netidee
PROJEKTE

Project Goals

SSI EduWallets architecture builds a de-facto standard that allows any person to identify themselves to compatible learning platforms via a "Wallet"-approach. The EduWallet is intended to provide the ability to store and read a learner's educational history and, if necessary, automatically expand it to include learning progress & achievements within a digital learning environment.

By fusing the concept of "Self-Sovereign Identity" (SSI) based on standards and schemata provided by the education sector & European Commission (ELM/Verifiable Credentials), we enable a 100% data secure solution that meets 5 challenges of future digital infrastructures: (1) Compatibility of learning histories; (2) Uniform storage of competencies & skills; (3) Secure exchange & sharing of personal data; (4) Foundation for personalization of digital learning environments; (5) Interoperability between (learning) platforms.

The project targets organizations which operate a digital learning platform (e.g. LMS) and governmental & non-governmental initiatives which want to meet highest data exchange & data security standards.

Project Results

1	Interim Report	CC BY-SA 4.0	https://www.netidee.at/ssi-eduwallets
2	Final Report	CC BY-SA 4.0	https://www.netidee.at/ssi-eduwallets
3	Developer Documentation	CC BY-SA 4.0	https://www.netidee.at/ssi-eduwallets
4	User Manual	CC BY-SA 4.0	https://www.netidee.at/ssi-eduwallets
5	One Pager	CC BY-SA 4.0	https://www.netidee.at/ssi-eduwallets
6	External Communication	see Final Report	https://www.netidee.at/ssi-eduwallets
7	SW project result part_1: Demo Application	MIT	https://gitlab.com/ssi-edu-wallets/demo-application
8	SW project result part_2: Wallet Proof of Concept	Apache License 2.0	https://gitlab.com/ssi-edu-wallets/wallet-proof-of-concept
9	Verifiable Credentials, QMS & ELM	CC BY-SA 4.0	https://www.netidee.at/ssi-eduwallets
10	ESCO API	CC BY-SA 4.0	https://www.netidee.at/ssi-eduwallets

Practical Usage

The project results are intended to be used in the context of Learning Management Systems (LMS) or educational online platforms or environments (i.e. Learning Ecosystems). Documentations as well as public repositories provide a general introduction on how to set up a wallet architecture based on the concepts of Self-Sovereign Identity (SSI). Our research also contains schemata layouts to be compliant to …

- the European Learning Model (Europass / ELM) via Verifiable Credentials as well as
- the European Self Sovereign Identity Framework (ESSIF) and European Blockchain Service Infrastructure (EBSI).