**Wavale Project**

Wallet service should provide four major cryptocurrencies: Bitcoin, Ethereum, Ripple, LTC, Monero

*Modules* we need:  
**1- High Level View Registration, Function&Security**

- A user account system that allows users to *register, maintain a balance, deposit and withdraw BTC and other currencies*.

-Integration with a payment processor to support currency deposits and withdrawals.

-Users can fund account with via Bank transfer, Cash deposit, debit/credit card. Users can also withdraw funds to bank account

-User Should be able to check equivalence in USD or Euro Or PLN the total amount of coins he has depending on the currency he chooses (***Check bitbay.net***)  
- Know your customer: User account should be limited pending KYC full verification for Email, phone, ID and Address.  
- A matching engine that looks at the current buy and sell orders and matches orders together and executes the trades when user click buy in the app. Operation should be transparent to the user but in the backend all those operations should happened.

- Logging page of mobile app like coppay with all securities process user go through when opening app for the first time

-Multi language (FR, EN, PL) & Multi currency (EUR,USD,PLN) (***check bitit.io for reference***)

Support:  
Ticket system for support (email tickets)

***2- Tech Functions Recap***  
-Website interface(should look like luno.com/ breadapp.com/bitit.io)  
- Android +ios app version  
-User account management  
-Admin panel  
-Coin instant buyingvia Exchange: buy and sell digital cryptocurrencies (Ether/bitcoin) through an exchanged API

-Deposit and withdraw Fiat functions(via sepa transfer or Credit card)  
-Deposits and Withdrawals in Bitcoin,Ethereum,Ripple,LTC, monero (send to another wallet)  
-Multi-sig & MFA authentication

- Coding should be done in HTML/PHP

***3 – Functionalities***

* Registration system: Authorize through sign-in feature
* User Profile: As in any other applications, the profile contains all the necessary personal information that can be used to manage bitcoin payments
* Built-in QR code scanner
* The ability to generate new addresses for all transactions
* Support for Bitcoin multi-currency exchange (and checking the bitcoin rate)
* Bitcoin Trade. This feature is useful for selling or buying bitcoins
* Real-time payment tracking
* Management of cryptocurrency
* Ability to display the "wallet" balance
* Mail and Phone number verification(KYC)
* Transaction history
* User Profile Management with rights management.
* Sending and receiving payments via Bitcoin URL and QR codes
* Push-notifications. This feature will help the user stay informed, for example, receive information about transactions
* Security, namely, setting a password and PIN to protect the application (PIN codes for access to coins)
* Backup function which offers safety and security. Keep in mind user keep his own private key on his mobile phone
* Reports with Profit calculation. (Users full details balances reports everything), Deposit reports, withdrawal reports and system balance and comparison for revenue assurance, fraud detection and AML detection reports.
* Database encryption for wallet address, user account info and all transactions
* Commission Setup for trading and transactions in admin panel.
* ***The App should have an easy to add option for more crypto currencies in future (scalable***
* ***One page of mobile app should look like luno app with consists of small widgets links to blog and new feeds***

***Ps: We will discuss the rest along. Keep in mind Copay.io is the target app we want to achieve but we don’t have to do exactly to the dot like they do it.we will some features and remove some of them.***

***Be open, Be innovative and Be inspired***