

Project Title

Blockchain Marketplace

Profile Photo

https://drive.google.com/file/d/1_B_zb6Az7FVM2d1QSeVCBi2L37wlg2K6/view?usp=sharing

Name

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Gitlab link

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Project Description (at least 500 words)

A marketplace is a place where buyers and sellers meet together for the purpose of buying and selling.

A blockchain-based marketplace could be a simple web application that is built on top of the blockchain, where all the transaction happens using cryptocurrency.

In a normal marketplace, the users get interacted through web pages in a browser with the webserver and web server acknowledged to and forth, to the database. Here, components like web servers, databases behave as central servers.

In a blockchain-based marketplace, users connect to web pages through the browser, and web page talks directly to blockchain i.e. it can interact with smart contracts on the blockchain. Also, decentralized marketplaces offer global assets, available from anywhere in the world.

To talk the flow in short, user get interact to web browser. And the web page in the browser get directly interact with smartcontract on the blockchain.

Dependencies that could be used for project:

Ganache - as local blockchain for testing later test network was used

Metamask - as wallet

Solidity - for smart contract

User Interface - suitable frontend libraries (react is used)

Simple works on contract:

Allows someone to list an item in the marketplace.

Anyone can buy by sending cryptocurrencies.

Transferring of ownership

Simply, the application allows users to:

List items for sale.

Other users can purchase it through cryptocurrencies.

During purchase, transferring of ownership

The workflow of the simple project is simply demonstrate on this video.

Link: <https://www.youtube.com/watch?v=cciVaZuPVro>

Note: Further enhancement on the project could be; front end and UI need to be optimized in a standard way,upload files to IPFS using a web application, researching and adding suitable features need further.

Video Demo Link (1-2min long)

<https://www.youtube.com/watch?v=cciVaZuPVro>