

Education Architecture Special Interest Group Application

Introduction

Education today is an experience that spans multiple, traditional education segments and that is lifelong and lifewide. Digital tools have enabled students to curate personalized learning paths based on their individual interests and needs, earning credentials, badges, and certifications from an increasingly diverse set of learning providers. These tools also have the potential to empower the most traditionally disadvantaged of students by giving them ownership of these achievements and the ability to display these as they pursue their goals in a changing workforce.

Hyperledger's extensibility is an enabling technology tool that can form one part of the foundation of educational transformation. As an anchor of a student-centered record, it can integrate, extend, and enhance, existing institutional applications, processes, and workflows.

The Education Architecture Group will explore and advise on issues related to integration with legacy application infrastructure of learning management systems (LMS), Student Information Systems (SIS), Enterprise Resource Planning (ERP), Integrated Library Systems (ILS), Instructional Apps, Customer Relationship Management Systems (CRM), Human Capital Management (HCM), Cloud Computing models (SaaS, PaaS, IaaS, Hybrid), and self-sovereign digital identity. In addition, this group will investigate the integration of data across the multiple institutional, informal, and workplace learning experiences in the student's lifetime of learning, and whether these can be integrated into a comprehensive record of an individual's knowledge, skills, and ability.

Goals of the Hyperledger Education Architecture Special Interest Group are to:

- Explore and showcase key educational use cases of blockchain
- Foster collaborations between academic institutions, policymakers, vendors, and other education stakeholders
- Create open-source, shareable assets to reduce barriers to entry and adoption for education stakeholders
- Develop and promote the adoption of important interoperability standards in open APIs and protocols for education use cases, including from open standards bodies such as: IMS Global Learning Consortium, IEEE, W3C, PESC, etc.
- Curate or develop professional development or technical assistance resources to support educational practitioners on approaches to applying blockchain technology across various educational use cases

In summary, this group is required because:

- There is a growing interest in educational use cases for blockchains, but currently no hyperledger/blockchain-based community of interest (SIG) that focuses on assets for these stakeholders
- There is an opportunity to capture and focus local, regional, and national Hyperledger and other blockchain initiatives at the intersection of education, employment, and workforce development
- We can support educational institutions to make informed decisions on strategy and implementation of Hyperledger and other blockchain technologies
- Promoting emerging standards are important to promote interoperability and cost savings across schools and systems, and to achieve long term policy goals
- This group will foster an open ecosystem of educational providers, publishers, technology vendors, policymakers, and practitioners

Scope

The community will take initiative to specifically address:

- Identify key use educational applications for Hyperledger and other blockchain technologies
- Showcase case studies and success stories
- Promote open interoperability standards
- Explore and advise on key strategies for Hyperledger integration to critical campus applications
- Promote open standards for distributed and digital credentialing

Scope Not within Charter:

- Classroom technology
- Pedagogy
- Curriculum

Work Products

Output assets from the Special Interest Group may include:

- Use cases
- Case studies and success stories
- Best practices
- Interoperability and compliance Assets
- Face-to-face events and meet-ups
- Podcasts or other social media engagement
- Open-source software requirements
- Creation of a Hyperledger Labs project if the group produces any code

Collaborators

The Education Architecture Special Interest Group is open to interested participants of all skill levels. In particular, this group will be comprised of institutional or individual participants across the education sector, including K12 school, districts, state entities, ministries of education and institutions of higher education. In addition, individual instructors, researchers, students, entrepreneurs, investors, technology vendors, practitioners, artists, librarians, corporations and policymakers are valuable participants.

The Education Architecture Special Interest Group will collaborate with other existing or future Hyperledger and other blockchain groups focused on Education and Training (curriculum focused). The group will also collaborate with other Hyperledger groups as needed to address issues relating to interoperability and compliance assets.

The Education Architecture Special Interest Group will also collaborate and share community development and standards work in credentialing and interoperability with appropriate standards bodies and groups interested in (1) DIDs; (2) data security; and (3) privacy policy. This includes groups working on DLT other than Hyperledger, such as Ethereum or other blockchains.

Other Industry Affiliations may include: We will reach out to other industry groups to determine their interest in participating.

Interested Parties

This list of interested parties has been moved to the group's wiki page as the [EASIG Member page](#).

Proposed Chair

The following individual has volunteered to serve as the initial interim Chair for the group:

Feng Hou - Maryville University