

## **Session:**

A session is used to save information on the server momentarily so that it may be utilized across various pages of the website. It is the overall amount of time spent on an activity. The user session begins when the user logs in to a specific network application and ends when the user logs out of the program or shuts down the machine.

Session values are far more secure since they are saved in binary or encrypted form and can only be decoded at the server. When the user shuts down the machine or logs out of the program, the session values are automatically deleted. We must save the values in the database to keep them forever.

The important methods of the Session class are:

`public Object getAttribute(String name)` - This method returns the object bound with the specified name in this session, or null if no object is bound under the name.

`public Enumeration getAttributeNames()` - This method returns an Enumeration of String objects containing the names of all the objects bound to this session.

`public long getCreationTime()` - This method returns the time when this session was created, measured in milliseconds since midnight January 1, 1970 GMT.

`public String getId()` - This method returns a string containing the unique identifier assigned to this session.

`public long getLastAccessedTime()` - This method returns the last time the client sent a request associated with the this session, as the number of milliseconds since midnight January 1, 1970 GMT.

`public int getMaxInactiveInterval()` - This method returns the maximum time interval, in seconds, that the servlet container will keep this session open between client accesses.

`public void invalidate()` - This method invalidates this session and unbinds any objects bound to it.

`public boolean isNew()` - This method returns true if the client does not yet know about the session or if the client chooses not to join the session.

`public void removeAttribute(String name)` - This method removes the object bound with the specified name from this session.

`public void setAttribute(String name, Object value)` - This method binds an object to this session, using the name specified.

`public void setMaxInactiveInterval(int interval)` - This method specifies the time, in seconds, between client requests before the servlet container will invalidate this session.