



AtHome

Record and manage certificates within
the system using blockchain technology



Outline

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The Problem

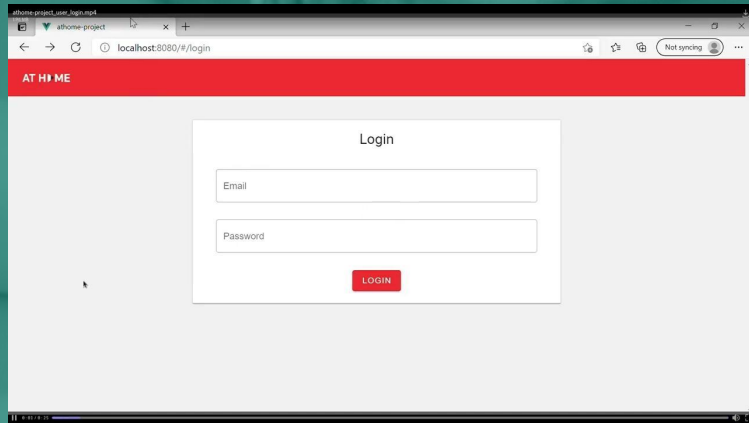


Problem statement

AtHome have problems keeping and managing certificates for students, their clients, to use for their intended purposes.

AtHome wishes to manage certificates of their clients, students from different organization, in order for students to have an easier time recording and managing their certificates and can easily export to use for the clients intended purposes.


Video





Possible solution

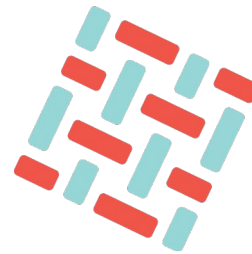
We used hyperledger fabric and private data to record and manage certificates issued from different organizations.




Supporting information

01

Hyperledger fabric helps organizations to communicate with one another at a lower query cost. It also allows private data communication between organizations.



HYPERLEDGER
FABRIC



Supporting information

02

Private data allows privacy of communication between organizations in the network without having to set up another network





Use cases / user stories

- As a consumer, I want to be able to login so that I can view my certification.
- As a consumer, I want to export my certification so that I can use it outside the system.
- As a consumer, I want to transfer to an organization so it can reflect with my current status.
- As an issuer, I want to request certification so that consumers of my organization can get their certification.
- As an issuer, I want to sign certification so that consumers can use with other organization.



Use cases / user stories

- As an issuer, I want to approve transfer of organization so that I can keep track of consumers in my organization.
- As an issuer admin, I want to manage certification request so that I can accept or reject the certification.
- As a issuer admin, I want to sign certification so that consumers can use it with other organization.
- As an issuer admin, I want to issue certification so that consumers of my organization can get their certification.
- As a issuer admin, I want to process consumer transfer so that I can manage organization members.

Screenshots

Login

LOGIN



Student Login



EXPORT SELECTED



Certificate

Issuer



Math competition

MUIC



Honors certificate

MUIC



Graduation certificate

MUIDS



Honors certificate

MUIDS



Math competition



Honors certificate



Graduation certificate



Honors certificate



Sports competition

Request Transfer

CLOSE

REQUEST





Issuer Login



UNISSUED CERTIFICATES

ISSUED CERTIFICATES

REQUEST SELECTED

Student	Certificate
<input type="checkbox"/> John Lee	Math competition
<input checked="" type="checkbox"/> Sand Witch	Graduation Certificate
<input checked="" type="checkbox"/> Camelia Anders	Singing competition



APPROVE SELECTED


Student	Organization
<input type="checkbox"/> Camelia Anders	MU
<input checked="" type="checkbox"/> John Lee	MU






Admin Login

✓ ISSUE SELECTED ✗ REJECT SELECTED

	Student	Certificate	Issuer
<input type="checkbox"/>	John Lee	Math competition	MUIC
<input checked="" type="checkbox"/>	Sand Witch	Graduation Certificate	MUIC
<input checked="" type="checkbox"/>	Ben Trillion	Honors certificate	MUIDS
<input checked="" type="checkbox"/>	Dylan Villain	Graduation Certificate	MUIDS
<input type="checkbox"/>	Abra Cadabra	Sports competition	MUIC

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Future Works

Questions?
