



KIET Group of Institutions, Delhi-NCR, Ghaziabad
Department of Computer Applications



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Presentation on Blockchain

Submitted by

Name: Abhishek jha

University Roll No.: 1900290140001

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INTRODUCTION

- Blockchain is a decentralized ledger of all transactions across a peer-to-peer network. Using this technology , participants can perform transactions without the need for a central certifying authority.
- Potential applications include fund transfers, settling trades, voting and many more.
- Business networks benefit from connectivity- Connected customers, suppliers, banks, partners.



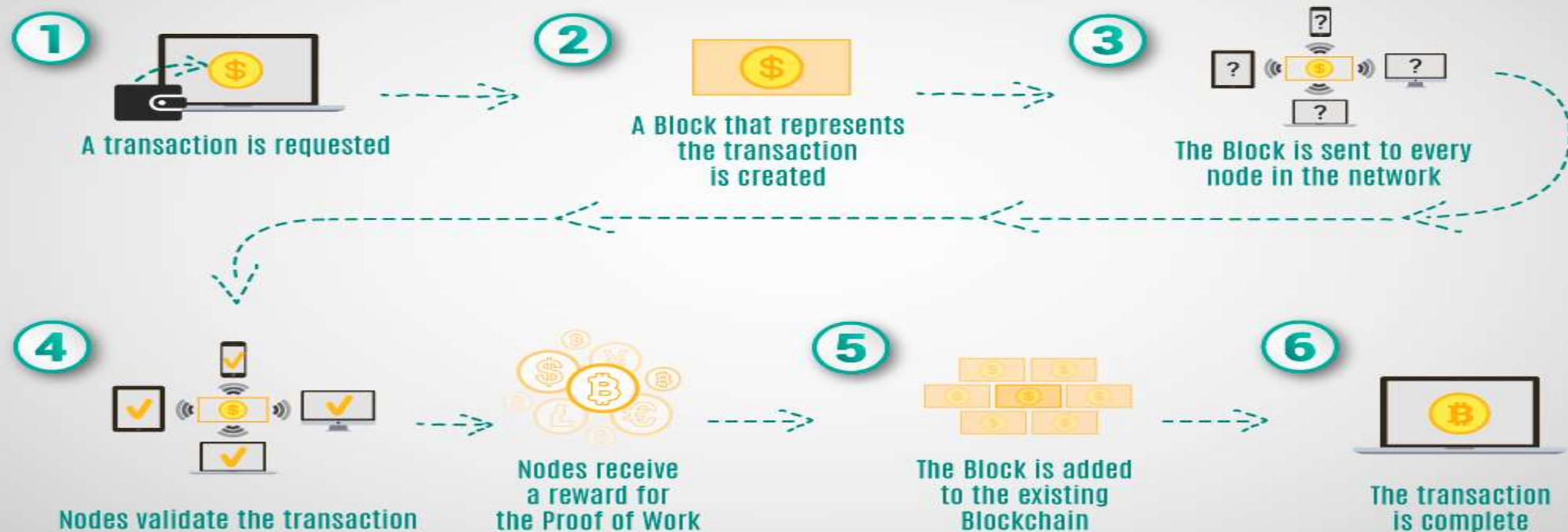
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HOW BLOCKCHAIN WORKS





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BLOCKCHAIN UNDERPINS BITCOIN

1. Is unregulated, censorship-resistant shadow currency.
2. Blockchain ensures Cash Like coin passing
 - Unique
 - Immutable
 - Final
3. Bitcoin is the first blockchain application.



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USES OF BLOCKCHAIN

❖ **BitPesa**

It is a digital foreign exchange and payment platform for frontier markets.

❖ **Storj**

It is a crypto currency and digital payment system and is also a blockchain based digital storage and data retrieval method.

❖ **Riot Blockchain**

Formerly a biotech company called Bioptix, the company rebranded and is now listed on the NASDAQ exchange under ticker symbol RIOT, making it the first purely Blockchain focused public US stock.



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❖ Golem

Golem is a global, open source, decentralized supercomputer that anyone can access. It is made up of the combined power of user's machines, from PCs to entire data centers.

❖ Open Bazaar

It is one of the first marketplace that accepts cryptocurrency for transactions.

❖ Chronicled

The coolest features allow for better supply chain control and management and anti-fraud opportunities to protect brand integrity around the world.



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ADVANTAGES

☐ **Transparency**

Users or developers have the opportunity to modify it as they see fit. This makes blockchain a particularly secure technology.

☐ **Reduced transaction costs**

Blockchain allows peer-to-peer and business-to-business transactions to be completed without the need for a third party. It means they can actually reduce costs to the user or business over time.

☐ **User controlled networks**

Rather than having a third party run the show, users and developers are the ones who get to call the shots.



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☐ **Faster transaction settlements**

Blockchain technology is working 24 hours, meaning blockchain based transactions process considerably more quickly.

☐ **Decentralization**

Blockchain actually allows individual transactions to have their own proof of validity and the authorization to enforce those constraints.



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APPLICATIONS

✓ **Smart contracts**

The projects is a decentralized platform that runs smart contracts applications that run exactly as programmed without any possibility of downtime, censorship, fraud or third party interferences.

✓ **Cloud storage**

Simply using excess hard drive space, users could store the traditional cloud 300 times over.

✓ **Paying Employees**

Payments made via Bitcoin can save both money and time for employers and employees.

✓ **Electronic voting**

Delegated proof of stake (DPOS) is the fastest most efficient most decentralized and most flexible consensus model available.



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CONCLUSION

- Blockchain is a shared, replicated ledger.
- IBM supports an open standards, open source, open governance Blockchain.
- Blockchain can open up business networks by taking out cost, improving efficiencies and increase accessibility.
- Blockchain addresses an exciting and topical set of business challenges, which cross every industry.



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THANK YOU