

LABVIEW Project 1

Voice Recognition

You work for a security firm and have been tasked with designing a voice-based security system that can recognize a person's voice and provide access if it is correct. As a result, the purpose of this research is to build a security system based on people's voices. In the Lab View software environment, you must develop a program to use a person's voice (both previously recorded and presently being captured) as a password. The user says his name with his voice in this manner, and if the user's speech pattern is already recorded in the system and has access authorization, the user says his name with his voice in this manner.

1. You must use your voice as a password.
2. To start saying the voice password, you must use a button and continue recording until the mouse presses the button, after which the processing process begins.
3. Display the recorded sound in your program's main window.
4. If the voice password was incorrect, show the user a message (message box), and the user can enter their voice again by pressing the cancel key.
5. Your application must include a section for adding a new voice password that is only accessible with the previous voice password and a 4-digit numeric PIN code.
6. You can use any theory you want, but you must know it well and be able to explain it.
7. For this project, you are required to prepare a detailed report of your work along with the code.
8. For this project you must design a good user interface.

Good luck