

# -- Proposal for DataGrid Blockchain --

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**Introduction**

Infograins software solution Pvt. Ltd. is a leading Blockchain development company which is located in Central India (Indore), we build high quality application that ensure security for large-scale enterprises & startups. We have a well-trained and seasoned team of 25 experts who have sufficiently good exposure of the Blockchain development. Infograins is providing some successful Blockchain-based software solution on Crypto currency, DEFI, NFT, Ethereum, Smart Contracts, and much more. We have been implemented Blockchain successfully into Industries like Retail, Farm, Supply chain, Diamonds, Education, Finance & Insurance Industry, where we have been created DEFI, Dapps, Smart contracts, ICO, STO tokens, coins regeneration, whitepapers, etc.

**Our Blockchain Development Services:-**

**Smart Contract Development**

Smart contracts are the simplest form of decentralized automation. They ensure the transparency of the online processes. They are self-verifying, self-executing and tamper-resistant. At Signity, we will get your smart contract codes to work in the way it is intended to.

**Public Blockchain**

There are no regulations on a public blockchain. Anyone with a broadband connection can join the network and do proof-of-work validation and transaction processing. Users that validate blocks typically receive some form of reward in such networks.

**Private Blockchains**

A private blockchain is a specific sort of blockchain network that is controlled by only one individual or organization.

**Consortium Blockchain**

These private and federated blockchains have certain characteristics in common, but they also have a difference. Unless you have been granted permission to enter the network, you will not be able to access the private blockchain.

**Hybrid Blockchain**

Hybrid blockchain is a revolutionary type of blockchain technology. The blockchain is uniquely transforming the world. It enables enterprises, governments, and other organizations to better handle their workflow and improve their systems with better solutions.

**ICO**

An initial coin offering (ICO) is a type of capital-raising activity in the [cryptocurrency](https://corporatefinanceinstitute.com/resources/knowledge/other/cryptocurrency/) and blockchain environment. The ICO can be viewed as an [initial public offering (IPO)](https://corporatefinanceinstitute.com/resources/knowledge/deals/offering-memorandum/) that uses cryptocurrencies. However, it is not the most precise comparison, as there are some crucial differences between the two fundraising activities. Startups primarily use an ICO is to raise capital.

**Smart Contracts**

Smart contracts are much like regular computer programmes, but they run automatically when specified circumstances are satisfied. They are commonly used to automate an agreement, so that everyone can know the result instantly, without the intervention of an intermediary. A process can also be fully automated, causing the following step to be executed when a certain condition is satisfied.

**Dapps**

Decentralized apps do not have to use a blockchain network. Decentralized programmes like Tor, Popcorn Time, BitTorrent, and BitMessage, run on a P2P network, but they aren't built on a blockchain—a specialized type of P2P network

**DEFI**

A shortened abbreviation for decentralized finance, DeFi refers to a wide range of public blockchain applications and initiatives focused on challenging the status quo in the financial sector. Blockchain technology is a common factor in decentralized finance (DeFi), also known as financial apps built on blockchain technologies, and usually employs smart contracts.

**Smart Contract Audit**

A comprehensive examination of a blockchain application's smart contracts is done in order to find faults in the code, or to locate design flaws or security vulnerabilities.

**Fungible Tokens**

Fungibility is the property of products or assets that are interchangeable with other similar products or assets.

**Asset Based Tokens**

Asset-backed tokens are a growing class of digital assets that open the door for compliant and regulated digital ledger investment. Security Tokens are a new tool for digital transformation, tackling the inefficiencies of the traditional systems while ensuring the security of investments.

**Non fungible Tokens**

Non-fungibility is a good thing since collectable tokens increase in value the more rare they are.

There are two major standards for Ethereum tokens: ERC-20 versus ERC-721.

It is crucial that Dapps created on top of Ethereum to interact fluidly with one another to form a healthy ecosystem. In the above situation, one of the tokens may be an alpha smart contract and the other a beta smart contract.

**Cryptocurrency Wallets**

It is a software program that acts as a digital wallet. Cryptocurrency wallets are designed to extend a high level of security.

**Ethereum**

It is an open software platform based on Blockchain technology that expedites the development of Smart Contracts and Distributed Applications (DApps).

**Hyperledger**

It is an enterprise-grade distributed ledger based on blockchain technology that uses smart contracts. We help you in building it for your enterprise.

**Supply Chain Blockchain**

It enables the formulation of a transparent supply chain process. We help you in developing a distributed ledger for your supply chain with the clean dissemination of data.

**Solidity**

Ethereum based applications and smart contracts are written in a language named Solidity. It is used to execute smart contracts in any Blockchain. We can help you in executing them.

**Exchanges**

Buying, selling or exchanging multiple cryptocurrencies are possible through a cryptocurrency exchange. Being the best blockchain development company in India, Signity Solutions excels in developing custom cryptocurrency exchange solutions.

# Our Corporate Capabilities:

# Web & Mobile Design (UX & UI)

# Mobile Development (Android & IOS)

# Search Engine Optimization (SEO)

* **Social Media Integration**
* **Support & Service**

**Introduction**

The DataGrid Blockchain addresses blockchain scalability with algorithms that increase transaction throughput directly proportional to growing quantities of node validators (miners). That increase also increases the amount of blockchain cyber security directly proportional to growing quantities of node

Validators (miners).

DataGrid is a blockchain platform developed by a Foundation called Prasaga, which has invested heavily in the crypto space to ease crypto users’ pains.

The DGT financial model addresses several aspects of the limitations of the current cryptocurrency

Models. The well-known Bitcoin model and the Ethereum model can be characterized as deflationary currency models that are non-responsive to variations in the economic "climate". This has resulted in widely varying, but generally increasing pricing against fiat currencies for these models.

We believe innovation can give us a better life. That’s why here at Prasaga; we are creating the DataGrid Blockchain (DGB), a fully decentralized blockchain that is fast, easy, and safe. A blockchain that can

deliver a better future with transparent government, eﬃcent markets, and real protections from bad

 actors. A network that runs at the real speed of business, secure against attacks.

**Data Grid Blockchain:-**DataGrid Blockchain is also called  (DGB). DataGrid is a blockchain platform

Developed by a Foundation called Prasaga, which has invested heavily in the crypto space to ease crypto users' pains. Prasaga aims to ease problems clouding other blockchains, including scalability issues,

 Security and Decentralization.

**Functionality: -** The DataGrid Blockchain addresses these three aspects with the following:

* Distributed Proof-of-Work (D-POW) for scalability
* Extensible Blockchain Object Model (XBOM) for parallelization
* The DataGrid Token (DGT) Financial Model for cryptocurrency.

**DataGrid Blockchain Launches Token Sale: -** DGB will require a native token that aids transactions and provides users with incentives.DGT will be sold as an ERC-20 token, which will later be exchanged on

1:1 basis to DGT which is native to the DataGrid Blockchain.

**Transaction Speed and Efficiency:-** One feature that makes DGB unique is that it’s the first blockchain to introduce a hybrid consensus algorithm. DGB leverages a dual chain consensus algorithm, combining both Proofs of Work and Proof of Stake.

Algorithms in its functioning. The feature combination makes the DGB super-efficient and reliable, with the characteristics of top transaction speeds and the release of new blocks.

**1. Sharding and scalability:-**Sharding is a technology that breaks down the database into small partitions called shards, which are operationally independent, and thus can provide space for increasing resource supply in the blockchain. And all blockchains in the crypto space lack scalability of transactions.

Because of their growth in adoption, it takes long durations to complete the verification of transactions.

**2. Parallel Transaction Execution: -** DGB institutes a system that allows it to execute multiple transactions simultaneously. Parallel execution of transactions will increase the speed of service delivery.

**Top Security:-**There is a safety-critical system enabling private, secure, interoperable networks. It will have vast applications in the industrial internet provision, messaging networks, fintech, and Dapps.DGB is instituting safety protocols ensuring the platform has top security from hackers and attackers.

In design, DCB will have maximum transparency but still maintain the highest integrity level for world data storage.

**The Data Grid Token: -** DataGrid Blockchain will leverage Ethereum blockchain’s current mining method to mine its token dubbed DataGrid token, acronym DGT. For Ethereum mining to occur, transactions have to consume gas, and in reward, the miners are given newly released coins.

There are two opposing goals for the value of the DataGrid Token (DGT):

 The first is the desire to create a usable currency. For this, it needs to be stable and related to externalities, such as national economies reflected in currency exchange rates. If the DGT is stable, it can see adoption for use as a means of commerce for a decentralized global economy.

The second is the desire for the DGT to gain in value against other currencies so we can exchange some of it (i.e. USD or EUR) during an initial phase. That is, the DGT should have a lower inflation rate than other currencies during an initial phase, and a negative internal price inflation rate.

**The volume of Token Exchange:-** The measurement of the volume of exchange of a specific token can be found on crypto exchange listing such as CoinMarketCap. This measurement shows the relationship between the token and other currencies, usually the USD.. A higher volume indicates a higher demand for the token. Since the supply of any specific token is essentially fixed, as described above, the price of the token marked to other currencies increases.

**Digital GDP and Token Value with Fixed Token Supply:-**The demand for a token as determined by the volume of currency exchange on an exchange listing does not take into account demand for that token within the economy of its blockchain. As the digital GDP grows within that token’s economy, the demand for the token will increase. As a result of the fixed token supply mentioned above, this reduces the number of tokens available for currency exchange and increases usage within the token's blockchain economy. Most people in the crypto world will not accept this concept currently, given the influence of the current success of Bitcoin as valued on crypto exchanges, focusing exclusively on deflation and store-of-value.

**Technology Used**

We will use Client-side and server-side technology to make this project more productive and user friendly.

**Client Side (Front-end):-**

We use client-side technology which requests to the server for specific action performed using:

**Front-end tech:**

 -- React js

**React js -** We will use React js for frontend design. React is a library for building composable user interfaces. It encourages the creation of reusable UI components, which present data those changes over time. Lots of people use React as the V in MVC. React abstracts away the DOM from you, offering a simpler programming model and better performance.

-- Web3js

**Web3** is a collection of JS libraries that lets you interact with an Ethereum node remotely or locally. Simply, it provides us with an API to use so we can easily work with the blockchain. Web3 works as a wrapper for JSON RPC to connect to a remote or local Ethereum node with either a HTTP or IPC connection.

**Server Side (Backend):-**

We use server-side technology which produces a response to client-side request to the website.

**Back-end tech:**

-- Web servers: Apache

-- Node js

-- Solidity

-- Database: MongoDB

-- Blockchain

**Node js -** Node.js is a platform built on Chrome's JavaScript runtime for easily building fast and scalable network applications. Node.js uses an event-driven, non-blocking I/O model that makes it lightweight and efficient, perfect for data-intensive real-time applications that run across distributed devices.

**Database (MongoDB)-** MongoDB is an open source NoSQL database management program. NoSQL is used as an alternative to traditional relational databases. NoSQL databases are quite useful for working with large sets of distributed data. MongoDB is a tool that can manage document-oriented information, store or retrieve information.

# QA methodology

Our singular focus on quality management and testing combined with our expertise in the development life cycle enables us to deliver practical services that drive improvement to the way you build and manage your enterprise applications and IT infrastructure. We engage QA team right from the start of the project to ensure the quality of the solutions we offer. It helps us to identify the variation from the specification at the initial stage that eventually save efforts and cost. We offer all Quality Assurance and Testing services with help of our experience and expertise by understanding the client requirement clearly and invest time in Planning, prepare quality standard, test scenario, Android, test reports and deliver quality and unique product to Client.

Test Objectives:

* Installation Testing
* System Integration Test (SIT)
* Network testing
* User Acceptance Test (UAT)
* Test Approach

# Types of Testing

* Functional Testing
* UI Testing
* Technical Testing
* Security Testing
* Compatible Testing

Scope of Support

Our Support services include:

* Bug fixes
* Technical, Functional and Operational support
* Root cause analysis
* Enhancements
* MIS Reports
* Support Documentation

All these services are effectively delivered remotely through continuous interactions with the customer to get an insight into the problem space. Internal processes for providing support services to meet stringent service levels.

# Mode of communication

* IM
* Phone Call
* Email

# Support Process

The Support Process will start after the delivery of the Source code of the project to Customer for the Time period of three month. INFOGRAINS will assign the Support task for the every team member of Support Team. (Mention Below). Process we follow:

* Assigned Team for Support.
* Mentioning the task for Every Team members.
* Analysis of Task done for Every Team member.
* Setting up the priority for every Task.
* INFOGRAINS will properly looking for the every milestone delivery.
* We will use Project Management System for tracking of every aspects of project.

# Critical Issues (Show Stoppers)

INFOGRAINS help Customer to solve out any critical issue raised by the customer at any point. Any of the Critical Issues arise than client has to inform INFOGRAINS by Call or by the Email.

Estimation

Based on the nature of the project and above solutions the estimated cost to develop this application and application will be: --

Estimated Days:-- \_\_\_\_\_\_\_\_\_\_Working Days

Estimated Cost :- \_\_\_\_\_\_\_\_\_\_ USD/-

Maintenance: - After deployment of the project we will provide free maintenance for three months under the scope of the project.

Payment Terms & Condition

I trust you find the proposal conclusive and will give us an opportunity to discuss further.

Let me know if you need any clarification from our end.

Note:- This can be Managed As Per The Mutual Discussion

Support Hours

Infograins provide 2-3 hours per day (Monday – Friday) support services. The give time period will be change as per the issue raised.

# Support Options

* On call Support
* Off site using internet and network facilities
* Direct login to client environment through VNC or team viewer client
* Easy to maintain and provide application support

# Warranty Support

Warranty Support would be of three month only for the bug fixing.

# About Us

Infograins is a leading software development company specializing in custom software development & digital marketing. Our highly experienced-dedicated team of software developers & online marketing consultants are capable to provide best-in-class, robust& cost effective software solutions along with best online marketing services. Infograins in-depth capabilities have enabled it to become one of the leading & reliable offshore software development companies in India.

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