communIIITy

Discussions, for students, by students

By Team GAUS

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PROBLEM STATEMENT

We started our B. Tech first semester in the December of 2020, and 3-4 lectures into our Introduction to Programming (ITP) course, **we were already out of platforms to discuss questions**. We realised the magnitude of this problem when **our ITP Professor Saurabh Sir started receiving near identical queries from multiple students**. The online mode of learning was bringing up new problems, so we came up with a bunch of ideas. One of them being StackOverflow - The saviour of every software engineer. But the teams option in stackoverflow was free only for 3 months and then we were back to square one. So we decided to take the matter into our own hands and develop a solution for it.

PROPOSED SOLUTION

We present communIIITy, a platform where students and instructors from an institute can easily interact with each other, be it via asking questions or posting answers. Unlike platforms like StackOverflow, communIIITy is primarily geared towards people from individual organizations. This provides an exclusive communIIITy (pun intended!) platform customized to its unique needs, it also gives liberty to have discussions among people with a similar knowledge level and helps avoid the financial overhead of buying a teams subscription on StackOverflow. communIIITy uses the decentralised matrix protocol, which allows organisations to share best questions throughout the network. This also means lower downtime when compared to websites such as StackOverflow which can face outages.

communIIITy uses Tezos blockchain for peer discovery, and uses that data to exchange information with its peers. The peer-to-peer exchange is cryptographically secured and authenticated via signed trusted certificates. Highest upvoted questions are shared with other institutes.

UNIQUE SELLING POINTS

1.

Built upon matrix protocol ensures lower downtime.

2.

exclusive and personalized to each institute

3.

Uses Tezoz blockchain which ensures a robust nature.

4.

unique peer to peer data exchange based on matrix protocol

OUR TECH STACK

1. Blockchain
Tezos, SmartPy

2. Backend
Node.js, Express, MongoDB, Mongoose,

3. Frontend
Pug, CSS, JavaScript

THANK YOU