Authentication is necessary in multi-user systems. User name and password are used to authenticate a user. Textual passwords are most common type used for authentication. Authentication schemes that use textual passwords are vulnerable to attacks password stealing, dictionary attack and shoulder surfing. Graphical passwords provide an alternative to graphical passwords but, simple schemes are vulnerable to shoulder surfing and hidden cameras. Native
language passwords can be used for authentication and the user can remember it better than any other language. A shape based textual authentication is discussed in this paper and simplification of the native language passwords is proposed. Session passwords are generated for each login, making the authentication scheme more resistant to shoulder surfing and hidden camera attacks.

Reference

Simplified Native Language Passwords for Intrusion Prevention

- Sreelatha Malempati and Shashi Mogalla, “ Intrusion Prevention by Native Language Password Authentication Scheme ” in Fourth International Conference on network security & Applications, CNSA 2011, India (Accepted)

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