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THE NATIONAL COLLEGE
Autonomous
Jayanagar, Bangalore-560070

PROJECT REPORT
ON
HYPERLEDGER FABRIC BLOCKCHAIN BASED FABCAR APPLICATION

BY

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Under the guidance of

Prof. VARADARAJ R

FabCar 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 **"FabCar Application"** is a work done by **Vinay Bharadwaj B(19NCJB430) of THE NATIONAL COLLEGE, Jayanagar, Bengaluru,** in partial fulfilment of the requirements of VI Semester BCA during the year 2021-2022.

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PROJECT GUIDE

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ABSTRACT

FabCar is a database of car records stored in the ledger of a Fabric network. We can consider this as a traditional database storing the data: it is like a table, indexed with a Car Identifier (CarID), and the information of Maker, Model, Colour and Owner is recorded for this car.

The data are stored in the world state database inside the ledger. Interaction with the data is through chaincode. FabCar comes with a Chaincode, containing the functions which can interact with the stored data in the ledger. They are for database (ledger) initiation, query and update. The world state is queried or updated only through these chaincode functions, and any update is logged in the blockchain inside the ledger as tamper-resistant record.

ACKNOWLEDGEMENT

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	c) Transfer these program and files from Windows System to the created AWS EC2 Instance using the "FileZilla" software d) Go to "fabcar-network" directory and create Cryptographic based certificates and update the "docker-compose.yaml" file with the relevant CA certificate and save the file e) Create a directory "channel-artifacts" and create genesis.block and channel.tx files under that directory and verify. Covert the "start.sh" file into an executable file f) Go to "fabcar" directory and covert the "startFabCar.sh" and "teardownFabCar.sh" files into executable ones g) Execute the command "npm install" and verify the creation of "node_modules" directory	
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