JORDAV

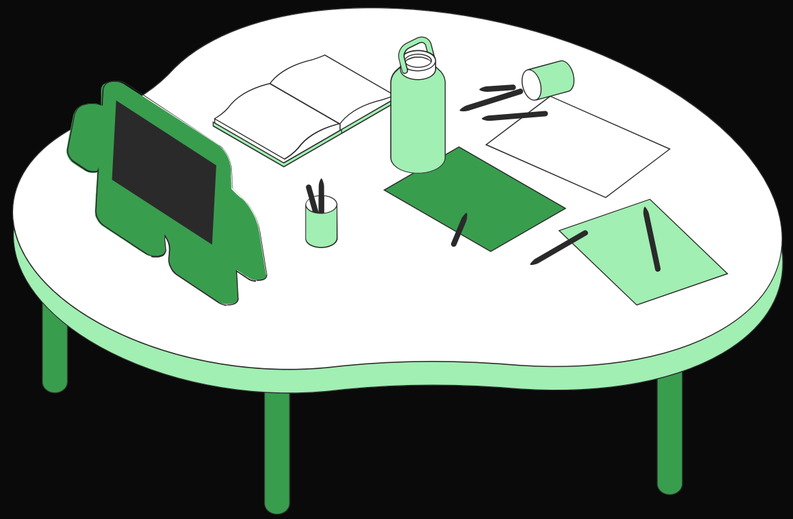
# DIGICERTI

THE DECENTRALIZED
CERTIFICATION

# DESCRIPTION OF THE PROBLEM STATEMENT

Online Blockchain based certificate generation and validation system for government organisation

# CONTENT



# 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

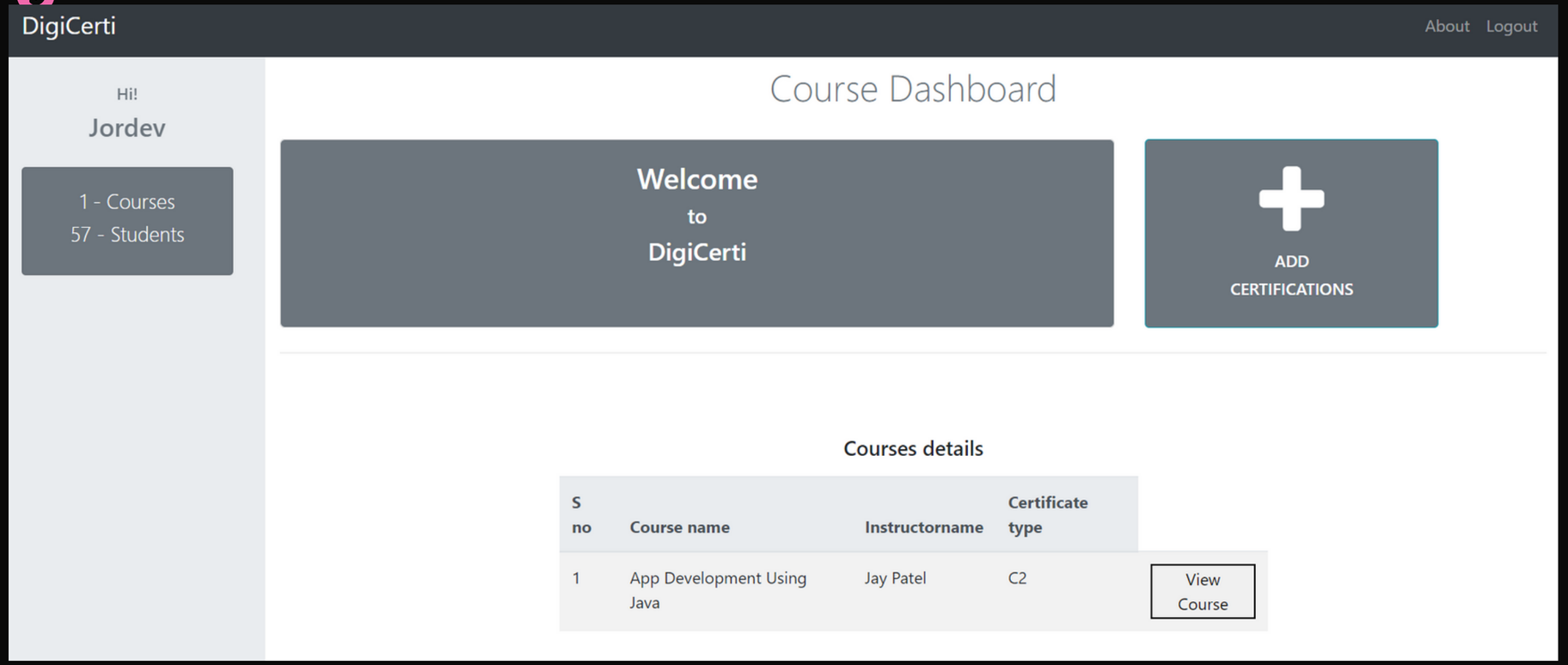
**Authentication**

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.

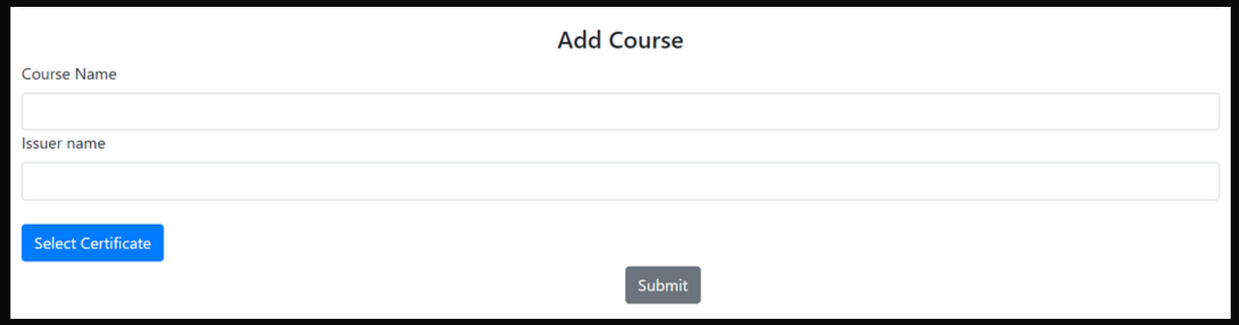
**Contract Management**

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




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



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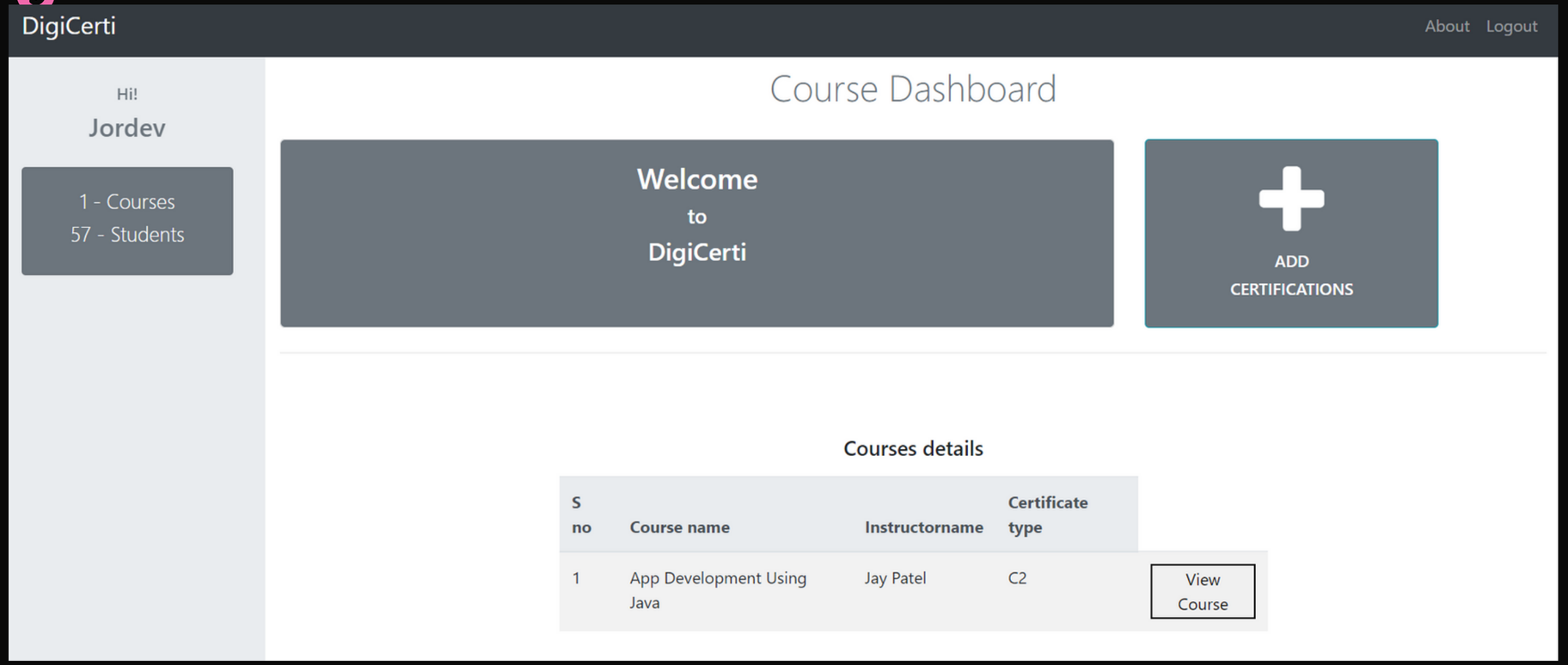


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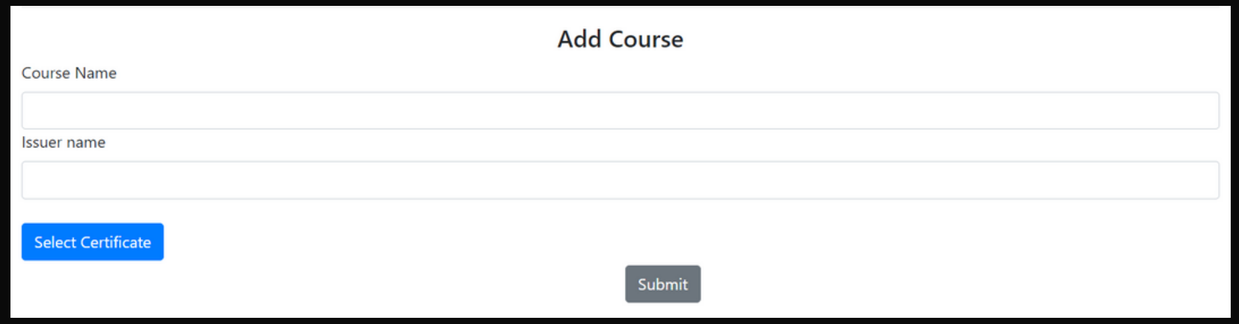

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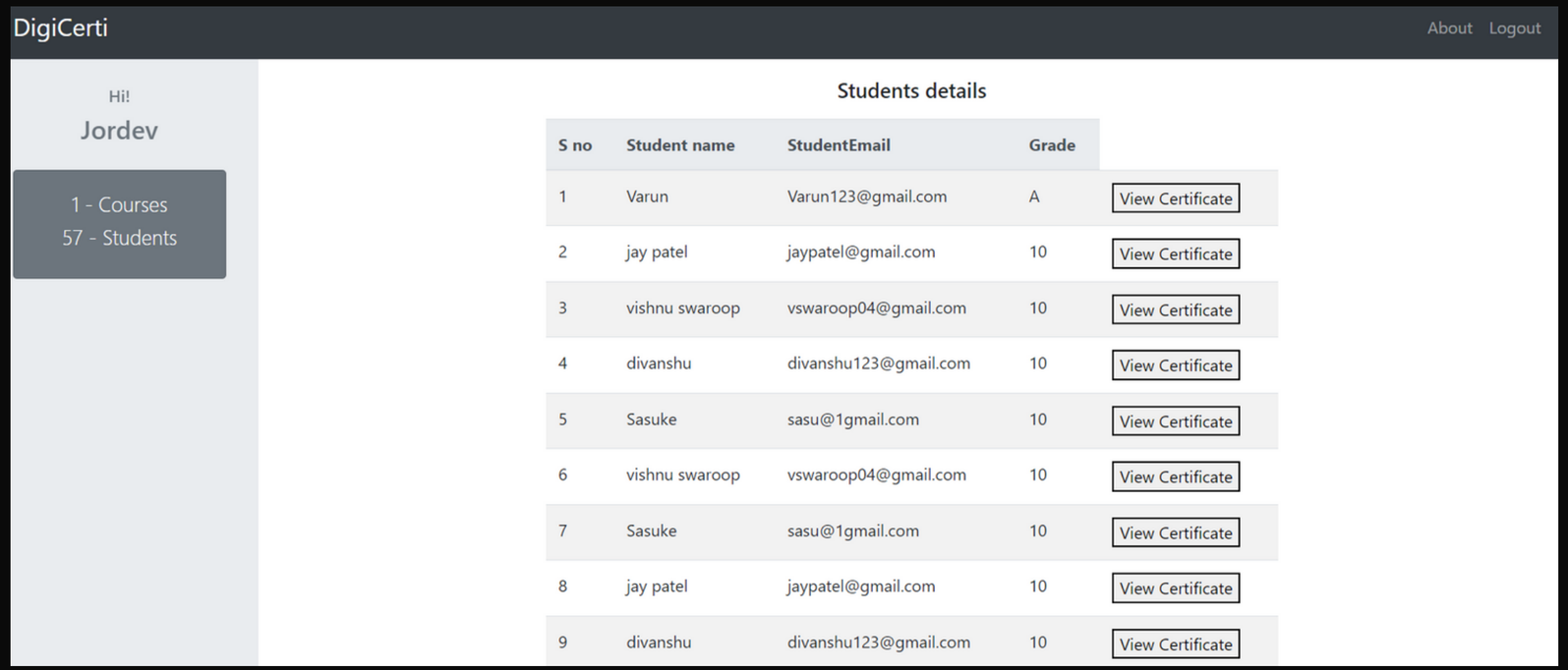
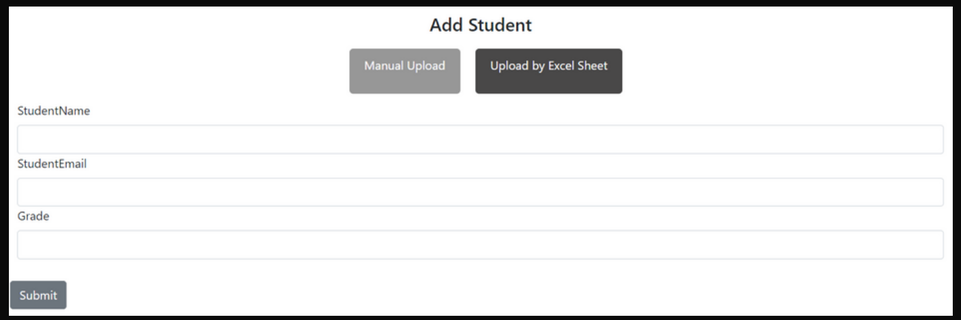
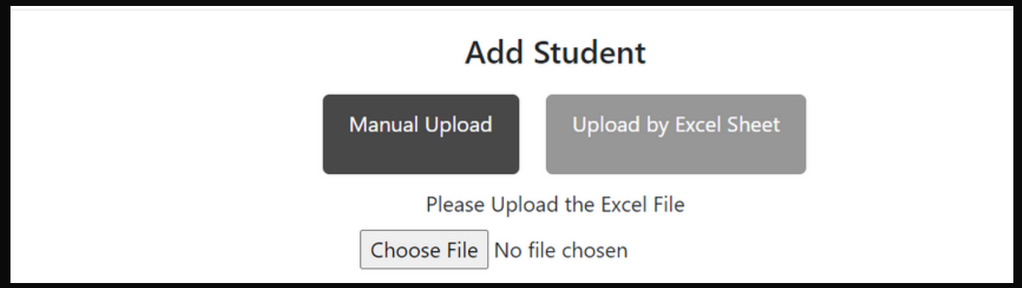



By Clicking on the view course in the course dashboard he can see the students listed for his course

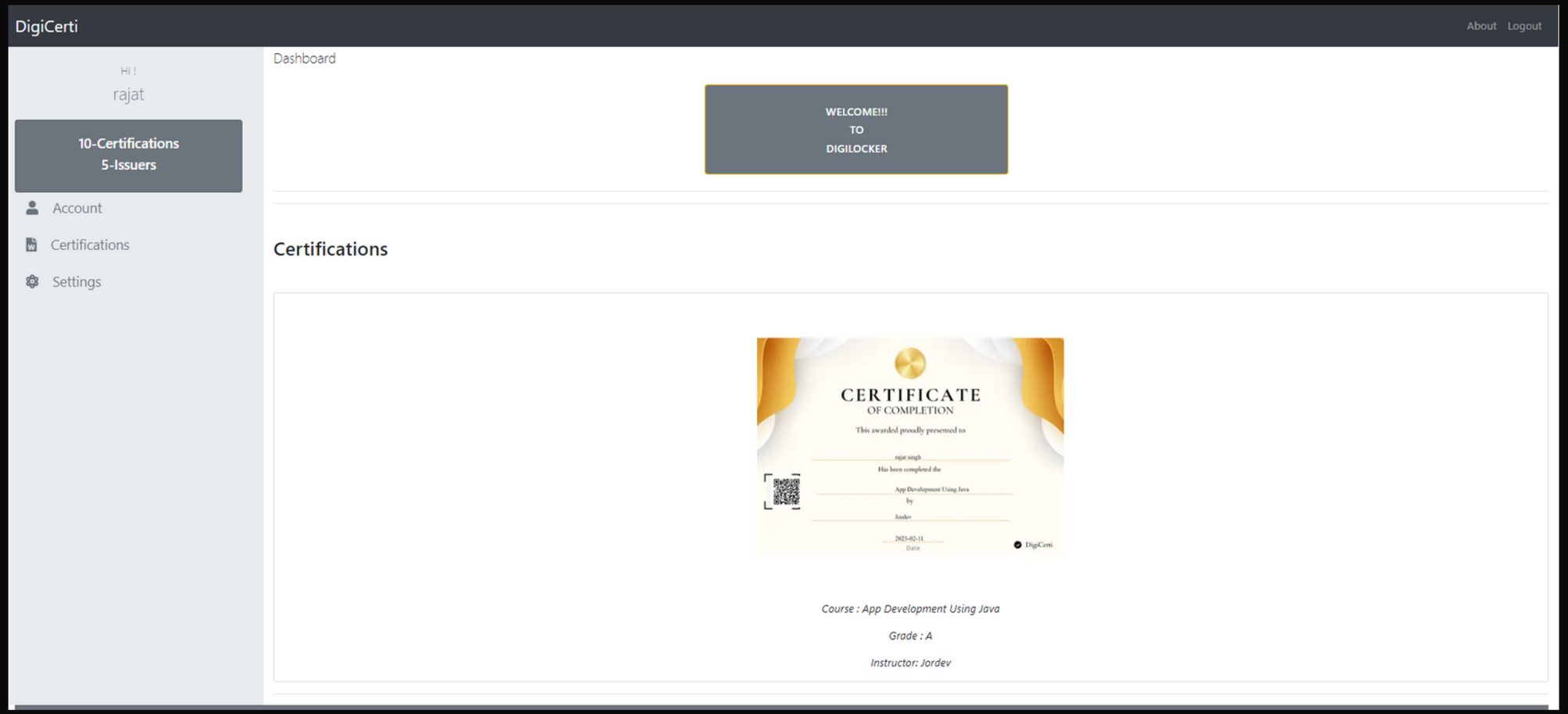



ISSUER CAN ADD STUDENTS MANUALLY OR
HE CAN ADD BY EXCEL/CSV DATA

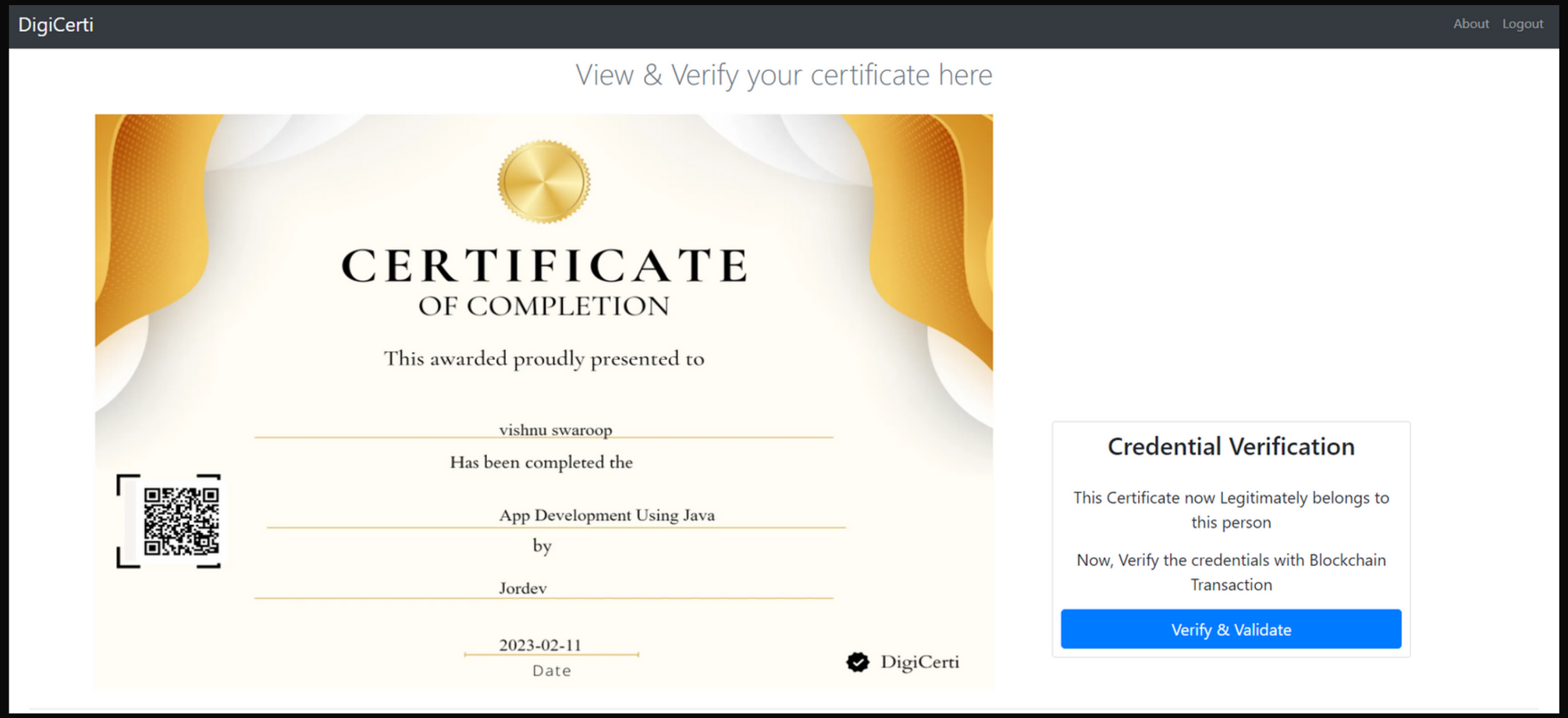
# WORK DONE

User Dashboard



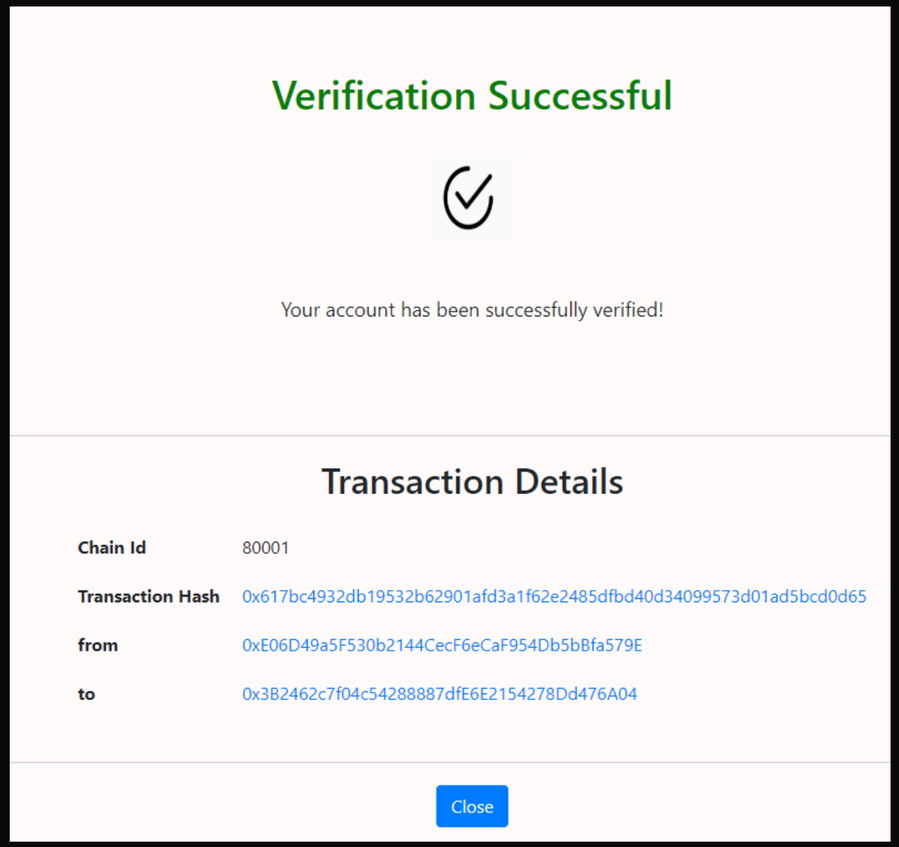

After Issuing the Certificates  User can see his/her certificates in his dashboard

# WORK DONE




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

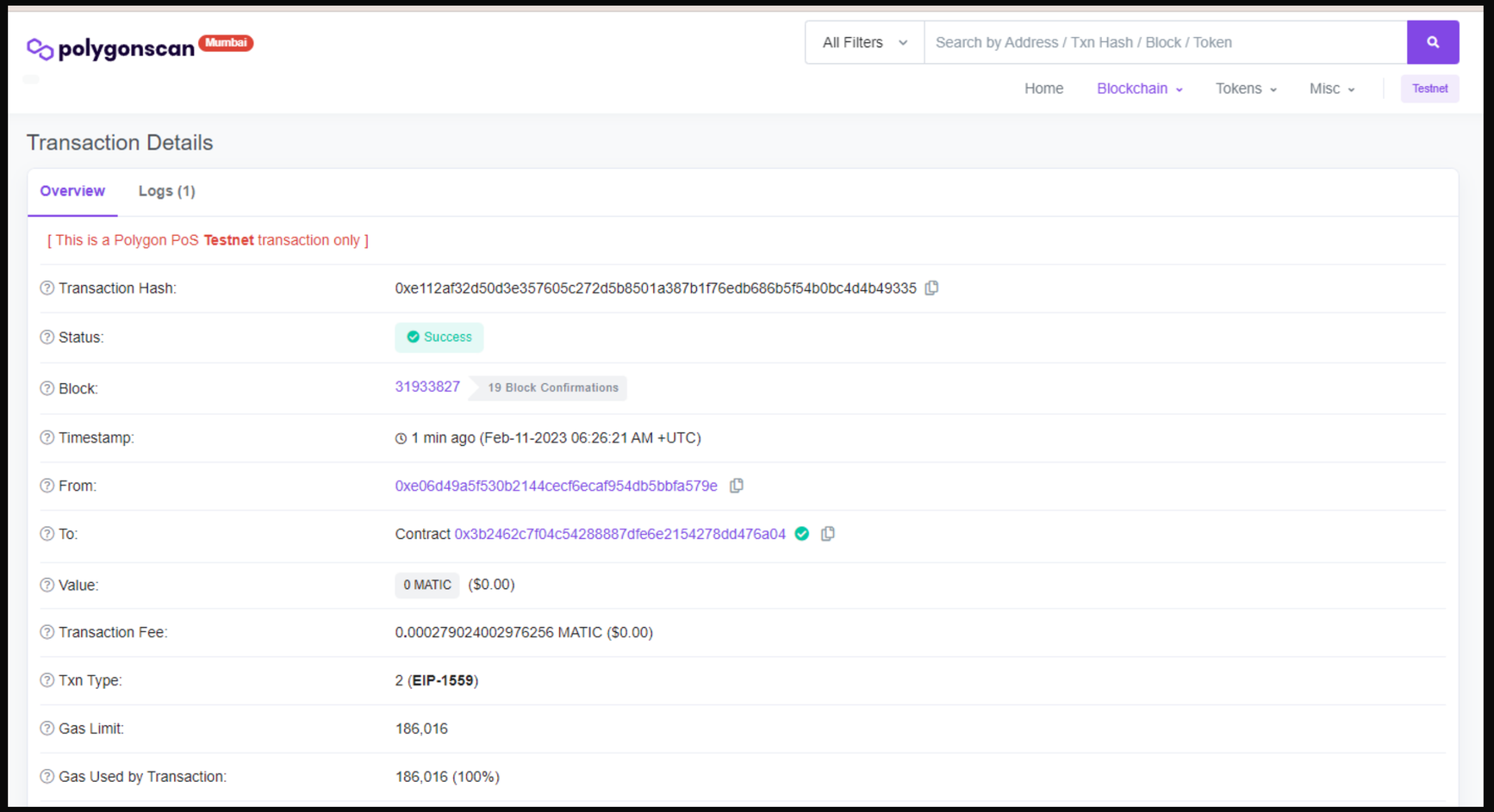
# WORK DONE




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


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

# OUTPUT




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