

Business Requirements Document

For

Copper-Backed Stable Coin Development



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About the Company

Dev Technosys Pvt. Ltd. is an India based IT company providing web and mobile app solutions to its clients. The company has been started with a simple motive, to deliver quality and promises, and it is a great pleasure stating that the company has won the trust of many by the services it offered, having some of the business tycoons as its clients; Dev Technosys today touches every segment of the burgeoning internet world. We are providing high quality solutions in the field of information technology including website designing and development, mobile application development, SEO, marketing services and business consultancy. It is one of the most Affordable mobile app and website development companies of the market that boasts so many services without compromising with the quality.



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Project Overview

This is an innovative stablecoin project aiming to provide a secure and reliable digital asset pegged to the price of copper, specifically 1 pound of copper. This stablecoin, built on ETH blockchain technology, combines the stability of a precious metal with the efficiency of a digital currency. This stablecoin is backed by algorithmic smart contract which will maintain the coin price equivalent to 1 pound copper. The copper does not need any reserves to store copper, or audit regularly for transparently displayed on the blockchain, this all process will be controlled and done by the smart contract for providing confidence in the stability and authenticity of the stablecoin.

To maintain stability, smart contracts will be implemented to automatically adjust the coin supply based on fluctuations in the price of copper. This ensures that the value of this stablecoin remains closely tied to the market price of copper, mitigating volatility and providing users with a reliable and predictable digital asset. This stablecoin aims to provide a reliable digital asset for a wide range of use cases, from everyday transactions to wealth preservation. This project seeks to contribute to the broader adoption of stablecoins as a secure and trustworthy financial instrument in the digital economy.

The system is also going to be available with a very robust web-based back-end panel to manage users, stablecoins. The admin will be fully authorized person to take any action in favor of the platform to maintain credibility and trust of the users.

Project Features and Flow

Pre-request from Client

- Hosting
- Content (Picture, Text, Videos)
- 3rd Party API/Tools (To be purchased/rented/provided by client)
 - ✓ Payment gateway API integration
 - ✓ SMS API Integration

User types

- Front-end users
- Super-Admin

Website Frontend

Since all the transactions and functions will happen on blockchain and using smart contracts.

➤ Components of the website

- Landing page
- Project info

- Project roadmap
- Tokonomies
- Teams' info (if the client wants)
- Contact info
- Login and KYC
- Choose wallet popup (Metamask, Wallet Connect, Trust Wallet)
- Whitepaper
- Transaction history of the stablecoins done worldwide will be shown here for the transparency of the users. (This will be done by the 3rd party API)

User KYC Process

The KYC process will be there only after completing the KYC process user will be able to buy the stablecoin.

- Enter Email ID
- Verify Email by OTP send on their Email.
- Enter Password
- First name
- Last name
- DOB
- Upload the requested documents
- Submit button.

Once user completed the KYC process an email will be sent to them and they can login and buy the Stable coin.

NOTE: We will use the 3rd here for the automatic KYC verification.

Website and wallet integration

Since users will be able to buy this stablecoin with the help of cryptocurrency, we will integrate 3 different wallet APIs for users better experienced. Users can connect any of the below-mentioned wallets and can buy the stable coin and get it into their connect wallet.

- MetaMask Wallet.
- Wallet Connect.
- Trust Wallet.

Smart Contract and website integration

- Configuring truffle or hardhat projects.
- Network configurations
- Deployed contract addresses and networks for different network
- Connect contracts with frontend and setup the constants in the state

Note: The smart contract development can be done in a completely separate environment using an online IDE such as Remix.

User Dashboard

After the user's KYC is done, they will redirect on the home screen of the application. From here user will be able to buy the stable coin. The home screen consists of the following things:

1. Total Stablecoin sold

2. Buy Now button to buy Stablecoins

3. Buy Currency

- ✓ For FIAT we will integrate the Stripe or PayPal payment gateway so user can buy with help of bank transfer, **E-wallet**, Credit card, and Debit card.
- ✓ For Crypto, there will be 3 buy currency
 - ETH
 - WBTC/BTC
 - USDT (ETH)

4. Users stablecoin Balance

- ✓ Your Coins
- ✓ Recent users
- ✓ Notifications

5. Transaction

- ✓ Transaction number
- ✓ Stablecoin
- ✓ Amount
- ✓ Date
- ✓ Buy Method (FIAT / Crypto)

6. Stablecoin sale graph

7. Transaction details

- ✓ Transaction date
- ✓ Status
- ✓ Transaction approved note
 - Transaction info
 - Transaction type
 - Payment gateway
 - Deposit from

- Deposit to
- Detail

8. Profile details

- ✓ Personal details
 - Full name
 - Mobile number
 - Nationality
 - Email address
 - Date of birth
- ✓ Settings
 - Save my activity logs
 - Account status
- ✓ Password
 - Old password
 - New password
 - Confirm new password

9. Currency Exchange Calculator

10. Buy XYZ

- ✓ Select Payment Method
 - Ethereum / Bitcoin / USDT (ETH)
 - Services
 - Enter ETH/ BTC / USDT
 - XYZ (auto-calculated)
 - Buy
 - Scan QR Code
 - Fiat currency
 - Enter Amount Transferred (FIAT Supported by Stripe and PayPal)

- XYZ stablecoins (auto-calculated)
- Buy
 - Transfer money to admin
 - Transfer Coins to Users connected wallet

Super-admin panel (Web-based)

The below all the details are mentioned which will be there on Admin Dashboard with the side menu:

- Login (email & password)
- User management (Search / Sort / Filter)
 - ✓ View all account details
 - ✓ Update / Edit / Delete any account
 - ✓ Verify an account
 - Accounts will be verified automatically by the 3rd party API.
 - Admin will be also able to check the details of the user's verification.
- Notification Management
 - ✓ Any changes applicable on the database.
 - ✓ Any user buys the Stablecoin.
 - ✓ And other important notifications.
- Transaction management (Search / Sort / Filter)
 - ✓ Amount received

- ✓ View summary of total payments & earnings
- Reports & Statistics (Sort / Filter data)
 - ✓ View all reports
 - ✓ Export to excel or CSV
- Content management
 - ✓ Templates management (Email)
 - ✓ Add / Update / Delete content
- Stablecoin Management
 - ~~✓ Admin Can also Mint and burn stablecoins manually~~

Website Backend

Let's say your stablecoin name is XYZ. So, the proposed solution is about the development of a backend that provides its users with a platform for buying/exchanging XYZ stablecoins with FIAT and the crypto (ETH, WBTC, USDT). Here, users will be able use Fiat currency to buy stablecoins.

Let's say we develop a new stablecoin name as XYZ. So, there will be the following option available for users to get XYZ stablecoin in their wallet:

- Cryptocurrency / Fiat currency: We understand that the following modules will be integrated into the backend:
- Users will be able to sign up through their email on which a verification link is sent to verify their account, then go through the KYC process.
- A username will be generated upon signing up using which user will be able to login into their account.

- Once logged in, user will have access to their dashboard through which they can manage their details, Stablecoin transactions, support, etc.
- There will be Fiat currencies listed on the website which can be exchanged to buy XYZ stablecoin.
- QR scan code system will be integrated to get the address of the Wallet for exchanging them with XYZ stablecoin.

Deliverables

- Website to sell Stablecoin
- ETH-based Stablecoin backed by Copper
- ETH-Based Smart Contract
- The price of the 1 Stablecoin will be equal to the price of 1 pound Copper.

Smart Contract

- Build a Standard ETH based stablecoin contract
- This smart contract will work on the algorithm where admin don't need any vault and smart contract will manage all the supply.
- We will develop an upgradable smart contract so once it is deployed on the Mainnet than also we can make the changes in it if we wanted by just paying a small gas fee by this, we don't need to develop a new contract from future aspects.
- There will be a small fee charges every time user transfer the Stable coins from one wallet to another similar like a gas fees charged by the network, that small fees will be transfer in admins wallet and can be used for further development.
- Testing the contracts using test-suites (using truffle or hardhat)

Note: Testing should include manual testing of the smart contract and automated unit-testing of the smart contract functions.

Time/Cost Estimates:

FSD & Design



Web Development



Testing & Quality Assurance



Business analysis & Project management



Total Days: 60 days

Total Cost: \$20,800

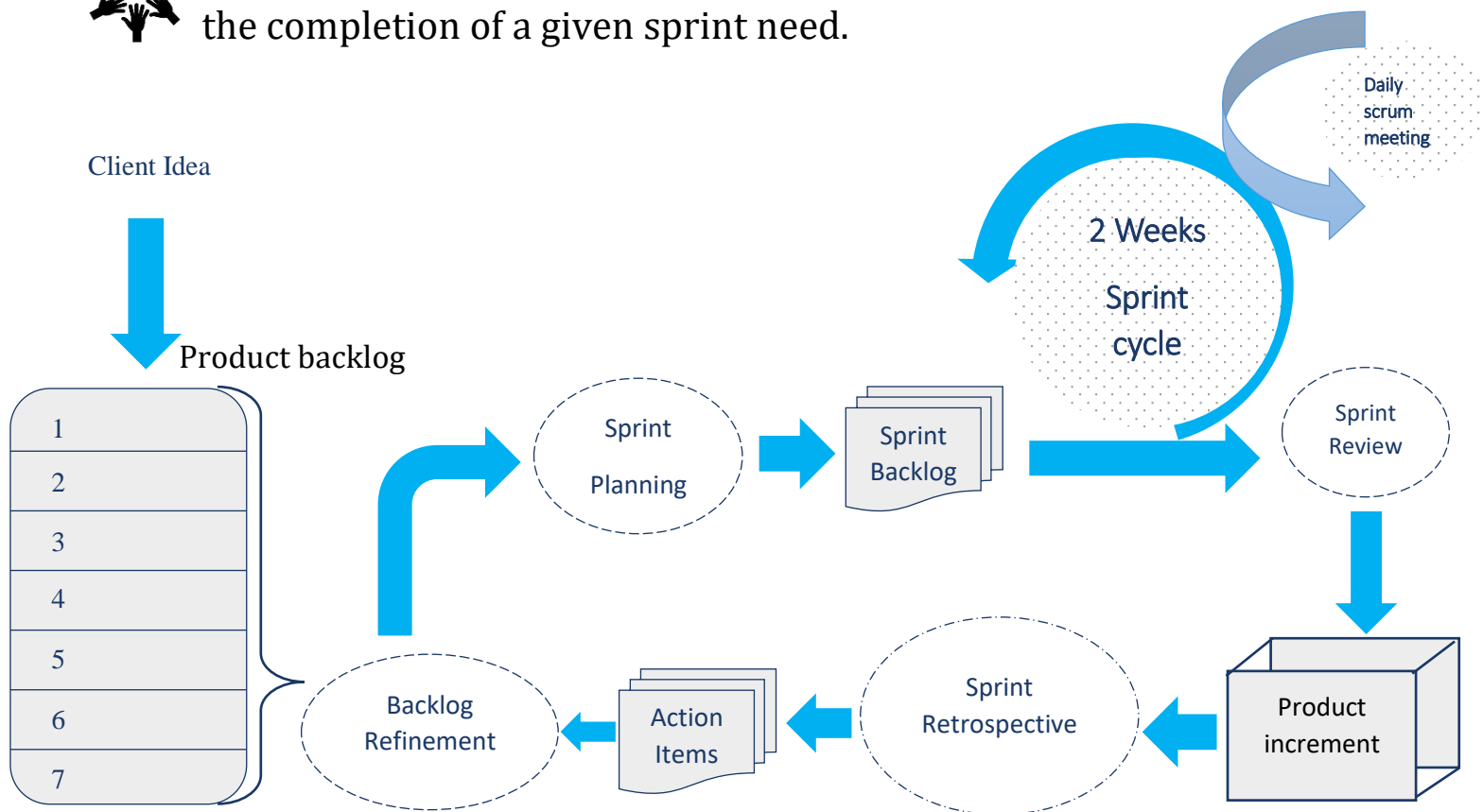
Project Methodology



Sprint Planning: We define what can be delivered in the sprint and how that work will be achieved. We define the “What”, “How” & “Who”



Daily Scrum: It is a short everyday meeting discussing tasks towards the completion of a given sprint need.



Sprint Review:

A meeting is to discuss what went well during the previous sprint cycle and things can be improved.



Product increment:

It is a sum of the deployable incremental deliverables, QA and testing are carried out these deliverables.

Project Milestone

The following is the payment schedule along with their milestone details which have to be followed during the life cycle of the project:

S. N.	Project Milestone	Payments
1	Team Allocation + Documentation + Logo Design + Home page Design + Testing	20%
2	Front End Development + Admin Panel + Wallet Integration + Basic Smart Contract + Testing	30%
3	Remix Smart Contract + Remix Contract Deployment + KYC Integration + Pre-sale Testing + Related Admin Panel Development	30%
4	Final Contract Testing + Contract Deployment on Main Network + Final Testing + Website Deployment	20%

Note: The payment needs to be made according to the above milestones only and after completion of respective milestones except the first one as it is going to be an advance fee for the project and the last milestone payment needs to be made just before we deploy Application.

Support & Services

After Development Support Services:

This is the support phase where we take care of bugs which may be raised after final release and reported by end users. After the development of the project, **1-month** free bug removal support will be provided.

Bug Fixes

The turnaround time for bug fixes will be 24 hours or next business day, once submitted by the client.

Response time

Monday - Friday, 10.00 – 19.00 Hours Indian Standard Time

Note:

The client is requested to provide a document containing all issues or submit bugs at the bug tracking tool so that the respective QA team can analyze all issues, prepare test cases and submit to the development team. The development team will be responsible to resolve out the bugs and submit again for testing purposes and once all issues will be resolved and approved by the QA team. We will submit for client review. The turnaround time will be depended on the efforts required in bug resolution. The client will be facilitated to submit bugs as many times as he can in 1 month period.

Work Product Ownership:

Any copyrightable works, ideas, discoveries, inventions, patents, products or other information (collectively the "Work Product") developed in whole or in part by Dev Technosys in connection with the Services will be the exclusive property of Client. Complete transfer of ownership after completion of the project.

Service Provider has to hand over executable programs, final source code, database configurations, and all related files with project manual to the client with respect to the received fee (if requested), however if any fee or part of the fee is pending then service provider may hold the code or may deduct the adequate modules before delivery.

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