

Department of Computer Science & Information Technology
University of Azad Jammu & Kashmir Muzaffarabad

Undergraduate Final Year Project Proposal

Group Information		
Group No.	12	
Group Members	Roll #	Name
	13	Amina Zahid
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	48	Shuja Abrar

Project Title: Securing Supply Chain Network through Blockchain

Project Digest:

Blockchain is a method of storing data that makes it difficult or impossible to alter, hack, or cheat it. Blockchain uses Web3.0 technology and **Web3.0** will emerge from the natural evolution of older-generation web tools combined with cutting-edge technologies such as **AI** and **blockchain**, as well as user interconnection and increased internet usage.

Ethereum is a decentralised, open-source blockchain that supports smart contracts. And Smart contracts are a type of permission-less app that executes automatically when the contract's conditions are met. And these Smart contracts usually used in a dApps (Decentralized applications). Those are applications that run on networks that are not controlled by a single authority. In the context of cryptocurrencies, dApps operate on a public, open-source, decentralized environment.

Many supply chains face challenges that have significant implications in terms of cost, speed, and (product) quality. It aims to increase transparency and drive value at every step of the supply-chain. By leveraging the technology's decentralized cloud database, which records data in non-changeable blocks that can be shared with any number of players, global players like Walmart intend to increase transparency and drive value at every step of the supply chain.

Aim & Scope:

The main aim of this project to achieve transparency with in supply chain network which can be achieved through the use of blockchain technology.

The use of blockchain in the supply chain has the potential to improve supply chain transparency and traceability while at the same lowering administrative expenses and paperwork.

Shuja Abrar:

Group Lead (Name & Signature)

Dr. Rabia Riaz:

Supervisor (Name & Signature)