literature survey:

The article proposes a de vaccine tracking scheme called vacchain our vacchain allows users (USER'S) to tack and trace the route of vaccines.

He propose three mechanisms, ramely, a system manager (sys-MAN), a mutual agreement concerning vaccine ownership and vaccine passports, to enhance the security and reliability of data recorded in the vacchain Ledger.

+ We develop this system on the substrate platform with Rust language.

our implementation evaluation and analysis have shown that vacchain can trace and track vaccines smoothly.

> vaccine tracking system named vacchain"
by utilizing the characteristics of block
chain technology, such as dencentralization,
immutability and transparency.

The notable feature of our proposed

system is that it is able to not only

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prevent the circulation of counterfelt

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vaccines but also trace the origin and

vaccines but transactions relating to a vaccine

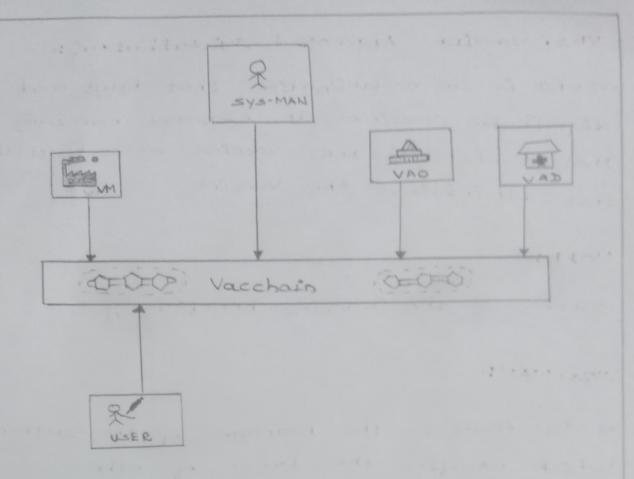
route of transactions relating to a vaccine

before it is even used.

prevent the circulation of take vaccine presport.

system overview:

- * sys-MAN >> system manager
- · VM > Vaccine Manufacture.
- · NAO > Vaccine Approved organization.
- · VAD > Vaccine Approved Distributor



VM (vaccine Manufacture):

> VM represents the company that manufactures the Vaccine.

your able to record information on vaccines such as vaccine name, type and ingredients into an vacchain.

VAO (Vaccine Approved organization):

y vao is organitration that approve the vaccine and is assumed to be a government agency of a country.

VAD (Vaccine Approved Distributer):

that administers the vaccine.

USER :-

a) user is the vaccine beneficiary.

343 - MAN :-

entities such as the vm, vao, vab.

A sys-Man acts as guardian that

protects the reliability of the data

protects the vacchain and plays

reconded in the vacchain and plays

an important role in securing the

network.