architecture.

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