

```
/// </summary>
/// <param name="userName">User's login name</param>
/// <param name="password">User's login password</param>
/// <returns>1 if valid, 0 if invalid</returns>
public String ValidateUser(String userName, String password)
{
    userName = CleanSQL(userName);
    password = CleanSQL(password);

    // The stored procedure we're executing
    System.Data.SqlClient.SqlCommand sqlCmd = new System.Data.SqlClient.SqlCommand(
"spValidateUser", sqlConn);
    sqlCmd.CommandType = System.Data.CommandType.StoredProcedure;

    // Add our parameters to the stored procedure
    sqlCmd.Parameters.Add("@userName", SqlDbType.VarChar).Value = userName;
    sqlCmd.Parameters.Add("@password", SqlDbType.VarChar).Value = password;

    // The return value for the stored procedure
    System.Data.SqlClient.SqlParameter pRetVal = sqlCmd.Parameters.Add("@Ret",
SqlDbType.Int);
    pRetVal.Direction = ParameterDirection.ReturnValue;

    // Execute the stored procedure
    sqlCmd.ExecuteScalar();

    return sqlCmd.Parameters["@Ret"].Value.ToString();
}

/// <summary>
/// Creates a new session ID for the user
/// </summary>
/// <param name="userName">The user for which the session is being opened</param>
/// <returns>The new session ID</returns>
public long NewSessionID(String userName)
{
    long sessionID;
    userName = CleanSQL(userName);

    ClearExpiredSessions(); // clear all expired sessions

    // The stored procedure we're executing
    System.Data.SqlClient.SqlCommand sqlCmd = new System.Data.SqlClient.SqlCommand(
"spNewSessionID", sqlConn);
    sqlCmd.CommandType = System.Data.CommandType.StoredProcedure;

    // Add our parameters to the stored procedure
    sqlCmd.Parameters.Add("@userName", SqlDbType.VarChar).Value = userName;

    // The return value for the stored procedure
    System.Data.SqlClient.SqlParameter pRetVal = sqlCmd.Parameters.Add("@Ret",
SqlDbType.Int);
    pRetVal.Direction = ParameterDirection.ReturnValue;

    // Execute the stored procedure
    sqlCmd.ExecuteScalar();

    // Convert to long
    long.TryParse(sqlCmd.Parameters["@Ret"].Value.ToString(), out sessionID);

    return sessionID;
}

/// <summary>
/// Checks whether the session ID is valid
/// </summary>
/// <param name="sessionID">The user's session ID</param>
/// <returns>TRUE if valid, FALSE if invalid</returns>
public bool ValidateSessionID(long sessionID)
```