

Active Server Pages (ASP), later known as **Classic ASP** or ASP Classic, is Microsoft's first server-side script engine for dynamically generated web pages for Microsoft Internet Information Server (IIS) version 3.0 and later.

It was first released on December 1996, before being superseded in January 2002 by ASP.NET.

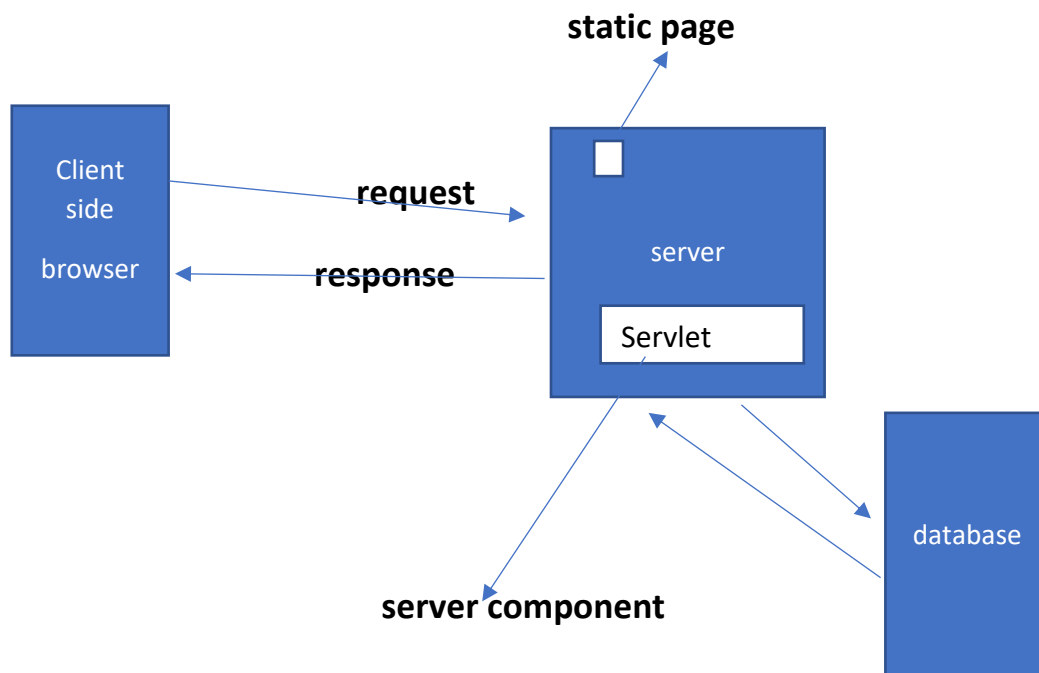
ASP stand for Active server pages and .NET stand for network enable technology

ASP.NET is a server side technology for web development.

This is a framework is used for developing a powerful dynamic web sites, web application and web services.

ASP combines the ease of HTML with familiar programming tools such as Microsoft Visual Basic Scripting Edition (VBScript) and Microsoft JScript, along with reusable Component Object Model (COM) components.

These components can be used to build powerful, dynamic Web sites. ASP executes on the Web server, and the output returned to the Web browser is a plain HTML file.



Java Server Pages

JSP technology is used to create web application just like Servlet technology. It can be thought of as an extension to Servlet because it provides more functionality than servlet such as expression language, JSTL, etc.

A JSP page consists of HTML tags and JSP tags. The JSP pages are easier to maintain than Servlet because we can separate designing and development. It provides some additional features such as Expression Language, Custom Tags, etc.

Creating a simple JSP Page

To create the first JSP page, write some HTML code as given below, and save it by .jsp extension. We have saved this file as index.jsp. Put it in a folder and paste the folder in the web-apps directory in apache tomcat to run the JSP page.

index.jsp

Let's see the simple example of JSP where we are using the scriptlet tag to put Java code in the JSP page. We will learn scriptlet tag later.

```
<html>
<body>
<% out.print(2*5); %>
</body>
</html>
```

It will print 10 on the browser.

How to run a simple JSP Page?

Follow the following steps to execute this JSP page:

- Start the server
- Put the JSP file in a folder and deploy on the server

- Visit the browser by the URL `http://localhost:portno/contextRoot/jspfile`, for example, `http://localhost:8888/myapplication/index.jsp`

JSP Declaration

- A declaration tag is a piece of Java code for declaring variables, methods and classes.

Syntax

```
<%! Dec var %>
```

Example:

```
<html>
```

```
<body>
```

```
<%! int count =10; %>
```

```
<% out.println("The Number is " +count); %>
```

```
</body>
```

```
</html>
```

JSP Scriptlet

Scriptlet tag allows to write Java code into JSP file.

Syntax

```
<% java code %>
```

Example:

```
<html>
```

```
<body>
```

```
<% int num1=10;
```

```
int num2=40;
```

```
int num3 = num1+num2;  
out.println("Scriptlet Number is " +num3);  
%>  
</body>  
</html>
```

JSP Expression

Expression tag evaluates the expression placed in it.

It accesses the data stored in stored application.

It allows create expressions like arithmetic and logical.

It produces scriptless JSP page.

Syntax:

```
<%= expression %>  
<html>  
<body>  
<% out.println("The expression number is "); %>  
<% int num1=10; int num2=10; int num3 = 20; %>  
<%= num1*num2+num3 %>  
</body>  
</html>
```

JSP Comments

Comments are the one when JSP container wants to ignore certain texts and statements.

When we want to hide certain content, then we can add that to the comments section.

Syntax:

```
<% -- JSP Comments %>
```