

DIGITAL IDENTITY CHALLENGE

Siang Hostel



PROBLEM PREMISE

- **Students falsifying academic credentials for job applications is a escalating ethical concern,**
- **Document forgery result in deserving and genuine candidates losing opportunities.**
- **Document forgery also brings a bad name to the issuing authority**



EMAIL ID

AS

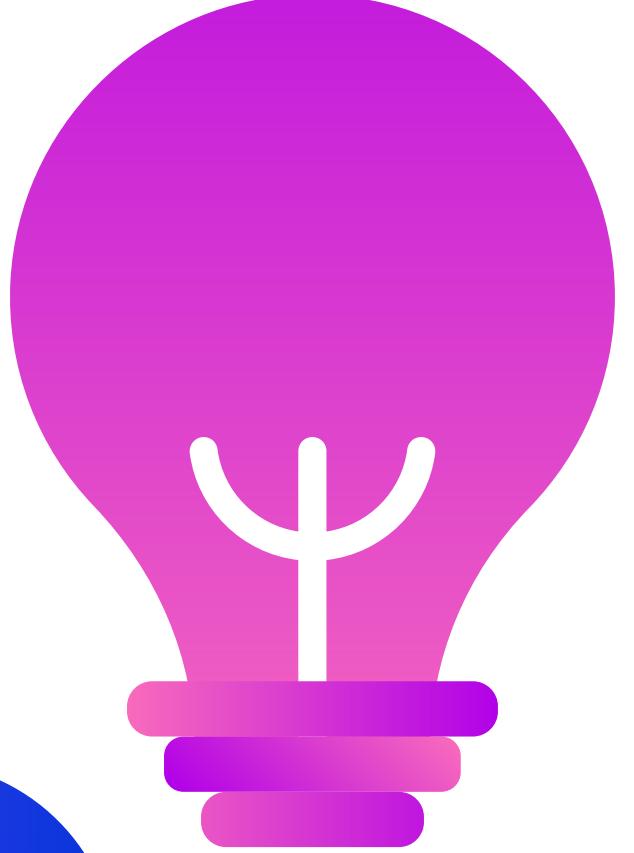
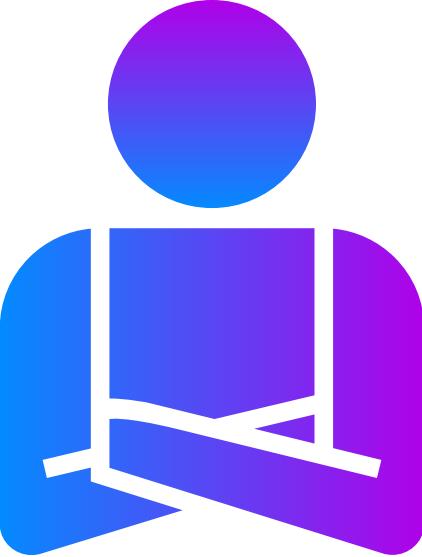
DIGITAL IDENTITY



SOLUTION

Introducing DDocs (Digital Documents)

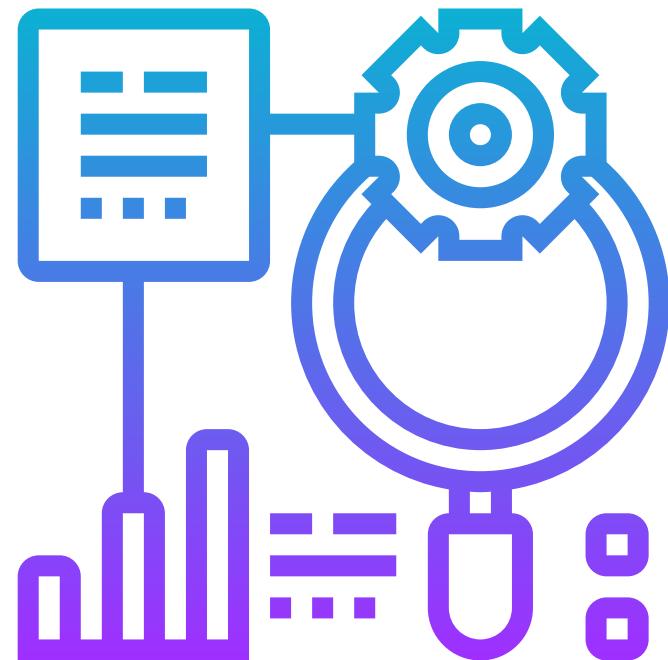
- Introducing an app to issue encrypted documents fortified by hash codes is a cutting-edge solution to combat document falsification.
- *This advanced model swiftly detects any tampering with any parameters, ensuring the immediate identification of false submissions.*



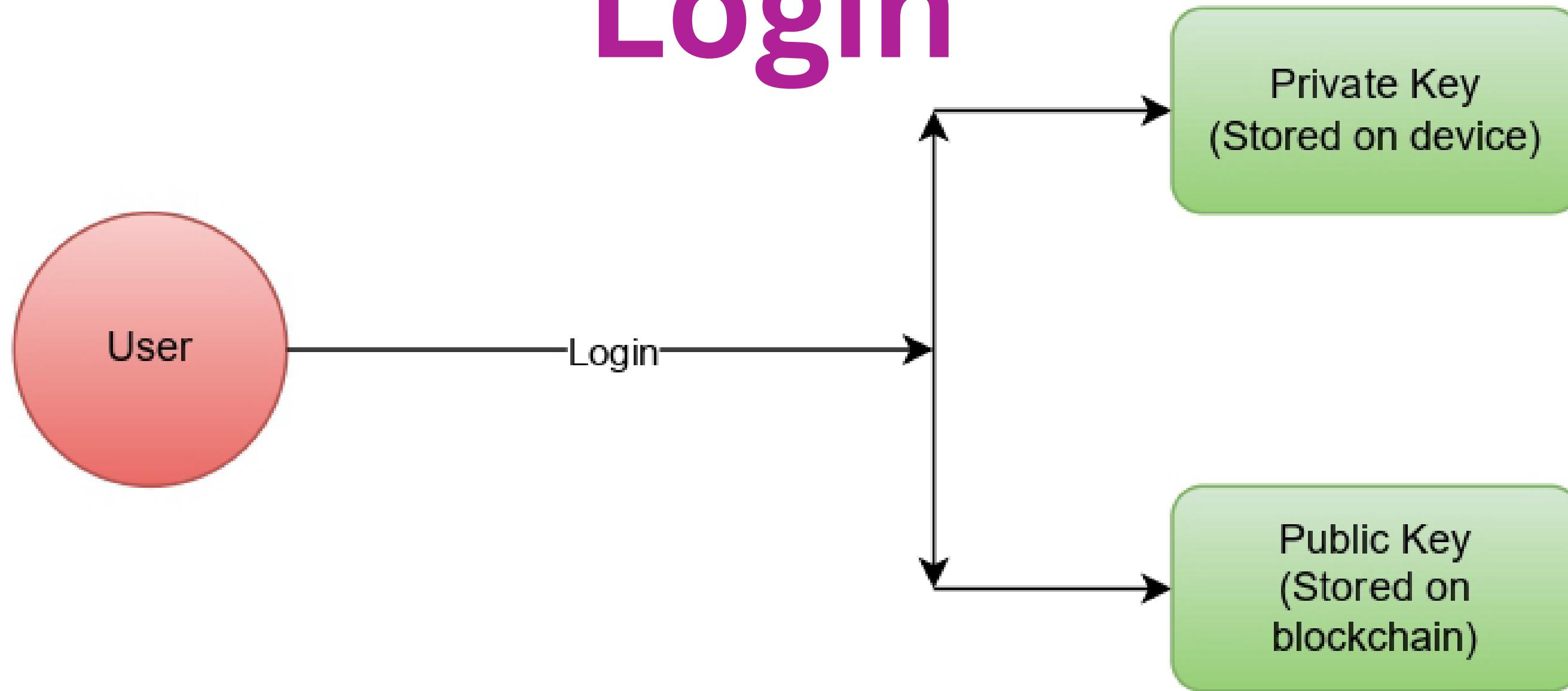
UNDERLYING CONCEPT

SIGNAURE BASED PDF

- **Signature-based PDFs utilize digital signatures to authenticate the document's origin, ensuring its integrity and verifying the identity of the signer.**
- **As the certificates hashes are being uploaded on the blockchain, it's issue history can also be tracked.**



Login

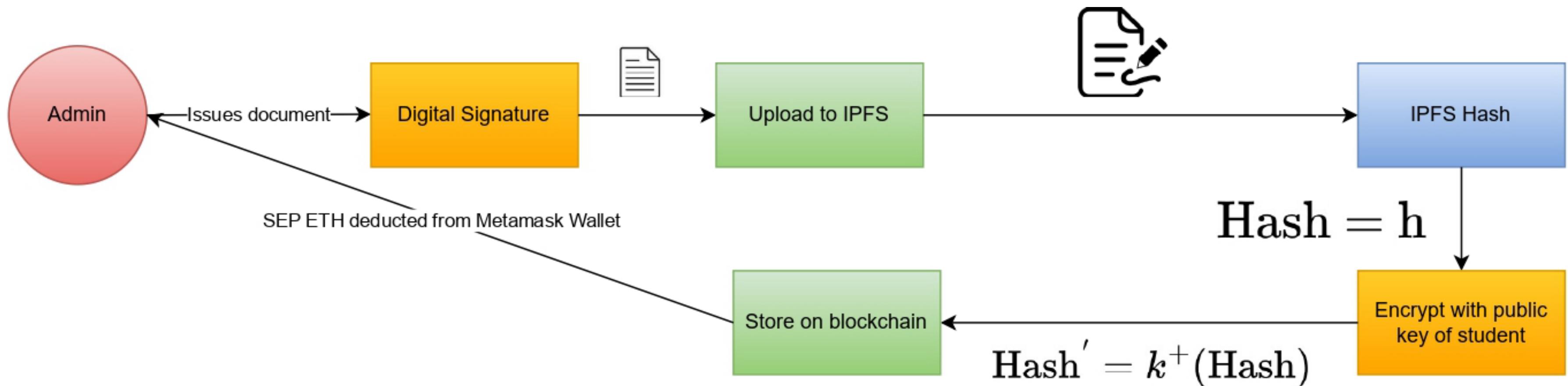


$\text{Private Key} = k^-$

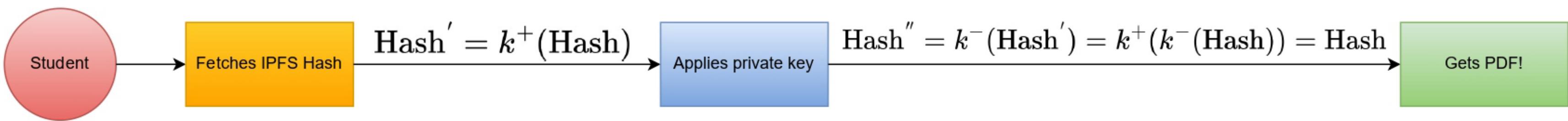
$\text{Public Key} = k^+$

Issuing Document

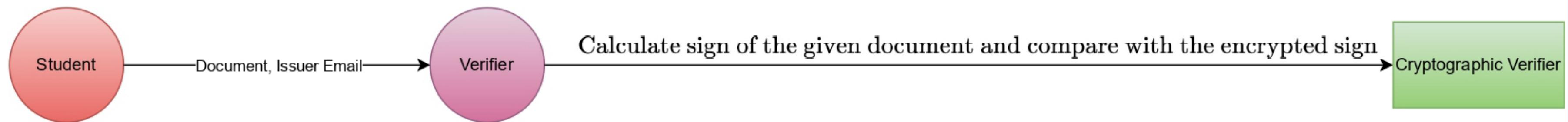
Digital Signature = $\text{Sign}(\text{Hash}(\text{Document}), \text{Private Key})$



Retrieving Document



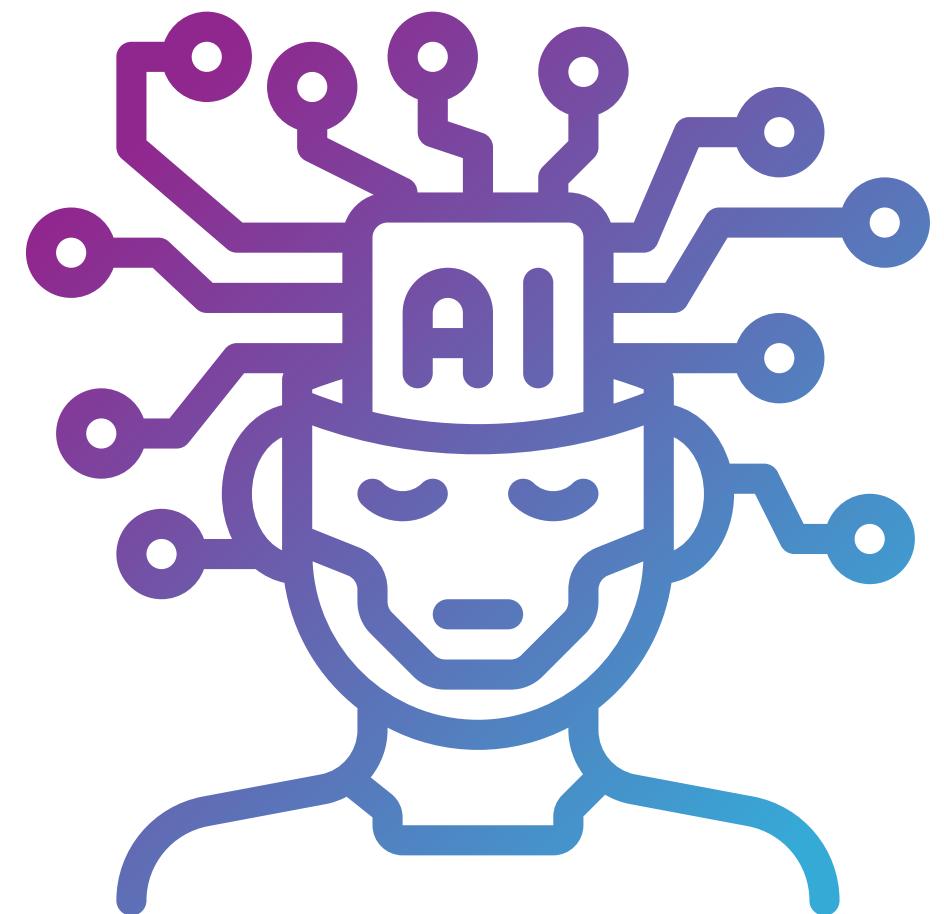
Verifying Document



Digital Signature = $\text{Sign}(\text{Hash}(\text{Document}), \text{Private Key})$

USE OF GENERATIVE AI

Incorporating a tailored chatbot into our app has revolutionized user engagement. Trained specifically for our platform, it seamlessly addresses user queries and provides valuable insights



7:07 5G LTE 5G 4G 07:06 PM

SiangWeb3 Online

SiangWeb3
Hello! Web3 enthusiasts!!
07:06 PM

How to issue
07:06 PM ✓

SiangWeb3
Here are the steps ->
1. Enter the email of the beneficiary of the certificate.

2. upload the document that you want to issue by clicking on the upload certificate button.

3. Click on the issue button to issue the document.

If the document is issued successfully you will get a pop up message indicating the same.
07:06 PM

How to verify
07:06 PM ✓

SiangWeb3
Following are the steps ->
1. Enter the email of the issuer in the text field.
2. Click on upload certificate.
3. From your file select the document that you want to verify.
4. Then click on verify
5. If the document is correct then a pop up message will be displayed that document is verified
07:07 PM

Type your message... 

Camera  



Features

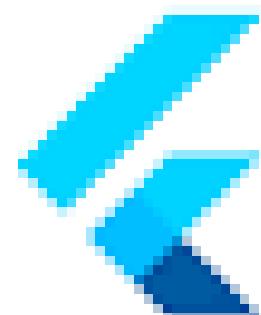
Available Across All Platforms

DDocs is built on Flutter, with its APIs hosted on pythonanywhere.com it is available on every kind of device such as Android app, iOS app, Web app, etc.



python anywhere

by **ANACONDA**.



Flutter

Only Admin can issue documents

Easy Usage: Upload PDFs and Download PDFs

Future Scalability

- An ecosystem can be created where institutions and established clubs can issue certificates/documents to individuals, and verifiers can verify the validity of the document on the said platform itself.
- Registering on the platform is easy, which requires only Metamask wallet and an email only

Demo Video

Thank You!