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HEALTHEREUM

A Decentralized Platform to Incentivize Personal Accountability of Health

Client Overview:

Healthereum is aimed to humanize the full cycle healthcare experience. The platform enriches provider-patient interactions, facilitates continuous feedback, promotes ongoing patient engagement, and empowers ownership of medical data. Relationships between a provider and patient is cultivated, strengthened, and grown in a personalized, yet technologically modern framework.

Business Requirement:

- Rewarding patients while solving critical cost verticals faced by all healthcare providers & hospitals.
- Solution to increase interoperability of siloed electronic medical record systems.
- Empowering patients and providers with a global peer-to-peer full cycle communications platform.

Solution Details:

Architectural Consideration

- Complete distributed system using peer-to-peer technologies.
- Rewards using ERC20 token on POA blockchain network.
- Integration with popular EMR systems such as Allscripts, EPIC.
- Mobile app with rich features such as personalized reminders, wallet and medical records.

Tools & Technologies

Presentation: React Backend: Go, NodeJs, Libp2p Database: MySQL, IndexedDB, WatermelonDB Blockchain: Solidity, ERC20, Wallets, Azure POA (Proof of Authority) Cloud: AWS, Azure Analytics: Hadoop, Druid Monitoring: Prometheus, Grafana Automation: Jenkins Cl, Docker, Terraform

Business Requirement – Service Requests

CARE INTERACTIONS (MIDUSO)

Healthereum incentivizes healthy behavior. Status of appointments is recorded, and attendance is rewarded using HEALTH tokens. The tokens accumulate as individuals continue to demonstrate personal accountability of healthy lifestyles.

CONTINUOUS FEEDBACK (PULSE)

Pulse is a standalone questionnaire software solution that will enable the dynamic creation of care quality survey questions. Patients may give feedback on the care received as soon as a visit is completed leading to honest satisfaction scores. Questions may also be delivered to patients who fail to attend appointments. Robust results can be displayed immediately to interested parties.

ONGOING ENGAGEMENT (HPED)

Ongoing patient engagement will be feasible by using HPED. Reminders and tasks will be delivered to the patient's mobile device for tailored care coordination messages in-between visits. Patients will be incentivized to achieve goals, and dynamic interactions between a provider and patient will lead to healthier living. Furthermore, HPED will help providers and hospitals comply with government mandated rules for value-based medicine.

CARE BENEFITS (VERIFY)

Payment for healthcare services will be streamlined and verified by the receiver of care. Verification of services will be transparent for patients. Verified users will include patients, providers and hospitals to render a trustful claim to insurance companies. This will augment the current claims process, thus reduce fraud and streamline payments.

About Evoke

Evoke Technologies is an innovative information technology services firm offering world-class software solutions. We are a client-centric and relationship-based company with a focus to provide cost-effective software development and support solutions. We are SEI-CMMI Level 3 appraised, ISO 27001 and 9001 compliant IT enterprise that focuses on quality and delivering business value. Incorporated in the year 2003, Evoke Technologies has been actively helping global corporations to innovate and transform their businesses utilizing IT. Our global delivery and engagement models help us to offer affordable long-term software solutions that meet our client's IT challenges and add business value. We constantly innovate and implement new software methodologies to provide our clients with a superior experience.

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