



Blockchain Applications

Development Portfolio



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About us

ASSIST Software was founded in 1992 and is a software company based in Suceava, Romania. ASSIST Software specializes in outsourcing software development projects.



28 Years of
Experience



200+ Full-Time
Employees



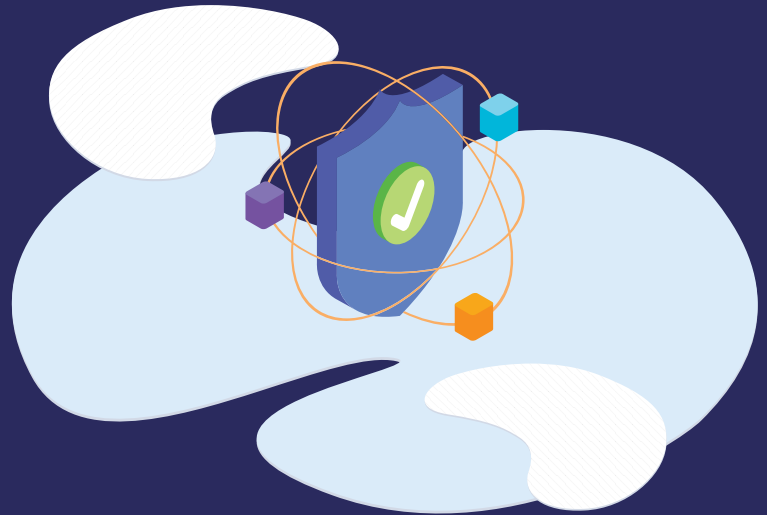
240 Clients
around the world



463 Projects
Completed since 1992

What is Blockchain?

Blockchain technology enables distributed public ledgers that hold immutable data in a secure and encrypted way and ensures that transactions can never be altered.



Our Expertise

1

Creating and deploying smart contracts using the Ethereum ecosystem and Solidity

2

Providing security audits for smart contracts

3

Developing decentralized apps ('DAPPS') based on the customer needs

Smart Contract Audit

The client provides us with the smart contract code and documentation

Run tests to identify common problems and security breaches

Go through the smart contract code to verify the possible improvements and optimizations

We provide a final report with a detailed summary of the audit process, recommendations, and security problems





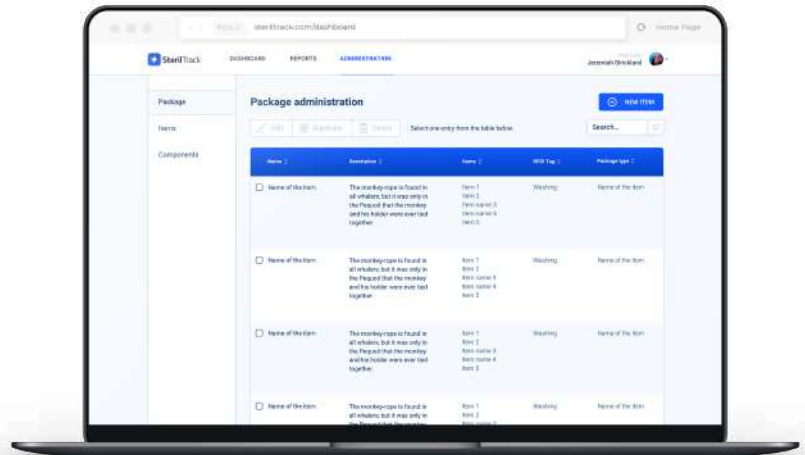
Distributed Ledger Technology Module

What does SterilTrack do?

SterilTrack is an application that can be used to monitor surgical kits that are used by doctors during surgery.

The project is based on RFID technology and has two main components that communicate with each other: an Android app, which is used to scan the RFID tags on surgical items in each step of the sterilization process, and a web application, which stores and processes data that is gathered from the app.

By using SterilTrack, doctors can quickly and easily view the status of an item or surgical kit.



Daily Summary

Current day

521

Sterilized
Tools

119

Kits
Sterilized

1040

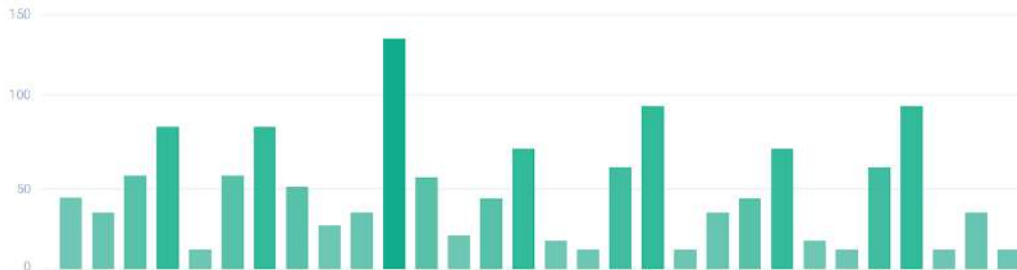
Instruments
sterilized

1h:20min

The average duration of
sterilization process

500 | Total batch in locations

Locations



Browser address bar: [http:// steriltrack.assist.ro](http://steriltrack.assist.ro) Home Page

Navigation: **SterilTrack** DASHBOARD REPORTS ADMINISTRATION

User: Welcome Jeremiah Strickland

Left sidebar menu: Package, Items, Components

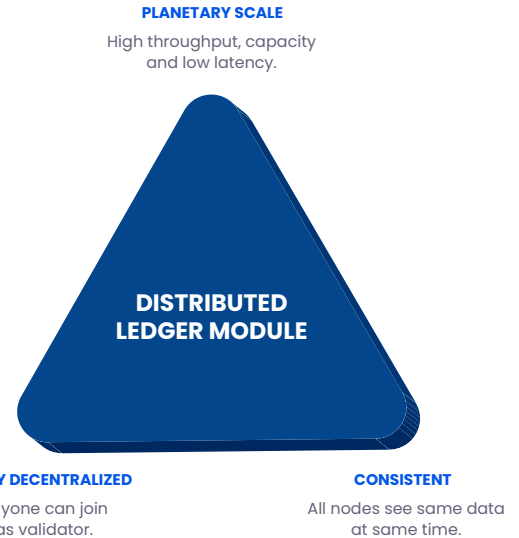
Section: < Back **Create new package** **SAVE**

Form fields:

- Name:
- Description:
- Items:
Enter items and separate them by a comma.
- Tag RFID:
- Package type:
[+Add new package type](#)

Important aspects to consider when dealing with data nowadays are security and transparency. **We are currently developing a distributed ledger module based on blockchain technology that will fulfill these two important requirements.**

This module is being developed using BigchainDB, the blockchain database. We chose it because of its main features: high throughput, low latency, powerful query functionality, decentralized control, immutable data storage and built-in asset support. It is a database with blockchain characteristics that perfectly fits the requirements of this module.



Decentralized-Consistent-Scale triangle

Technology stack

Programming languages



Frameworks



Database



BigchainDB features:

- high throughput
- low latency
- powerful query functionality
- decentralized control
- immutable data storage
- built-in asset support
- supports a wide range of industries and use cases
- allows developers & enterprise to deploy: blockchain proof-of-concepts, platforms and applications with a blockchain database

ASSIST Reward Token

ASSIST Reward Token is a decentralized application that provides an end-to-end system used for motivating and rewarding employees in a transparent way based on their performance.

At the heart of the system, a reward token is a utility token that is highly-configurable before being deployed to suit the needs of the company. The token represents currency that can be converted by the owner to various pre-configured goods.



It has a Rails backend application that facilitates the interaction with the blockchain and a frontend application that is built on top of it.

The database stores different types of data that can be used for graphics, reports and displaying useful information to the user.

We support custom integrations with third party systems according to client needs such as third party logins and transfers using slack messages.

passion. innovation. fun.



Digital challenges? Let us help you!

assist-software.net

ASSIST
Innovative Minds