Towards A Blockchain-based Decentralised Educational Landscape

Dr Niaz Chowdhury

The Open University, United Kingdom

Email: niaz.Chowdhury@open.ac.uk
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Key Roles of an Educational Institution

• Governance
• Teaching
• Awarding Qualifications
• Graduate Support
Current Educational Landscape

- Isolated in operation, teaching and management
- Over-cautious about reputation
- Willing to join lobby group but not sharing degree or prestige
- Provides graduate supports in a discrete manner
Problems

- Problem 1: Educational institutions maintain individual databases of their own to store and hold students’ records including their personal information.
- Problem 2: Educational institutions maintain an old tradition of carrying trust through badges, diplomas and certificates.
- Problem 3: The existing education system is mainly scattered, where educational institutions operate standalone failing to provide continued career support for their students.
Technology

• Blockchain
• Distributed Ledger
• Distributed Storage

• Lined Data
• Solid: SOcial LIinked Data
• Decentralised Architecture

Photo courtesy: University of Oxford
Possible Models

- Pure Blockchain-based Decentralisation
- Distributed Storage-based Decentralisation
- Solid-based Decentralisation
Proposed Landscape

- Blockchain Layer
- Data Layer
- Verification Layer
- Support Layer
Conclusion

• A landscape where institutions can retain their individuality while sharing valuable information to build a decentralised system for providing degree validation, lifelong learning, recruitment assistance and career support to their graduates.

https://qualichain-project.eu/
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Dr Niaz Chowdhury
niaz.chowdhury@open.ac.uk
www.linkedin.com/in/niazchowdhury/