Blockchain Applications in Education: A Case Study in Lifelong Learning

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The QualiChain Project

Decentralised Qualifications' Verification and Management for Learner Empowerment, Education Reengineering and Public Sector Transformation

https://qualichain-project.eu/
Project Pilots

- Lifelong Learning
- Smart Curriculum Design
- Public Sector Staffing
- HR Consultancy and Competency Management Services

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The Lifelong Learning Pilot

Supporting Lifelong Learning

- Transparent & Immutable Accreditation
- Personalised Recommendations
- Personal & Professional Progression

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Lifelong learners: They pursue learning throughout their lifetime, for either personal or professional reasons.

Educational institutions: These are institutions that provide education or training services, either paid ones or free.
Use Case

Smart Badges
- Immutable & instantly verifiable accreditation.
- Offering personalised recommendations about jobs & courses.

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Consultation Workshops

Eliciting requirements from groups of learners, educators, researchers and practitioners in the context of major educational technology conferences.

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Findings

- **Immutable Formal & Informal Qualifications**: ePortfolios should aggregate formal and informal qualifications validated by employers and educational institutions.
- **Lifelong Learning Pathways & Micro-credentials**: Learners should receive guidance in building lifelong learning pathways and acquiring micro-credentials in order to achieve their learning goals.
- **Career Counselling**: Job seekers should be provided with a comprehensive overview of the job market and the latest market trends.
- **Data Ownership and Privacy**: Learners/job seekers should own their digital identity and their ePortfolio data and should be able to control third-party access to it.

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Next Steps

• Moving from the requirements elicitation and specification phase to testing, deployment and evaluation.

• Currently conducting a series of pilot workshops, with a two-fold purpose:
  • Dissemination of the QualiChain framework and platform.
  • Collection of evaluation data via logs, questionnaires and face-to-face feedback from participants.

• In response to the COVID-19 pandemic, all pilot workshops are conducted online. Additional opportunities will be explored to engage stakeholders online, e.g. via open online courses and webinars.
Thank you for your attention!

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