# ident iT

# BRING YOUR OWN IDENTITY: IMPLEMENT YOUR OWN VAULT

# IDENTIT (CRONOS)

The Cronos Group is known as one of the largest IT service providers in Belgium, known for its extensive ecosystem and commitment to innovation. With more than 9,000 employees, the Cronos Group operates more than 600 competence centers, creating a robust network of expertise in various fields.



In today's digital landscape, (Customer) Identity & Access Management is crucial for setting up a successful digital-first strategy. IdentIT's mission is to deliver groundbreaking (C)IAM solutions that optimize customer experience, strengthen security measures, realize cost efficiencies, increase business flexibility while ensuring compliance with data protection regulations.

# ASSIGNMENT

Self-Sovereign Identity (SSI) is a breakthrough cryptographic concept in digital identity management, giving individuals greater control over their personal data and online identities. SSI enables users to manage their own identities without relying on central authorities, leading to improved privacy, security and efficient interactions in the digital world. This concept shifts control over personal data from organizations to the individuals themselves, with decentralized technologies such as decentralized identifiers (DIDs) and verifiable credentials (VCs) central. This allows people to conduct digital transactions securely and confidentially while maintaining control over their data, but... is the digital world ready for this?

In this internship assignment you will work on creating your own implementation of an SSI. You first investigate the different technological options. You then start working with a programming language or code framework of your choice to successfully complete your implementation. The goal is to ultimately achieve a decentralized system in which a user's identity can be verified in a cryptographic manner. You have complete technological freedom and can choose how you arrive at the final solution.

# METHODOLOGY

Our internship assignment(s) follow the Scrum project methodology to ensure a structured and efficient approach to the (sub)tasks. This is a reflection of IdentIT's project approach. Scrum is a highly adaptable framework that promotes collaboration, adaptability and transparency. Within this framework, we organize the work in time-bound iterations called sprints. Each sprint has a duration of two to three weeks with clear objectives and tasks. At the start of each sprint, the intern(s) and supervisor(s) hold a sprint planning meeting to define the objectives and create a sprint backlog. Weekly stand-up meetings help track progress and identify any obstacles that need to be addressed. At the end of each sprint, a sprint review, with a demo if possible, is held to present progress and collect feedback. The Scrum methodology also helps promote a collaborative and adaptable work environment, so that the best results are achieved within the specified timeframe.

# GOALS

The following delivery is expected at the end of the assignment:

- Analysis of the problem definition
- Study of existing solutions, standards,...
- Presentation of the research results
- Demo of the end-to-end solution
- Documentation of the delivered solution

Do you have an interest in CIAM and a desire to work within a dynamic team? Apply for this exciting opportunity!