

# UserConcurrency

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How can I count the number of online users on my site? I have implemented my application as follows. Whenever a user logs in, I increment the count field in my database by 1 in Session\_Begin and on Session\_End I decrement it by 1. Though the code works fine in normal circumstances, I noticed a few anomalies:

1. If the user refreshes his browser, the Session\_Begin is called again and the counter is incremented again. To overcome this, I used cookies. The first time the user logs in, I create the cookie. When the user refreshes his browser, it checks if the cookie exists, if it doesn't it treats it as a new request and updates the counter accordingly.
2. The problem arises on log out. Whenever the user refreshes his browser, Session\_End is called that many times, and my counter is decremented more than once. How can I get Session\_End to run only once for each instance of the browser?
3. I'm using Forms Authentication and on Session\_End I want to call FormsAuthentication.SignOut since the user can still access the pages after the session ends, causing a new session to be started. But this function does not work in Session\_End.