**IBRAHIM BASHIR ILYASU**

**A BLOCKCHAIN-BASED DECENTRALIZED MARKETPLACE FOR TRUSTWORTHY TRADE**

A Blockchain-based online marketplace that will be operate on Blockchain technology. It allows traders and investors to trade with each other while eliminating middlemen. No one has to know or trust anyone as everyone will have a copy of exact same data of a certain transaction, and if the trade conditions are not fulfilled or data is altered or corrupted the transaction will not execute. The term of trades will determine by buyers and sellers with no middlemen intervene. It will provide security, transparency, and no need of personal sensitive data. A decentralize payment system for marketplace transaction will not require third party and the payment process will use cryptocurrencies thus eliminating third party provider.

**TARGET AUDIENCE: EVERYONE**

**HOW DO YOU EXPECT TO SOLVE THE PROBLEM IDENTIFIED IN YOUR PORTFOLIO**

By creating decentralized open marketplace. First I need to install all the tools needed for my portfolio. The ethereum Blockchain technology where I need ethereum account and wallet together with ethereum token (ETH) that will be used to pay for transaction fee. The front-end (UI/UX) will be developed using React.js framework (with HTML, CSS and JavaScript). Then code digital smart contracts for back-end which will run on a decentralized Blockchain. Solidity language will be used to code the smart contracts. Truffle will be used to test and deploy the smart contracts. Payments in the market will be I digital currency and the marketplace will also have its own crypto currency.

**SCIENCE, TECHNOLOGY AND PROGRAMMING LANGUAGE BEHIND PORTFOLIO.**

* JavaScript
* HTML
* CSS
* Solidity
* Ganache
* Truffle
* Testrpc
* Web3js
* ERC20
* ERC721
* Github
* ReactJs
* Solidity

**SCHEDULE**

* **Week 1**
  + Setup working environment
  + Start front-end with React
* **Week 2**
  + Continue with front-end
  + Start back-end using smart contract
* **Week 3**
  + Finish front-end
  + Continue back-end
* **Week 4**
  + Finish Back-end
* **Week 5**
  + Start creating Token
* **Week 6**
  + Finish Token and payment method
* **Week 7**
  + Testing the portfolio
  + Project Review
* **Week 8**
  + Upload to Github
  + Submission