

Health Department

ImmunoChain : A Blockchain Enabled Vaccine Coverage Analysis System

Business Case

- Increase the immunization coverage, by capturing last mile data on ground, and make the data available for concerned persons to make decisions based on that.
- Mobile application that can be easily used in place of physical RCH book, for ease of use, conveying the latest information and awareness media contents directly to the beneficiaries, alerting about immunization details, dates etc
- Mobile application for use of health officials (health officers, medical officers, ASHA workers etc) for helping with their work processes.
- Reduce the duplicate data kept in multiple physical ledgers, and the effort and processes involved in it.
- High availability of data, even in the case of unforeseen natural disasters.
- Use of data for effective and accurate analysis of immunization process, prevent reporting of higher number of vaccinations to match projected numbers etc
- Instant reports and views for officials based on their roles and responsibilities.
- Identity management for vaccines starting from manufacturer to beneficiary who receives the vaccines.
- Using distributed ledger technology to keep digital data that are kept in different physical ledgers.

Blockchain

Outcome/Benefits

- The blockchain infrastructure of ImmunoChain guarantees better tracking of child and vaccine, thus making the UIP's easier and efficient.
 - The real-time insights provided by the ImmunoChain analytics dashboards helped the officials to design appropriate remedial measures to areas having low coverage of the program and also helps to redesign the program in cases when vaccines have to be recalled and re-administered on the children.
 - Built highly accurate data for traceability studies and computing realistic statistics on coverage and effectiveness of immunization programs.
 - Appropriate alert mechanisms such as alerting on low coverage on certain geographies, etc built over such statistics computed.
 - ImmunoChain would enable the health care departments to provide cost effective and efficient implementation of the immunization programs for the public.
 - Better immunization programs in terms of coverage and efficiency will definitely help us to have a more healthy and productive youth.
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