3. Write a note on Navigation controls in ASP. NET & what is SiteMap.

* **Navigation Controls**

- Navigation control in ASP. NET manages the data passing between ASPX pages. Web applications are having multiple pages interconnected with each other. So proper navigation system must be there which can help the end user to successfully work through an application.

- There are standard methods are available in ASP. NET that offers well defined navigation system for that web application. Only the method which is present for building navigation within web application is to fill the pages with hyperlinks

- When the site grows & new pages are added & at that time it is very difficult for the developer to manage all links in the application. ASP. NET 2.0 & above eliminate problems of links with a build in sight navigation features. It provides a consistent way for the user to navigate the website. It enables defining all the links at central location file as xml file & display those links in list or navigation menus in each required page using navigation controls.

* Site Map

- Site Maps are XML files which are mainly used to describe logical structure of web application. It defines the layout of all pages in web application & how they relate to each other.

- Whenever a user wants to add or remove pages to the site map there by managing navigation of website efficiently. Site map files are defined with '.sitemap' extension

- <sitemap> element is the root node of the sitemap file

- It has three attributes
  • Title : It provides textual description of Link

  • URL : It provides the Location of valid physical file

  • Description : It is used for tooltip of the link.

* Properties of SiteMap

• PathSeperator - This property is to get or set the out seperator text.

• NodeStyle - It is used to set the style of all nodes that will be displayed

- RootNode Style - It is used to set the style on the absolute root node.

- PathDirection - This property is used to set the direction of the links that are generated in the output.

- CurrentNodeStyle - This property is used set the style on the node that represents the current page.

- ShowToolTips - This is used to set the tooltip for control. Default value is true.

- PathSeperatorStyle - This property is used to set the style of path seperator.