**PASSWORD MANAGER**

To begin with, **Password Manager** is an application that allows you to generate and store all your passwords in a safe location. So, instead of memorizing the login information for each website or application, one can remember only the master password. A well-designed password manager gives you the ideal complexity and length for the password. Also, some websites have expired passwords. We need to look for these important features in a good password manager such as a Password generator, auto-fill forms, two-factor authentication, and password syncing across multiple devices.   
There are three types of password managers. Such as:

* Locally installed or offline password managers
* Web-based or online password manager services
* Stateless or token-based password managers **(Masiliauskas, 2022)**

while each of them has its own pros and cons.

The person I have interacted with in the past, who needs a Password Manager application, is one of my friends Sachin. He generally uses the same password across all the websites and for all the apps as he could not remember different passwords. He uses weak and easy-to-remember passwords. Weak passwords are one of the leading causes of compromised online accounts. This is a dangerous practice but a very common one. I feel this is not a very safe practice to follow. Some day or other he might get hacked and the sensitive information would be at risk. So I would like people like him to have a password manager, which is accessible and safe. This way all the information will be safe and secure as he is a working professional too. Sachin often had to work on unexpected occasions on any device if it is urgent.

Also, he uses multiple gadgets and opens all his accounts on those devices. I feel a person like him would need an application that will be accessible on any device and stores the passwords in the cloud.

Many password managers provide all these specifications. Out of all, I feel **LastPass (Web-based which uses the cloud)** password manager would suit the requirements he may need. Cloud-based services store your passwords in remote servers. **(Ot, 2021)** Although no password manager can guarantee complete protection, using additional security methods such as multi-factor authentication can provide a layer of assurance.

Multi-factor authentication is something that requires two or more pieces of information, called factors, from across two or more categories of authentication factors like Something you know, something you have, something you are, somewhere you are, or something you do. **(west, 2021, #216)** Though it is a paid service, this ought to be the best as this can be used on any device without the need to install it on each device he uses. As this is a Web-based Password manager, which uses the cloud to store all the passwords, which is usually the Provider’s server, which means one can access their passwords anytime from anywhere on many devices. The passwords will be saved to the vault online, which you can access from any device. This application keeps track of all your user IDs, passwords and many other settings like these will be stored in the cloud. **(*Home*, n.d.)** It is the only password i.e., the master password that you have to remember. Other resources can also store password information, such as application passwords or server credentials. **(west, 2021, #214)**

With that being said, any password manager will come with a caution:

* NEVER share your master password with anyone or anywhere, as that is the key to everything.
* Always sign out of the password manager account when you are not using it.
* Always lock or sign out of the OS before walking away from your computer. **(west, 2021, #228)**

To wrap this up, not just him but every working individual who manages multiple accounts and websites often needs a password manager which meets their specifications just like how an application that I suggested met my friend’s.

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***By:***

***Manasa Maddineni***