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THE NATIONAL COLLEGE
Autonomous
Jayanagar, Bangalore-560070

PROJECT REPORT
ON
HYPERLEDGER FABRIC BLOCKCHAIN BASED
FABLAND APPLICATION

BY

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19NCJB421

Under the guidance of

Prof. VARADARAJ.R

FabLand project report submitted in partial fulfilment of the
requirements of

VI Semester BCA, THE NATIONAL COLLEGE JAYANAGAR

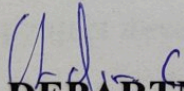


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CERTIFICATE

This is to certify the project report titled "FabLand Application" is a work done by Niveditha(19NCJB421) of THE NATIONAL COLLEGE, Jayanagar, Bengaluru, in partial fulfilment of the requirements of VI Semester BCA during the year 2021-2022.


HEAD OF THE DEPARTMENT


PROJECT GUIDE

Examiners:

Examination Center

Dept. Of Comp. Science
VALUED

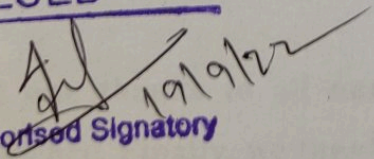
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(1)

2.

(2)


Authorised Signatory

Date of Examination:

ACKNOWLEDGEMENT

FabLand Application is the project of many hands from the team. Our tribute for the successful completion of the project goes to all those who helped through their constant guidance and encouragement. The satisfaction that accompanies the success would be incomplete without thanking the person who made it.

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HYPERLEDGER

Hyperledger (or the Hyperledger project) is an umbrella project of open source blockchains and related tools, started in December 2015 by the Linux Foundation, and has received contributions from IBM, Intel and SAP. Its goal is to support the collaborative development of blockchain-based distributed ledgers. It was renamed Hyperledger Foundation in October 2021.

Hyperledger Fabric

Hyperledger Fabric is a permissioned blockchain infrastructure, originally conceived by IBM and Intel, and Accent, providing a modular architecture with a delineation of roles between the nodes in the infrastructure, execution of Smart Contracts and configurable consensus and membership services. A Fabric Network comprises (i) "Peer nodes" which execute chaincode, access ledger data, endorse transactions and interface with applications; (ii) "Orderer nodes" which ensure the consistency of the blockchain and deliver the endorsed transactions to the peers of the network; and (iii) Membership Service Provider (MSP) which is typically implemented as a Certificate Authority, managing a set of certificates which are used to authenticate member identity and roles.