Abstract

As we know one factor authentication does not provide required security to a user while accessing the areas like banking, insurance, medical records etc. Users have to simply type a user name and password on the website. So there is a need to increase the level of security for these users. This paper introduces an approach to increase the security level by using multifactor authentication scheme. This approach requires the user to login with a username and password. As the user enters his password, he will get the OTP generated by the system on his cell phone. We are integrating this approach with image based authentication and question based authentication. To develop this system we are using SHA algorithm and Lamport’s algorithm. By using these algorithms we can develop more secured multifactor authentication. We are using visual studio as the front end and My SQL as the back end. The results show a more secured system.
Implementation of Security System using Multifactor Authentication


Index Terms

Computer Science

Security

Keywords

Multifactor Authentication; Security; OTP (One Time Password); Graphical Password; Knowledge based Authentication