PROJECT UPDATE-2

— Group 4 —
Members

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Ahanf Akib Ahmed(2312304642)
This week I did UI design with Figma and started gathering knowledge about blockchain. I am done with some basic UI design. I have done 4 interface designs.
These are
- Certificate Verification With data (Educational ICertificate Verification, Tutorial Certificate Verification, Medicine Company Certificate Verification, Random Company Certificate Verification)
- Certificate Verification With QR (Educational ICertificate Verification, Tutorial Certificate Verification, Medicine Company Certificate Verification, Random Company Certificate Verification)

Here is my figma design link :   📄 Asure BlockchainBaseAuthenticityChecker (2).pdf
 📷 CSE299.4
I also tried the use of **React.** How it can be implemented. Next week I will work on this part and hope to make all the interfaces that I have made designs.
These are the things I have done this week.

Tasmia Rashed Ramisha (2312131042):

Work Done This Week:
 This week, I focused on understanding the role of MongoDB in our project and how it will be used for managing user and verification data. My key tasks were:

- Learned the basics of MongoDB and how data is stored in collections and documents.
- Explored how MongoDB integrates with Node.js using the Mongoose library.
- Studied database structure planning for storing user details, issued certificates, and verification records.
- Understood how MongoDB will connect with the frontend (React.js) and blockchain layer in our system.
- Followed a YouTube tutorial playlist
  🔗 **https://youtube.com/playlist?list=PLgH5QX0i9K3p4ckbNCy71LRr_dG0AWGw9&si=2ZOkPNdoptHT4SYu**

My Goal in the Project:
 My goal in this project is to design and manage the backend data layer using MongoDB. This includes creating the database schema, managing CRUD operations, and ensuring secure storage of user and certificate information. I will also connect MongoDB with the login and registration interfaces developed by my teammates in Figma and React.js.

Challenges Faced:

I initially faced confusion about linking blockchain transaction data with MongoDB records, but after following several tutorials and documentation, I gained a clearer understanding of how the two can be synchronized.

Next Week Plan:

- Set up initial MongoDB collections for users and certificates.
- Test data insertion and retrieval using MongoDB Atlas.
- Begin integrating database logic with the backend.