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METHOD TO SECURE SENSITIVE DATA USING VOICE AND FACE RECOGNITION

HP INC

Method to secure sensitive data using voice and face recognition

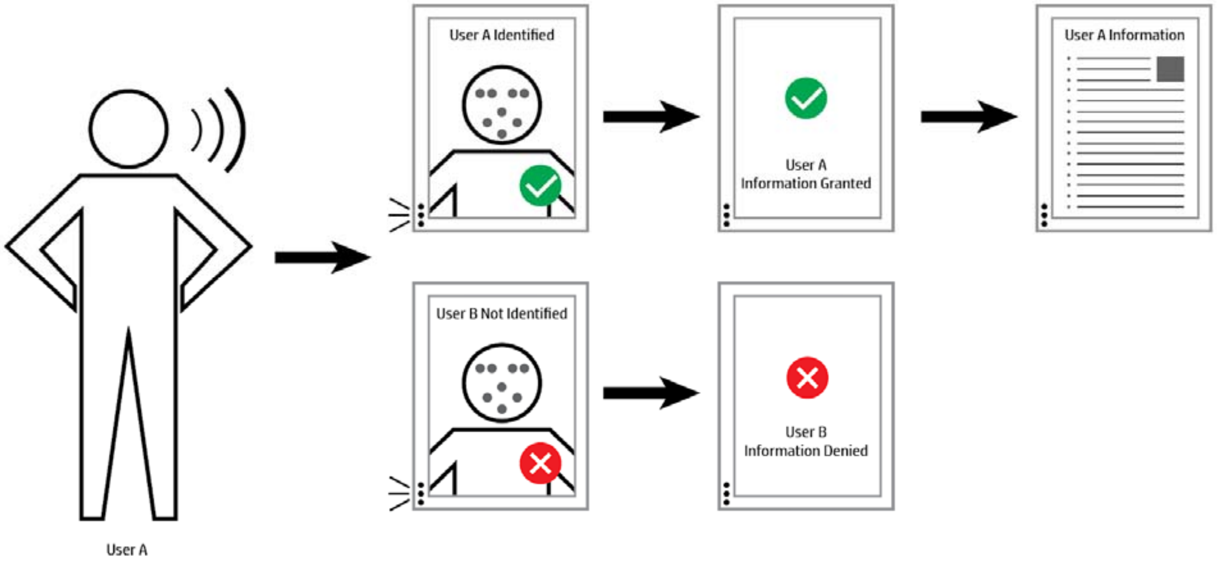
This idea describes a method to secure sensitive data using voice and face recognition technologies, specifically on ambient systems in home and business environments.

As more and more ambient systems get adopted, such as Smart Speakers, Smart Mirrors and Telepresence Robots, more sensitive information is going to be accessed via those shared devices. These devices are often shared amongst multiple individuals in a household. In a business environment, it may be shared by 10s of people. So, it is important to implement a system to secure the information on those shared devices. User experience also needs to be taken into account, so the traditional method of asking for a password may not ideal.

For the problem stated above, this publication describes using voice and face recognition technologies to first identify the user. It may also be important to understand the presence and identify of the other individuals in the shared environment. Next, the system needs to validate the access permissions for the given data amongst the present individuals. For example, the system may share an employee's pay information while that employee and that employee's manager are present in the environment. However, the system may not allow sharing of that information if the employee, that employee's manager and a subordinate are present in the room. An authorized individual, in this situation, the employee or the manager, may override the authorization and allow the system to share the information.

The system may also take proactive steps to redact some information based on people it identifies in the environment.

The system is not limited to voice and face recognition, it may use other identification mechanisms.



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