PROJECT INTERVIEW SUMMARY

Q: Explain your project on blockchain in simple terms?
A: We simulated database of hospitals using blockchain technology. A decentralized database of patients has many advantages over the centralized database, one of them is that there is no governing body which can alter the transaction details. Transactions are referred to as the changes made in the database. Conventionally, the changes are made by the Database Administrator. In our project, the ones making the changes are the patients themselves, thus eliminating the requirement of a third-party ledger(government in the case of government hospitals).
We also had added two major features to our project, which were Blood Donation and Organ Donation portal.
Q: What motivated you to do your project on Blockchain?
A: Blockchain is an emerging technology and Technergize, a project demonstration-cum-competition event of CSIS'18 and I saw it as a great opportunity to work further upon it. A team was formed and under the guidance of the project manager, together we read and researched more about Blockchain and Ethereum before we started working on our project.
Q: What were the challenges you faced working on this project?
A: Ethereum, a platform which uses Blockchain Technology, is an extremely new platform. We were to create our project on Ethereum and thus began our first challenge, which was choosing the framework. There are few frameworks available for Ethereum like Truffle, Geth, Parity, etc. We decided to use Truffle to simulate our project. The framework, being very new, had some major bugs and faults in the UI so it was quite a difficult task to use it.
Our second challenge was a discrepancy while writing smart contracts. A contract in Ethereum cannot have more than 2^261 bytes stored in it and we had to implement the medical details of a patient which consisted of tens of attributes including their name, age, disease, prescription, etc. In order to tackle the problem, we used hashing to store the large number of attributes of a patient.
Q: How was your experience at Computer Society India Symposium 2018?
A: CSIS'18 was a great event held in the peaceful region of India: Bodh Gaya, Bihar. Students from all across the country came and united, not to mention my team lead is from Kerala whereas I, from New Delhi. It was a mashup of various cultures and languages which doesn't only sound beautiful, magnificent it was. Minds from different parts of world to get exposure from world-class Entrepreneurs and Industrialists that came to be a part of the event.
Q: What is the road ahead for your project?
A: Our project, being Blockchain- based has a long road ahead. Connecting our project to main Ethereum network requires Ether which can only be bought using real money. Once we have enough funds to implant our project to the main network, we can say that the project is practical and workable and ready to fulfill the demand of the real world.
Of course, improvements to the user interface of our project is still being made.
Being an open source project, we are open for developers to contribute to our project and improvise it further. We are also open to funding and donations which can help us to eliminate some of the challenges mentioned above.
Despite many of them tackled till now, we still have tons of challenges to solve and make it a practically applicable project.

ADITYA SAHU,
Student at Amity School of Engineering & Technology, New Delhi
https://www.linkedin.com/in/aditya-sahu-aabb9b139/

The project interview got featured on MieRobots.com .
Full link here:
https://www.mierobot.com/single-post/Blockchain-Project-engcollege