**Introduction:**

We are living in 21st century, the world of technologies , innovations etc.

In past we have some currencies in form of exchanging goods(e.g. someone grow wheat and other one grow rice , so if they need other goods then they simply exchange goods with each other). Then as we go ahead in time we have currency in form of gold , gold coins , then as move more further then we have paper currency which are also using now-a-days. We have also plastic currency, but the world is changing very rapidly now at this time we also get a new concept of currency which is DIGITAL CURRENCY also known as CRYPTOCURRENCY.

So, to secure/ save/store this currency there is also a digital wallet. There are different types of wallets available with their own pros. & cons. Like paper wallets, hardware, software etc. but according to our project requirements we have to create a flexible , convenient wallet which should be accessible at any time.

In digital wallets the security is the main concern because in wallets we have public keys and private keys. The public keys are visible to everyone just like the bank account number. If someone wants to send money to your account he must have your account number. And if you want to withdrawal your money then you must know your PIN or signature(in case of checks). So Private Keys work exactly like PINs. If any one lost its Private key then it all coins are gone. And there is no way to claim that because these are not property of anyone these are internet coins.

**Problem Statement:**

We have physical currency which is sometimes difficult to carry (if it is in huge amount) and we have risks of robbery etc. Now currency is changing to plastic currency the e-currency(PayPal etc.) and now in form of cryptocurrency.

So these are easy to carry and transferable but these currency are now exposed to thousands of hackers who can stole this money.

So, Our main goal is to create a wallet which is flexible and can be accessible at any place and time so we must have to make our wallet online. But in online wallets the security risk is maximum. And then we want a wallet which is flexible so that it can store multiple types of digital currencies like Ripple, Ethereum, Bitcoin etc.

**What should be the solution:**

As we know the internet money is easily carriable and transferable but it increase security risks. To make it secure we make our wallet decentralized . Which means it can increase security without being on single server. If hacker access one our system then also unable to get the money.

Then we can use multisig, multisig means that user require more than one key to authorize to make transaction or we can also used two way authentication or may be multi device authentication to secure our wallet from scammers. And our wallet would be non-custodial means that private would store in browsers not to wallet servers.

**Types Wallets:**

There are basic five types of wallet:

1. Desktop Wallet

These are actually a software which is installed on your computer.

These wallets provide good level of security. When your machine is offline no one can access unless any one can hack you computer.

1. Hardware Wallet

These wallets are any hardware device such as USB, these wallets provides high level of security. Because when don’t need money user disconnects its device and now no-body can access through network unless the hardware device get stolen.

1. Web/Online Wallet

These wallets are most convenient, and flexible but these are least secure. Because private keys are stored in servers so any hacker can access it.

1. Paper Wallet

The most secure one , the private keys are written down to paper and your account cant be hacked unless anyone can get your paper.

1. Mobile Wallet

These wallets are like to desktop wallets only difference is that here we have mobile application not the desktop software.

**What We Use:**

We use online wallets but with some modification. Because online wallets are ready to exposed to hacker so any hacker can access to private key. To handle these condition we do some modification . These are:

Our wallet would be decentralized , multisig, or may have some authentication while transferring funds or any work you want to do. And our wallet is also non-custodial

**Conclusion:**

As we discussed we are living in 21st century. In this century we are using different types of currencies. And one of the currency is Crypto Currency . So to save/store this currency we use crypto wallets.

Our wallet is highly accessible for user at any time and at any place. We use different techniques to make it securable. As we disused earlier we make our wallet not to rely on single point i.e. decentralized . Our wallet not store private keys to its servers but actually it stores it to browsers to make it more secure.

We also use mechanism of two way authentication to make transactions more securable.