**INTRODUCTION**

In our daily life, we use Facebook, Gmail, twitter and all other kinds of services. How do we identify ourselves in these sites? The obvious answer would be by entering the username and password. But this method becomes very irritating for some people as they become tired of entering their credentials many times. This is especially true for people who a lot of social or business passwords and find it difficult to manage them. Some may argue that we can use application that they could store these passwords in a password management application. But that too causes a bit of a hustle as we have to find an application that fits our need.

We have come up with a creative solution to all these problems. We will use a Raspberry Pi, a webcam and some tools to effectively overcome these challenges and produce a more user-friendly system that requires minimum input from the user, but meets all their needs and uses.

**Existing System**

In the current existing systems, if a user wants to access an application he has to manually open the proper application. He has to navigate through all his installed apps and finally open the needed application. If the service is in a web page also he has to type in the site address. After opening he has to authenticate his identity to access its services. The authentication is majorly based on typical password protection. We have to always manually specify the username and password to access any social networking sites or any email clients. These tend to very tiresome and very frustrating for the user as they have to enter their credentials over and over again.

**Proposed System**

In our system, we have tried to make the authentication simpler and more user friendly. All the user has to do is to show his face in a camera. Our face recognition software will match his previously stored credentials. Then he can say what he wants to do. For example, if he say’s “open Facebook” a web page to Facebook will be opened and auto logs him in using his previously entered credentials. He can browse freely using the system’s inbuilt touchpad. He can also use the voice search engine to ask for general topics such as weather, searching a restaurant etc. Our system is also very cost effective as it is made from cheap obejcts.

**Hardware Requirements**

* Raspberry Pi 3 Model B
* Internet Connectivity
* TFT Touchscreen
* Webcam with audio input
* Optional USB mouse and keyboard
* Power Adapter
* Speaker System
* SD Card
* Micro USB Cable

**Software Requirements**

* Raspbian OS
* Jasper Open Source Voice Recognizer
* Open CV for face recognition
* Cloud Server like google drive

**CONCLUSION**

An attempt has been made to develop a cost-efficient and user friendly system to improve the current tedious situation. Our aim was to reduce the work done by the user for doing simple tasks such as logging in to a website and using voice commands to do a particular task.

The disadvantage of this project is that only one user can access the system at a time. The users must scan their face and input their confidential data into a cloud storage initially. There are also security concerns regarding the retrieval of those data. Lots of improvement can be done in these areas.

.