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**THE NATIONAL COLLEGE**  
**Autonomous Jayanagar, Bangalore-**  
**560070**

**PROJECT REPORT**  
**ON**  
**HYPERLEDGER FABRIC BLOCKCHAIN BASED**  
**FABMOBILE APPLICATION**

**BY**

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**Under the guidance of**  
**Prof. VARADARAJ R**

**FabMobile project report submitted in partial fulfilment of the**  
**requirements of**

**VI Semester BCA, THE NATIONAL COLLEGE JAYANAGAR**

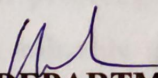


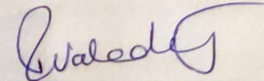
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**CERTIFICATE**

This is to certify the project report titled "**FabMobile Application**" is a work done by **Charan.R(19NCJB454)** of **THE NATIONAL COLLEGE, Jayanagar, Bengaluru**, in partial fulfilment of requirements of VI Semester BCA during the year 2021-2022.

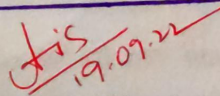
  
**HEAD OF THE DEPARTMENT**

  
**PROJECT GUIDE**

Examiners:

Examination Centre

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2. Examiner (1) 
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Date of Examination:

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## ABSTRACT

FabMobile is a database of Mobile 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 Mobile Identifier (MobileID), and the information of Maker, Model, Colour and Owner is recorded for this Mobile.

The data are stored in the world state database inside the ledger. Interaction with the data is through chaincode. FabMobile 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.

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(Reading individual record or data from the Blockchain)

- 3) Add a new Mobile data and verify that it gets added successfully into the Blockchain (Writing a new record into the blockchain and its verification)
- 4) Change the Owner name of the existing Mobile data and verify (Changing [name] creating new record as no modification of existing record is allowed in Blockchain) the existing data in the blockchain and its verification)
- 5) Modify the Owner name of the existing Mobile data and verify (Modifying the existing data in the blockchain and its verification). Here also a new record is created with new owner Name and the existing record is not getting modified which is one of the main features of Blockchain technology

Note: These verification need to be done both in Command Line Interface (CLI) and also using browser based APP and mobile