erachain

blockchain software
development

erachain
platform

erachain platform

is an international software product with the unique set of tools based on blockchain technology for personal use and development of corporate solutions

scope of application

READY TO USE

IN DEVELOPMENT

IN DEVELOPMENT

e-commerce

SafePay service will allow customers of online shops to completely abandon the use of bank card billing data when making online purchases

logistics

Reduce global trade barriers solving lack of visibility and inefficiencies with paper-based processes, and save up to 20% on containerized shipping

healthcare

Keep record of the medical data and safely streamline across organizations, control the issue and turnover of drugs

finance

We are engaged in the development of several financial cases: factoring, issuance of promissory notes and bank guarantees

games

Era Market - a blockchain solution for buying and selling in-game goods between players
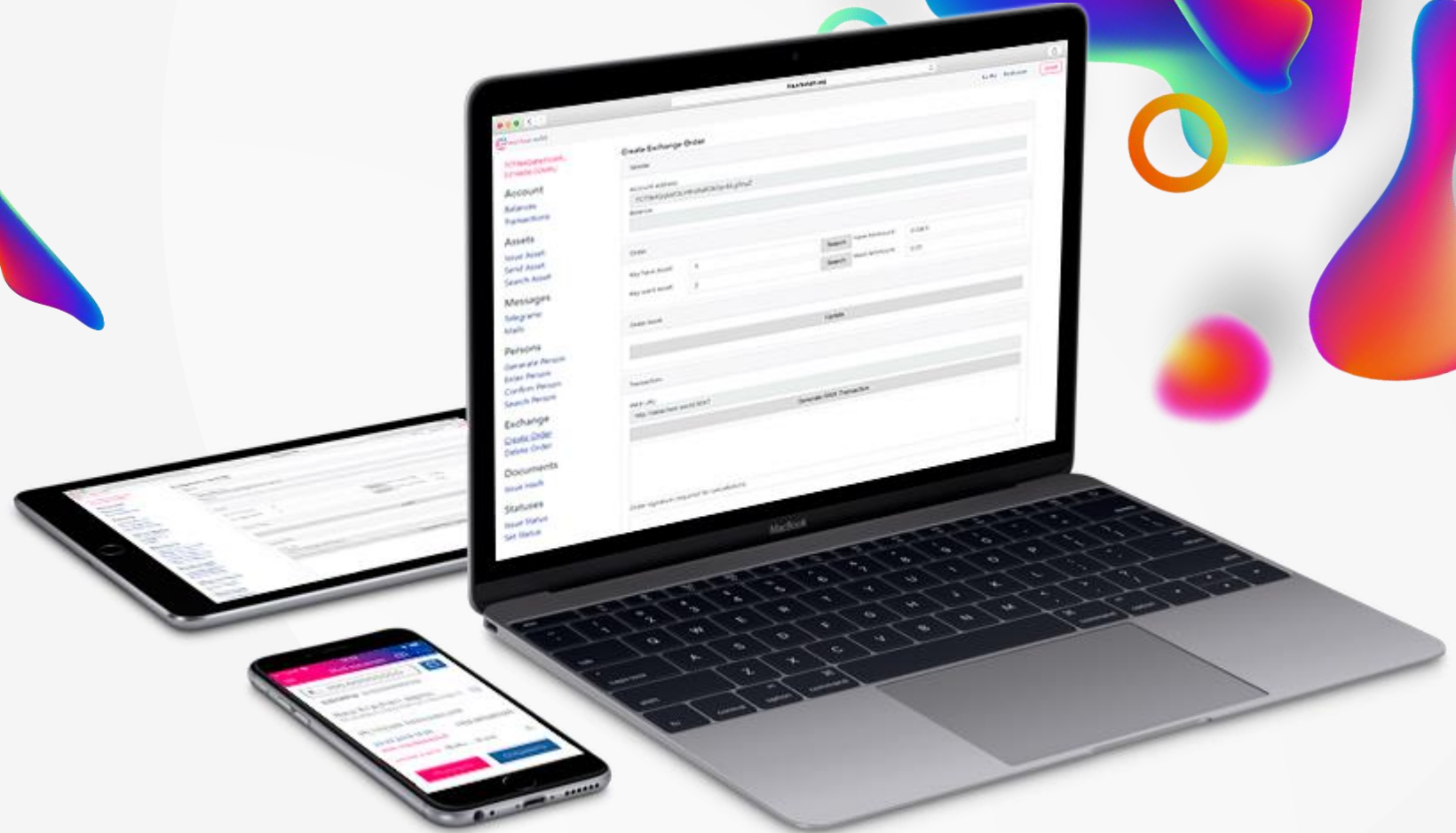
digital identity

Using the platform as a tool for identifying a person and creating a digital profile of a citizen or institution
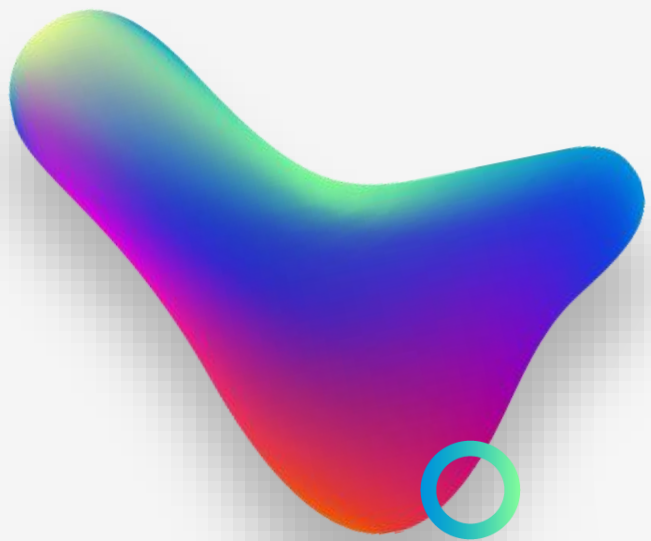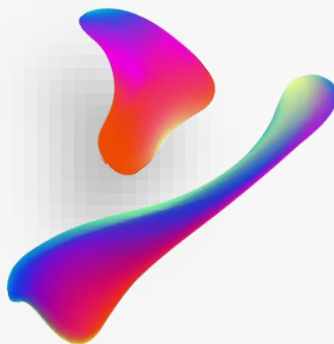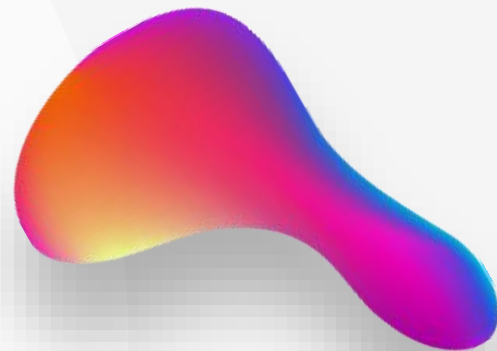
Product stage

Enterprise Ready.

Already developed web application, hosted at stores mobile apps for iOS and Android.

Software and applications are provided for free.

our exclusive features

Identification

The platform technology is based on the identity verification mechanism. For an identified user, it is possible to create an unlimited number of both anonymous and verified accounts in one purse.

Using a personalized account, the user accesses the functions of the Erachain environment. In order to prevent theft of funds, transfer from a certified account to an anonymous account is not possible.

stages of identification

1

new user

Anonymous without any personal information

add info

Fills out the form and send to registrar:

• Full name, Photo

• Date and the place of birth (google maps)

• Biography, Contacts

registration

Registrar checks out the personal data and enter it into the blockchain

2

verification

Verifier checks out the personal data and confirms the public key

Registrar - verified user in the Erachain platform

Verifier - verified user, who has 100 ERA (or more) on the account

Public key – unique identifier of the user

It is worth noting that the Registrar and the Verifier can be the same person.

Multifunctional

The platform has a wide range of built-in tools for various types of information and economic interaction in b2b/b2g sectors.

digital signature
Solve traditional issues without "middle man"; sign legally significant documents, and provide notarial services

files uploading
Upload any file and safely store information.

status assignment
Assign an academic degree, military rank, social status etc.

voting
Use the platform as a polling place and reduce electoral fraud

internal decentralized exchange
The platform provides security between the buyer and the seller

issue and account e-documents
Reduce the cost of paperwork; issue licenses, powers of attorney, and insurance policies etc.

digital assets creation
For real estate, transport, services, finance

message encryption
Conduct trustworthy and secure business correspondence

asset in debt
The function allows you to lend an assets and use it as a letter of credit

tokenomics

Accounting units

The work of the Erachain environment is based on two accounting units - Era and Compu. Tokens differ in their internal functions in the network, therefore they make the work in the system more efficient.

era

Era is a utility token that gives the right to use platform tools, participate in voting, build blocks, verify accounts

compu

Compu is a utility token that pays for writing transactions to a block.
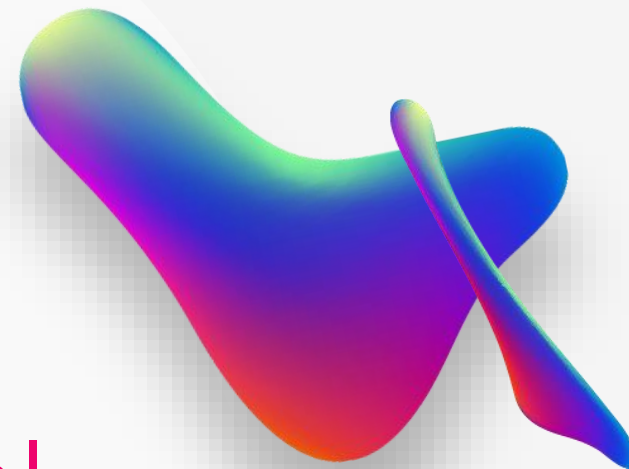
eco-friendly
protocol

Protocol

The algorithm of the platform consensus is based on the Proof–of-Stake & People protocol. The process of adding transaction records to the block does not require powerful hardware. It depends on the number of Era tokens on the balance. If the user has 100 Era, then he gets the right to confirm blocks. The more Era, the more blocks the network member can confirm.

100 ERA

essential technical characteristics

High network capacity

Unlike other blockchain platforms the Erachain platform has a constant block formation rate and a high throughput. Current platform parameters allow processing up to 17 million transactions per day with a size of 159 bytes.

Options	Minimum transaction size	Transactions per second	Transactions per block	Block size	Block creation time
Maximum	159 byte	7 000	211 000	32 Mb	30 sec.
Guaranteed	159 byte	200	6 000	32 Mb	30 sec.

Examples of documents and their quantity in one block

Documents	Size	Qty. in a block	Compu
Photo	300 kb	100	0.308194
Contract	166 kb	190	0.170989
Certificate	260 kb	126	0.267650
Insurance	150 kb	218	0.155078

Expert review

The technical audit of Erachain platform was performed by Modern Token, the company run by Alex Garkusha who worked closely with Ethereum founders in early 2014.

Chief Business Development Officer of Sberbank and also a member of the expert jury in blockchain field on InnoWeek 2018 - Sergey Shayakhmetov reckon our project is ready for export markets.

strengths of the project

The technical implementation is quite functional, although not sufficiently documented, which is a standard situation for almost all public Proof-of-Stake (PoS) protocols with open source implementations.

The quality of the product corresponds to the required level. The protocol takes into account modern practices of protection against known attacks when implemented.

The use of forger authentication provides additional protection against inherent attacks on PoS systems.

The presence of an MVP (minimum viable product) prior to the crowdfunding stage distinguishes the project from many ICOs. This gives an advantage in negotiating with potential investors and project partners.

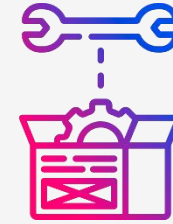integrate blockchain
into your business

Erachain API

The core of the platform is implemented on one of the most popular and widely used programming languages – Java.

Erachain API includes a wide range of functions and methods. To simplify and accelerate the development process we provide and regularly update all necessary libraries.
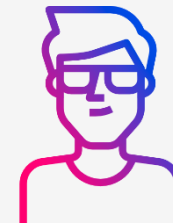
the platform written in one of the most popular languages

API, JS SDK, PHP SDK

wide set of ready functions

technical support from the founders team

what press say

TechCrunch

The idea of a blockchain network that works for the average person still seems far off. But Erachain wants to address that.

Read

CCN

Erachain Brings Security in E-Commerce by Announcing details of Innovative Payment Service Safe Pay.

Read

CRIPTONOTICIAS

Erachain junto con la compañía de TI especializadas en desarrollo de software bancario iSimpleLab, crearon un innovador servicio de pago.

Read

download free

Full node

Through it you will receive access to the full functionality of the platform and forging

Download platform

Web app

This is a web version of the platform with all features, but without the possibility of forging

Web app | **Desktop**

Mobile app

This is the light mobile version. Via it you can register new persons, store and transfer assets

Google Play | **App Store**

Community

Block Explorer

erachain

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development