

PROJECT UPDATE-3

— Group 4 — Members

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Ahanf Akib Ahmed(2312304642)

This week I made a Login UI with react, typescript, bootstrap. This contains a navigation bar and a side bar. The side bar will open after login. I used to learn to react and make implementations. I found some difficulties in collaboration with multiple web pages. In the next week I will be done with login, logout, resigner and home page UI. I will also set up our backend next week.

Mohammad Zonayet Hassan Polok(2031267642)

This week, my goal was to set up the work environment and develop the interface designed using Figma.

- Learned how MongoDB stores data in flexible Collections and Documents.
- Explored the Mongoose library, which connects our Node.js server to MongoDB and helps us structure the data (like defining fields for user details and certificates).
- Gained a clear understanding of how the core certificate data in MongoDB will be linked to the immutable blockchain hash for authenticity checks.

Successfully established the separated Frontend (React) and Backend (Node.js) servers but encountered two configuration issues.

Backend Server Crash: The server file used the old require() code style, but the project needed the new import style. I refactored (rewrote) the server code to use import statements. The backend server is now running successfully.

Frontend Dependencies: The React UI is failing to compile because a necessary icon package (lucide-react) is missing from the project files. Then, run the final 'npm install' command to download the package and launch the interface. But still failed to run the interface, as currently it's showing "PostCSS plugins have moved to a separate package"

Current Status

The backend server is stable and connected to the database. All necessary code and configuration are done. I am currently implementing the final dependency fixes to get the frontend interface up and running.

Sumya akter(21119133642)

I tried to build AsureCore.sol and AsureNFT.sol contracts together. This is a blockchain-based certificate verification system. AsureCore manages record issuance, verification, and revocation, while AsureNFT mints verifiable NFTs linked to those records for authenticity tracking.

YouTube

[Hardhat + Solidity Smart Contract Tutorial (FreeCodeCamp)](<https://www.youtube.com/watch?v=gyMwXuJrbJQ>) — explains contract creation, testing, and deployment similar to this project.