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THE NATIONAL COLLEGE

Autonomous

Jayanagar, Bangalore-560070

PROJECT REPORT

ON

ETHEREUM BLOCKCHAIN BASED HOUSES'

PURCHASE SHOP APPLICATION

BY

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Under the guidance of

Prof. VARADARAJ.R

Housess' Purchase Shop project report submitted in partial fulfilment of the
requirements of

VI Semester BCA, THE NATIONAL COLLEGE JAYANAGAR



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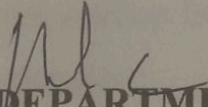
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CERTIFICATE

This is to certify the project report titled “**Houssess’ Purchase Shop Application” Project**” is a work done by **AISHWARYA.S[19NCJB448]**, 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

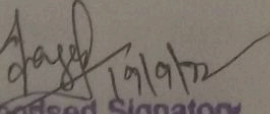
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ABSTRACT

➤ **Why Blockchain**

- It helps in the verification and traceability of multistep transactions needing verification and traceability.
- It can provide secure transactions, reduce compliance costs, and speed up data transfer processing. Blockchain technology can help contract management and audit the origin of a product.

➤ **Importance of Blockchain**

- Immutable
- Secured
- Transparent
- Less time for transactions
- Avoids double spending

The project is to design, develop and verify the Houses' Purchase Shop Application having the following features:

- 1) Display the front-end on the default Browser with available Houses for Purchase in the Shop.
- 2) Purchase a House by clicking on the "Purchase" button.
- 3) Metamask should be able to calculate the transactions fees for storing the purchase transactions in the Ganache Blockchain.
- 4) Ganache should record the purchase transactions and it should be verifiable.
- 5) House once purchased should not have the option of purchasing again.
- 6) Using one Ganache Ethereum Account the Account holder should be able to purchase more than one House.
- 7) Using different Ganache Ethereum accounts, the account holder should be able to purchase Houses and verify the related transactions in Ganache.

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