

# Data Transfer over HTTP URL Encoding (Query strings) Form Data Cookies Redirection



















## **Cookie Persistence**



- By default, a cookie lasts for one session (until browser is closed)
- A cookie can persist beyond this by setting an expiration time
  - Set cookie to expire in one year

cookie.Expires = DateTime.Now.AddYears(1); Response.Cookies.Add(cookie);



Response.Cookies.Add(cookie);

# Managing State



- Recall that the HTTP protocol doesn't support maintaining state information (variables)
  - Each request/response is independent and nothing is remembered between subsequent pages
- Cookies and query strings are ways to pass data between request & response, thus maintaining state information



- View state concepts
   View state is an ASP.NET feature for retaining the
- values of page and control properties from one execution of a page to another
- It is a collection of key/value pairs that represents the page and control properties
- You can also add your own data to the view state
- Before ASP.NET sends a page back to the client, it determines what changes the program has made to the page, encodes them in a string, and assigns the string to the value of a hidden input field named \_VIEWSTATE



- The session ID lets the server find the right session state object.
- The session state object can be used to store and retrieve items that can be used by any of the pages in the application.



# Typical uses for session state

- To keep information about the user, such as the user's name or whether the user has registered
- To save objects the user is working with, such as a shopping cart or a customer record
- To keep track of pending operations, such as what steps the user has completed while placing an order



Session["EMail"] = email; Retrieve the value of a session state item string email = Session["EMail"].ToString(); Removes an item from session state Session.Remove("EMail"); Retrieves a session state item from a non-page class string email = HttpContext.Current.Session["EMail"].ToString();





