

CERTIFICATE VERIFICATION USING BLOCKCHAIN

Technology used:

Blockchain + Cryptography

Front end tools used:

HTML

CSS

JAVASCRIPT

Backend tools used:

JAVASCRIPT

WEB3.JS

SOLIDITY

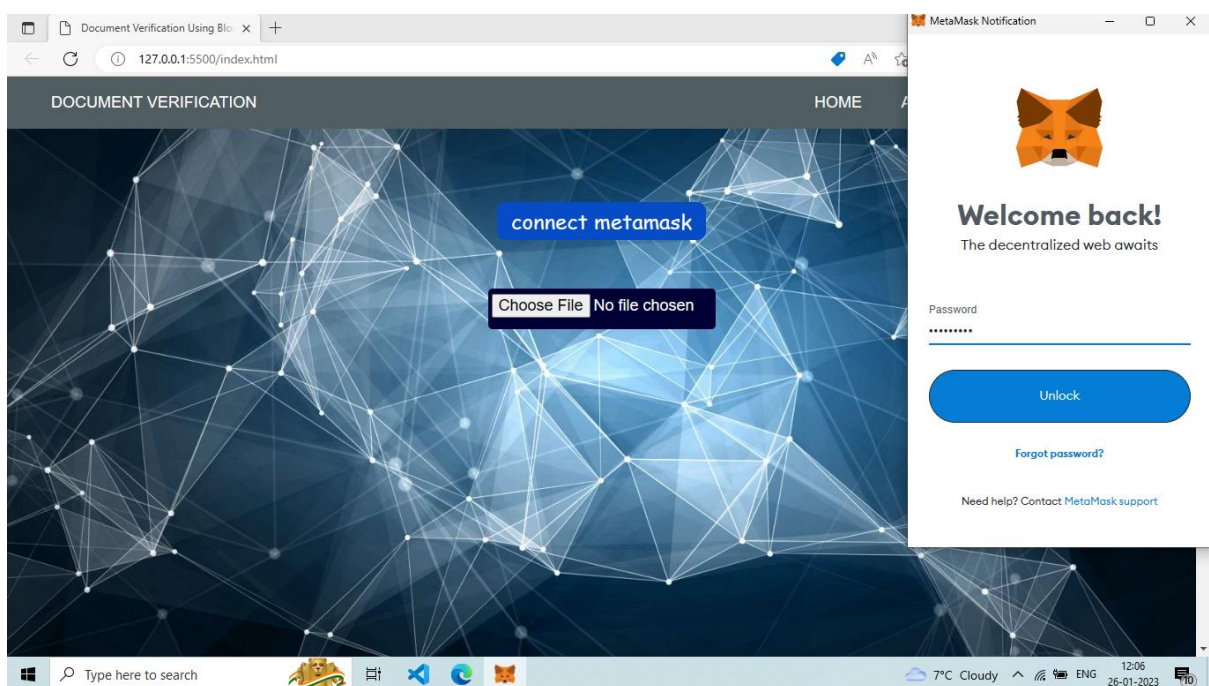
SHA ALGORITHM (cryptographic hash function)

METAMASK

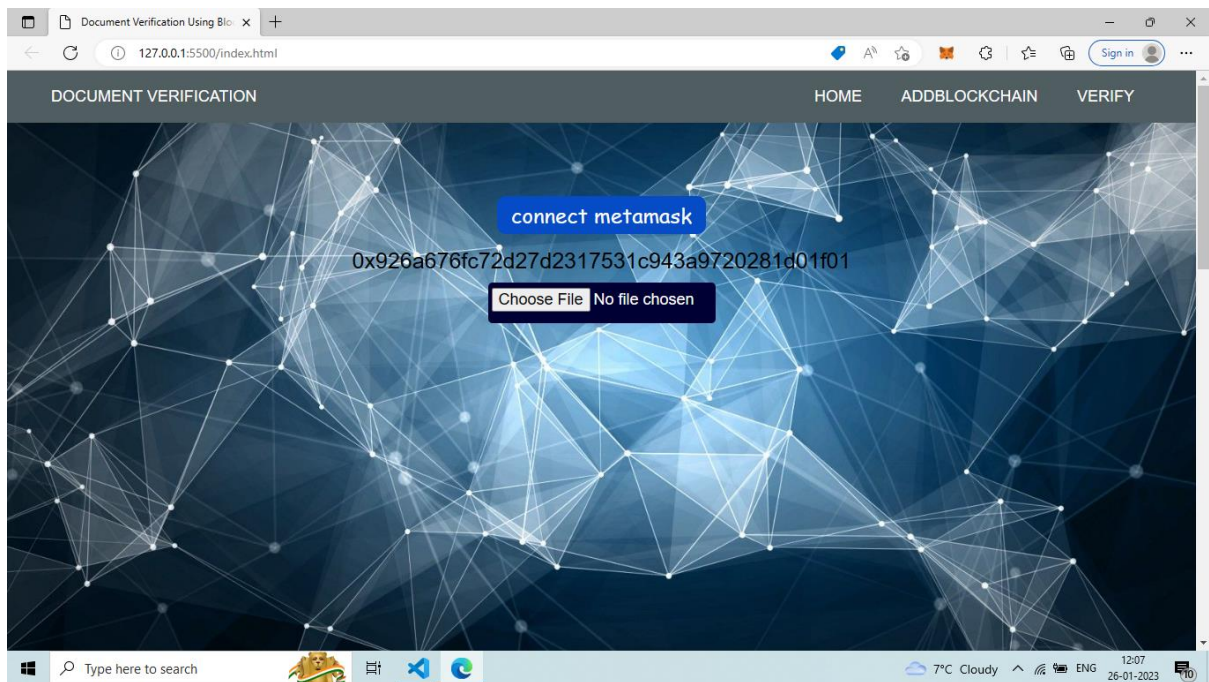
GANACHE PRIVATE ETHERUM BLOCKCHAIN

Demo of project:

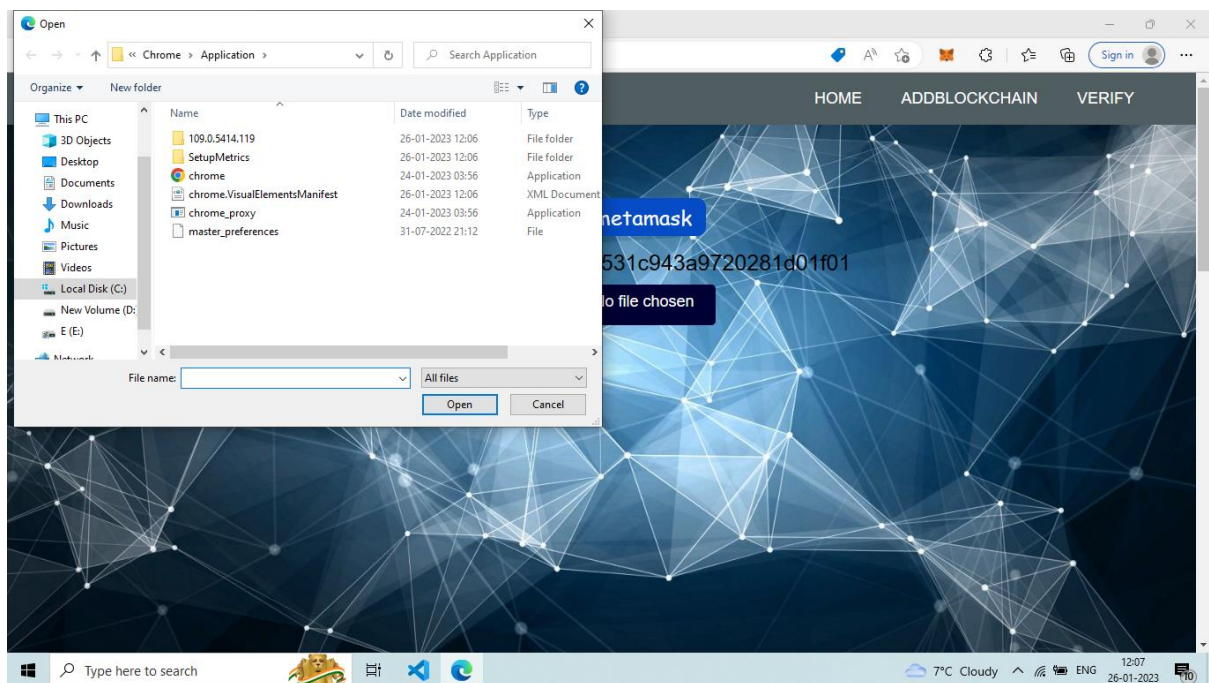
1 Connect to metamask



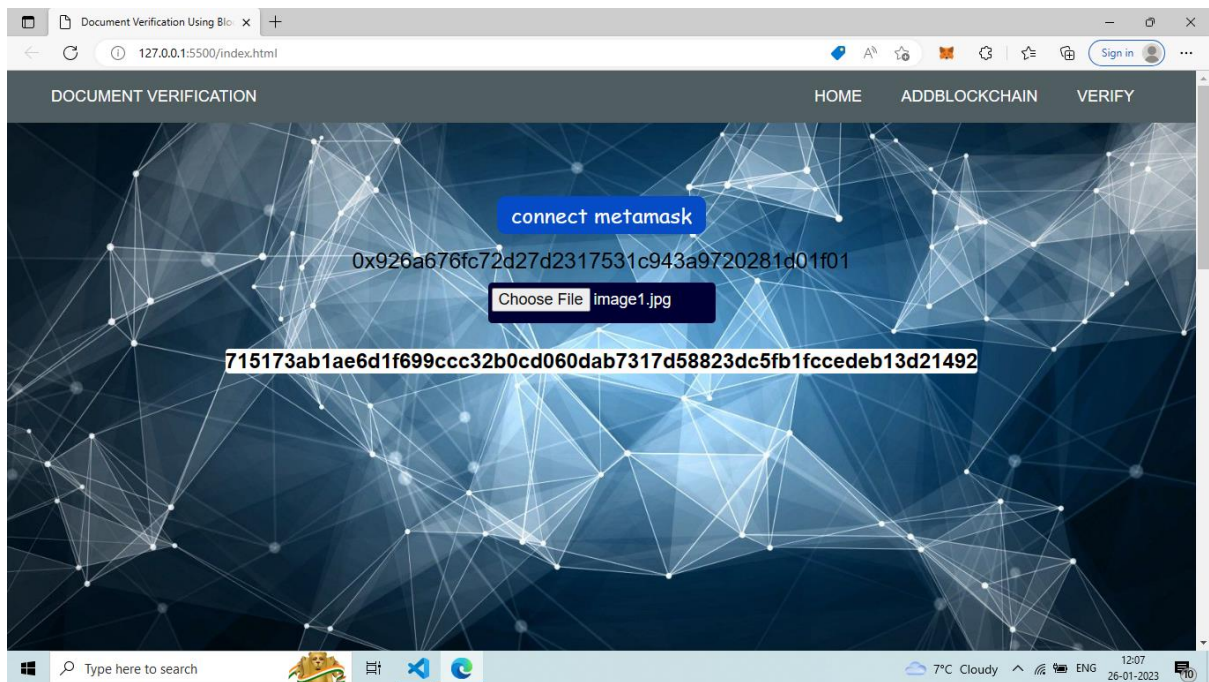
2 Metamask account connected successfully.



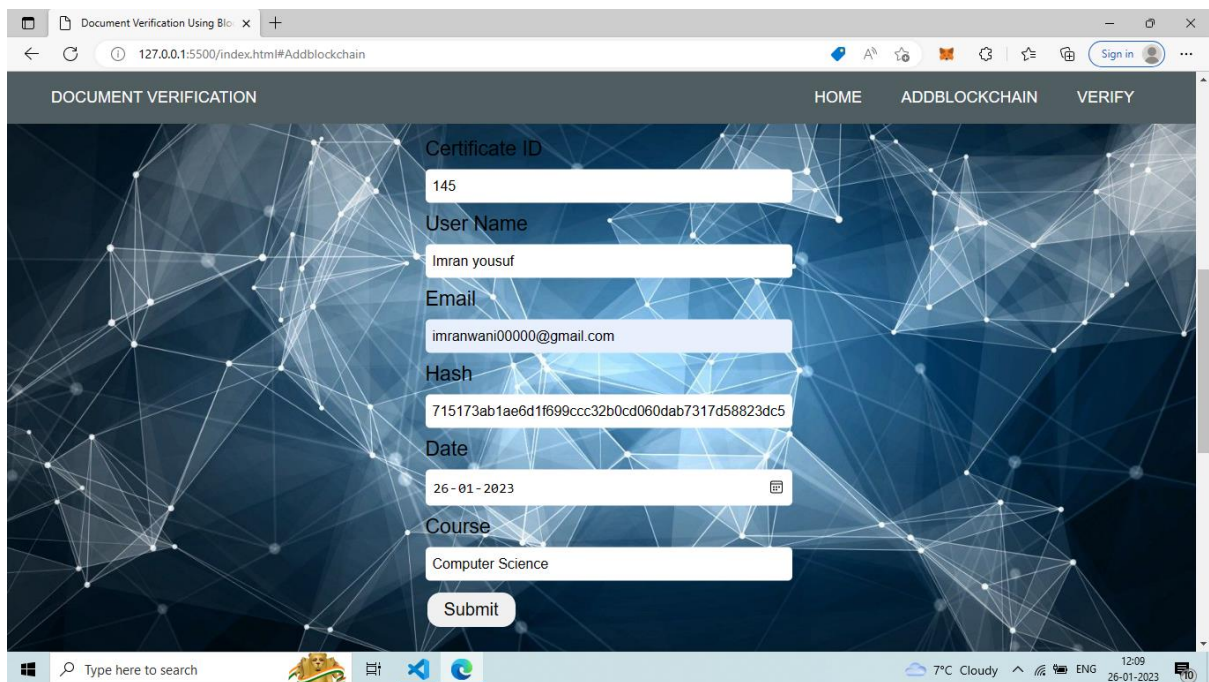
3 Upload file to get hash.



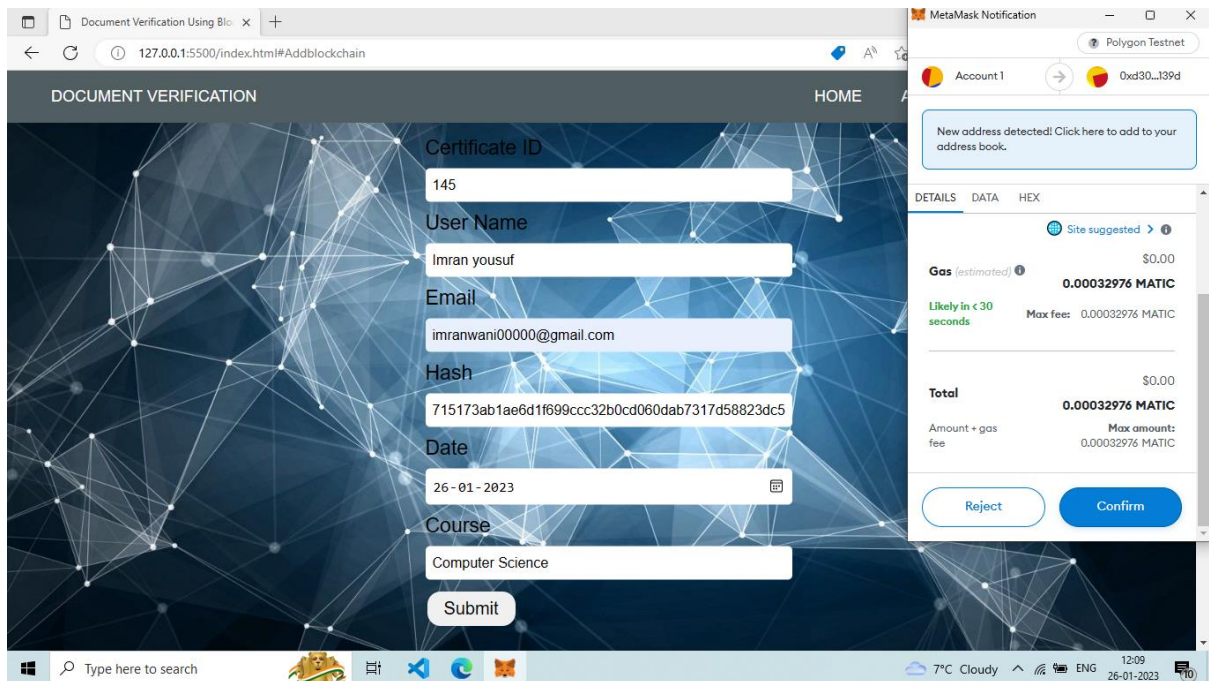
4 Hash value obtained.



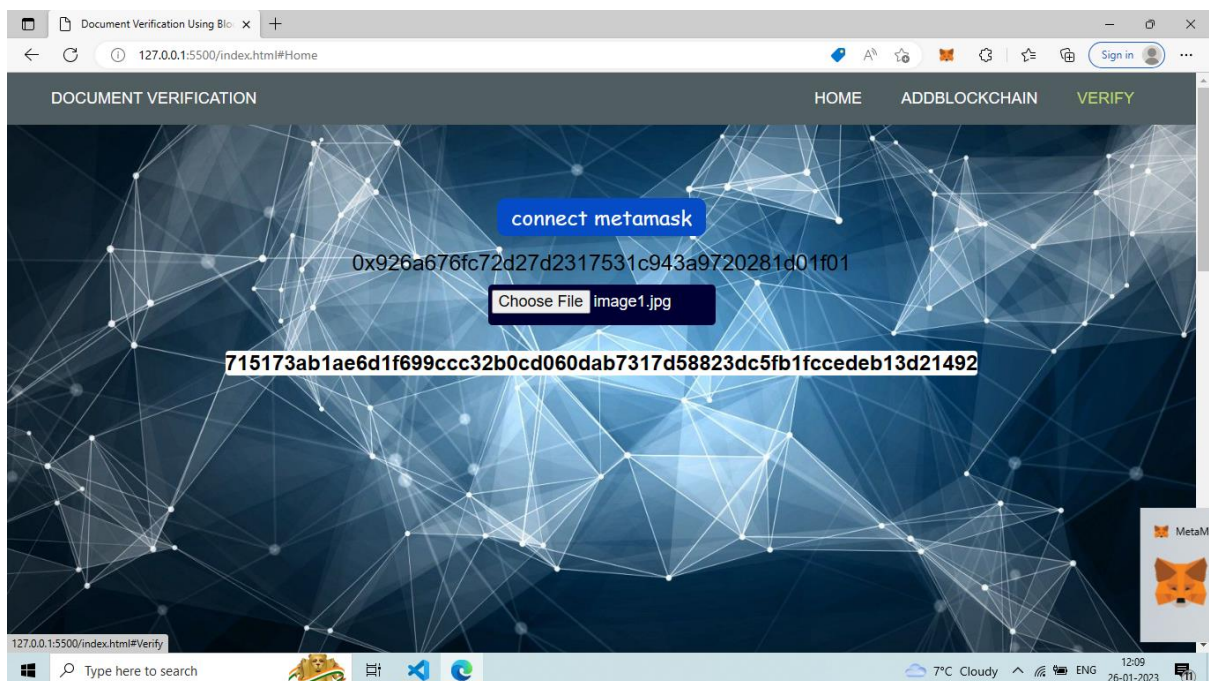
5 Add certificate hash and the details of student to ethereum blockchain



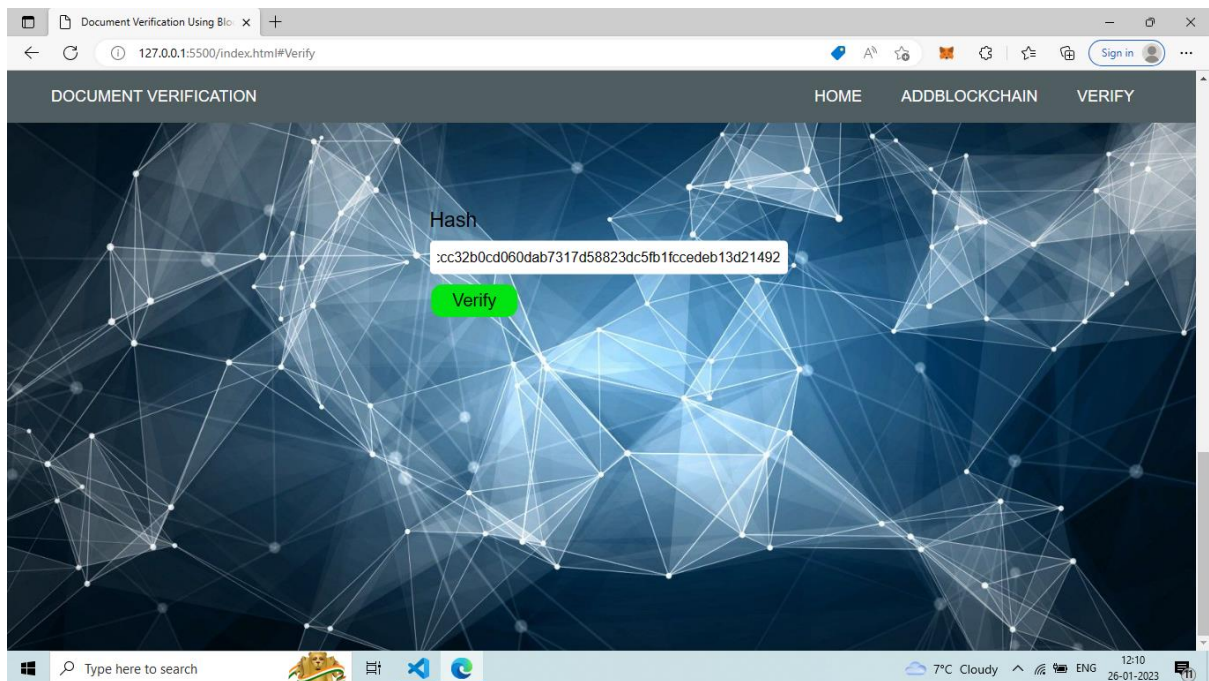
6 Confirm the transaction



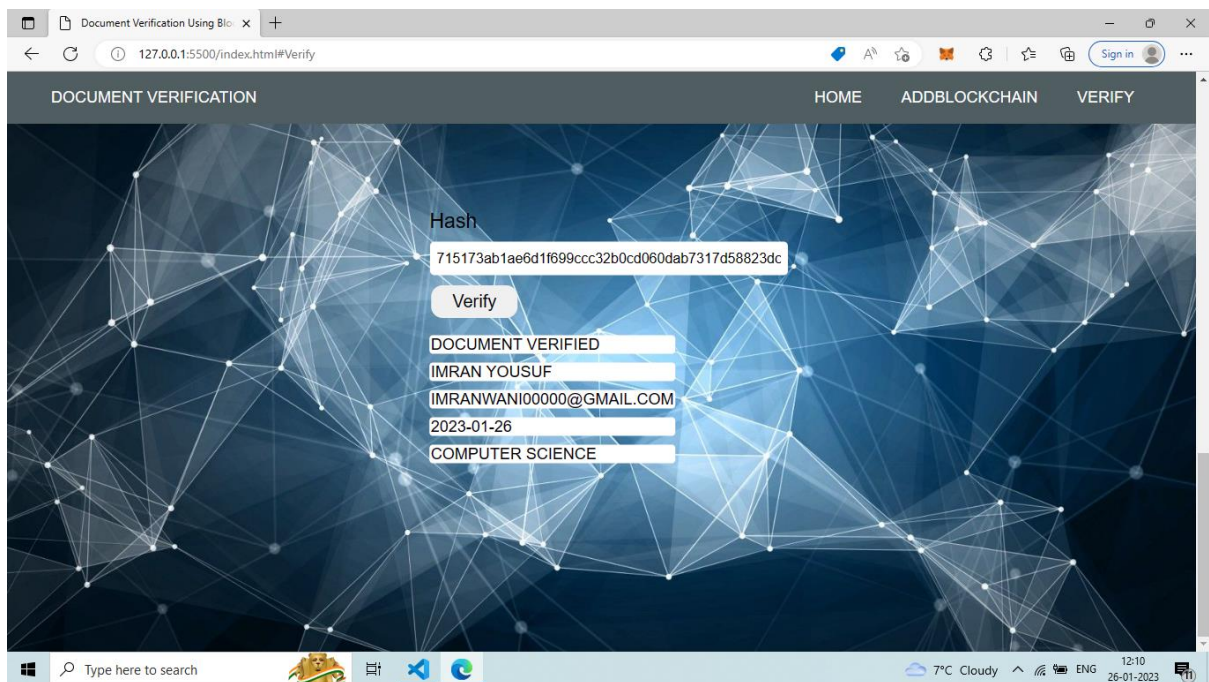
7 Transaction confirmed successfully



8 Verify the certificate.



9 Certificate verified.



10 Certificate not verified.

