

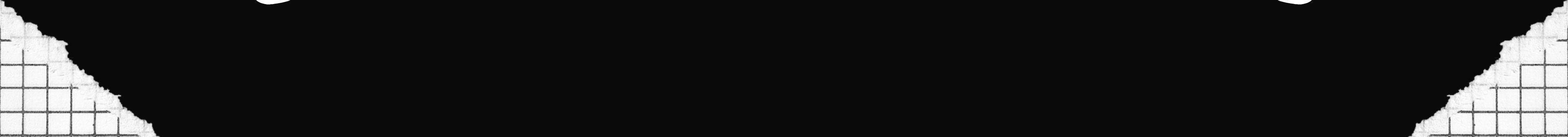
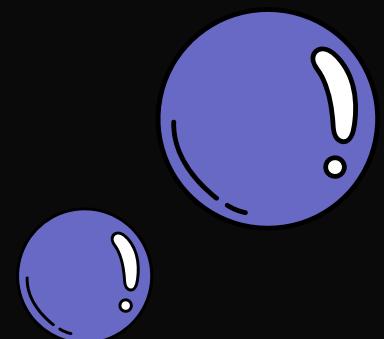
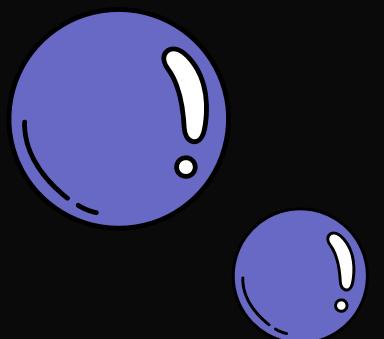
JORDAV

DIGICERTI

THE DECENTRALIZED
CERTIFICATION

See

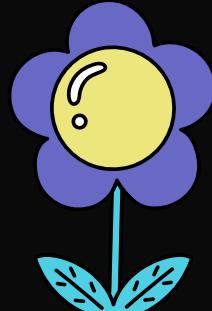
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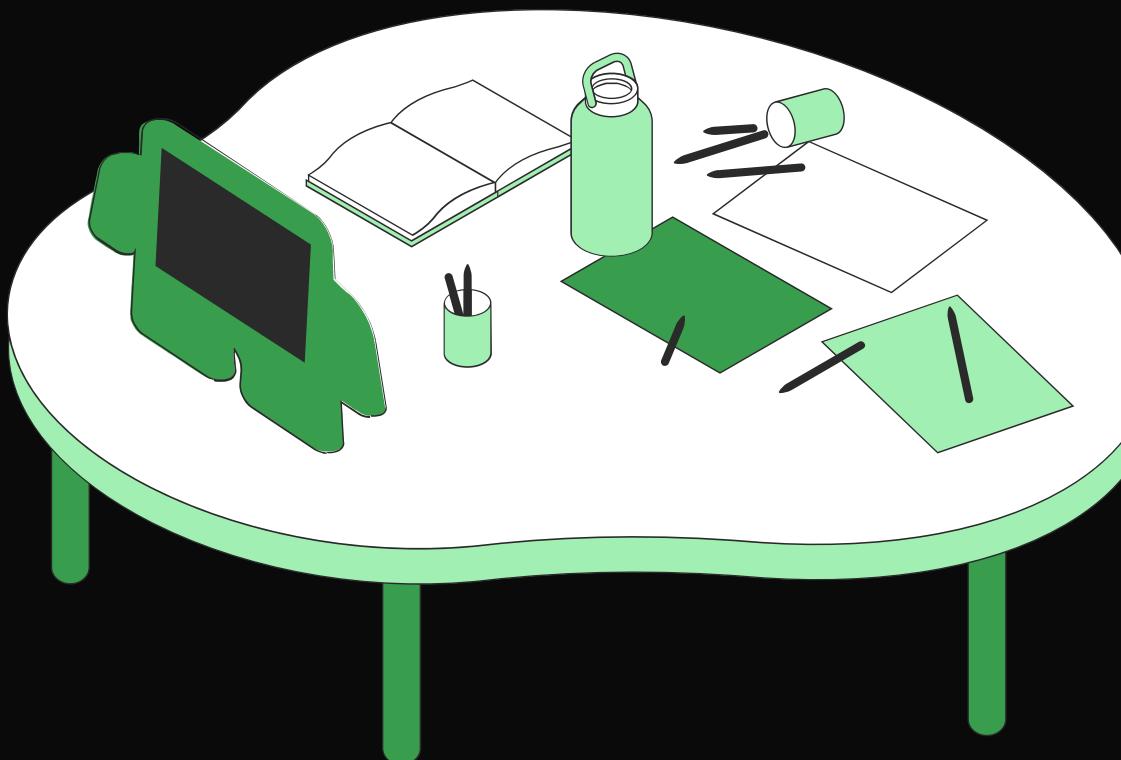


DESCRIPTION OF THE PROBLEM STATEMENT

Online Blockchain based certificate generation and validation system for government organisation



CONTENT



Introduction

Utilization

Work Done

Output

Future Improvisation

Conclusion

INTRODUCTION

A decentralized certificate verification platform is a secure, transparent, and tamper-proof system for verifying and storing credentials and qualifications. It uses blockchain technology to create a decentralized network where all participants can access and verify certificates and qualifications. With this platform, users can store their certificates and qualifications securely and share them with potential employers or academic institutions with confidence. The platform eliminates the need for intermediaries, reduces the risk of fraud, and provides a permanent and verifiable record of an individual's achievements. It offers a transparent, efficient, and accessible system that benefits both certificate holders and organizations seeking to verify credentials. The platform's decentralized nature ensures that certificates and qualifications cannot be altered, tampered with, or lost, providing assurance to employers and academic institutions that the certificates they receive are legitimate and trustworthy.

ENTITIES



User

Can Check the Certificates Which
are Issued by a Issuer



Issuer

Can Issue Various type of
Certificates for various courses
and students

UTILIZATION

Digital Identity Management:

Decentralized blockchain verification can provide a secure and decentralized solution for managing and verifying digital identities. This can be useful for applications such as online voting, secure access control, and secure identity verification for financial transactions.

Supply Chain Management:

A decentralized blockchain verification platform can provide an immutable record of a product's origin, journey, and ownership. This can increase transparency, reduce the risk of fraud, and help to ensure that products are ethically sourced.

Record Keeping

Decentralized blockchain verification can be used to store and maintain records in a secure, transparent, and tamper-proof manner. This can be useful for a wide range of applications, including but not limited to, medical records, property titles, and voting records.

UTILIZATION

Authentication

Decentralized blockchain verification can provide a secure way to authenticate a user's identity, device, or information. This can be useful in many different applications, such as secure login, access control, and secure data sharing.

Contract Management

Decentralized blockchain verification can be used to create, manage, and enforce smart contracts. This can automate contract execution, reduce the risk of fraud, and increase the efficiency of contract management.

WORK DONE

DigiCerti

About Logout

Hi!

Jordev

1 - Courses
57 - Students

Course Dashboard

Welcome
to
DigiCerti

+
ADD
CERTIFICATIONS

Courses details

S no	Course name	Instructor name	Certificate type	
1	App Development Using Java	Jay Patel	C2	View Course

This is Issuer dashboard where he can view his Courses/Certifications and also he can add certifications by clicking on add certifications

Add Course

Course Name

Issuer name

Select Certificate

Submit

WORK DONE

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Select Certificate

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WORK DONE

The screenshot shows a user interface for managing student details. On the left, a sidebar displays a greeting "Hi! Jordev" and navigation links "1 - Courses" and "57 - Students". The main content area is titled "Students details" and contains a table with 9 rows of student information. Each row includes columns for "S no", "Student name", "StudentEmail", "Grade", and a "View Certificate" button.

S no	Student name	StudentEmail	Grade	
1	Varun	Varun123@gmail.com	A	<button>View Certificate</button>
2	jay patel	jaypatel@gmail.com	10	<button>View Certificate</button>
3	vishnu swaroop	vswaroop04@gmail.com	10	<button>View Certificate</button>
4	divanshu	divanshu123@gmail.com	10	<button>View Certificate</button>
5	Sasuke	sasu@1gmail.com	10	<button>View Certificate</button>
6	vishnu swaroop	vswaroop04@gmail.com	10	<button>View Certificate</button>
7	Sasuke	sasu@1gmail.com	10	<button>View Certificate</button>
8	jay patel	jaypatel@gmail.com	10	<button>View Certificate</button>
9	divanshu	divanshu123@gmail.com	10	<button>View Certificate</button>

By Clicking on the view course in the course dashboard he can see the students listed for his course

The screenshot shows an "Add Student" form. It features two buttons at the top: "Manual Upload" and "Upload by Excel Sheet". Below these are three input fields labeled "StudentName", "StudentEmail", and "Grade". At the bottom is a "Submit" button.

The screenshot shows an "Add Student" form. It features two buttons at the top: "Manual Upload" and "Upload by Excel Sheet". A message "Please Upload the Excel File" is displayed above a file input field. The file input field shows "Choose File No file chosen".

ISSUER CAN ADD STUDENTS MANUALLY OR
HE CAN ADD BY EXCEL/CSV DATA

WORK DONE

User Dashboard

The screenshot shows the DigiCert User Dashboard. On the left, a sidebar displays the user's name "rajat" and statistics: "10-Certifications" and "5-Issuers". Below these are links for "Account", "Certifications", and "Settings". The main dashboard area has a "Dashboard" header and a central "WELCOME!!! TO DIGILOCKER" message. Under the "Certifications" section, a certificate for "App Development Using Java" is displayed. The certificate is titled "CERTIFICATE OF COMPLETION" and is awarded to "rajat singh" by "Jordev" on "2023-02-11". It includes a QR code and the Digicert logo.

After Issuing the Certificates User can see his/her certificates in his dashboard

WORK DONE

DigiCerti

About Logout

View & Verify your certificate here

CERTIFICATE
OF COMPLETION

This award is proudly presented to

vishnu swaroop

Has been completed the

App Development Using Java

by

Jordev

2023-02-11

Date

DigiCerti

Credential Verification

This Certificate now Legitimately belongs to this person

Now, Verify the credentials with Blockchain Transaction

Verify & Validate

This is the verification portal of the certificate and anyone can open this url and verify it
By Verifying it we can see the transaction details of the certificate

WORK DONE

Verification Successful



Your account has been successfully verified!

Transaction Details

Chain Id 80001

Transaction Hash 0x617bc4932db19532b62901afd3a1f62e2485dfbd40d34099573d01ad5bcd0d65

from 0xE06D49a5F530b2144CecF6eCaF954Db5b8fa579E

to 0x3B2462c7f04c54288887dfE6E2154278Dd476A04

Close

This is the verification page where anyone can see transactionhash, ChainID and Smartcontract address

Jordev

Jordev is the company which is registered under our policy statements

Course Name : App Development Using Java

Download PDF

SHARE

The course App Development Using Java is successfully completed by the

Varun

See more »

Also someone can visit this link by scanning the certificate's qr code and can also download it

OUTPUT

The screenshot shows a transaction details page from polygonscan.mumbai. The transaction hash is 0xe112af32d50d3e357605c272d5b8501a387b1f76edb686b5f54b0bc4d4b49335. It was successful and included in block 31933827, which has 19 block confirmations. The transaction occurred 1 minute ago (Feb-11-2023 06:26:21 AM +UTC). The transaction fee was 0.000279024002976256 MATIC (\$0.00). The Txn Type is 2 (EIP-1559). The Gas Limit was 186,016, and the Gas Used by Transaction was 186,016 (100%). The transaction originated from address 0xe06d49a5f530b2144cecf6ecaf954db5bbfa579e and was sent to a contract at address 0x3b2462c7f04c54288887dfe6e2154278dd476a04.

Field	Value
Transaction Hash:	0xe112af32d50d3e357605c272d5b8501a387b1f76edb686b5f54b0bc4d4b49335
Status:	Success
Block:	31933827 (19 Block Confirmations)
Timestamp:	1 min ago (Feb-11-2023 06:26:21 AM +UTC)
From:	0xe06d49a5f530b2144cecf6ecaf954db5bbfa579e
To:	Contract 0x3b2462c7f04c54288887dfe6e2154278dd476a04
Value:	0 MATIC (\$0.00)
Transaction Fee:	0.000279024002976256 MATIC (\$0.00)
Txn Type:	2 (EIP-1559)
Gas Limit:	186,016
Gas Used by Transaction:	186,016 (100%)

By clicking on transactionhash it will get redirected into this transaction page
we have deployed our smart contract in Polygon

FUTURE IMPROVISATION

1

Design Certificate

We can add in-build designing platform for certificate designing.

2

Older Certificates

Right now, We are just working on New Certificate Generation But On Future We will try to add already Issued certificates

3

Payment System Integration

For purchasing our plans, automatic payment integration can be added like Stripes.

CONCLUSION

We Achieved in Creating a Digilocker which is secure and transparent way to verify the authenticity of certificates, making it difficult for fraudsters to forge certificates

