Decentralized Identity Management

DID Creation with Ethereum

W3C Decentralized Identifiers (DIDs) are usually the identifier of choice used for SSI ecosystems.

1. What is the main advantage of DIDs compared to blockchain accounts?

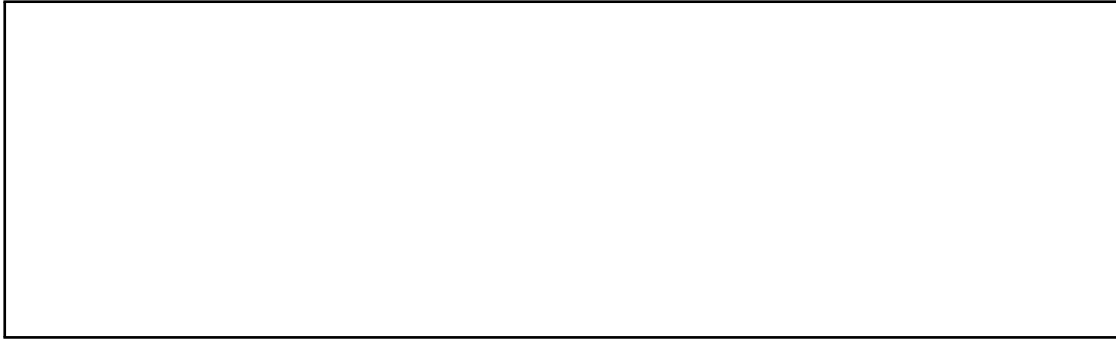2. Briefly explain what a DID resolver is and what it returns.

3. How are DID method standards governed?

4. What are the minimum steps to create a did:ethr? Read the document at: https://github.com/uport- project/ethr-did
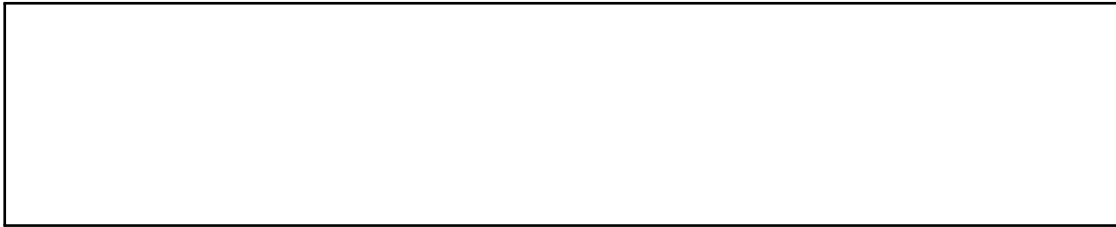
Using DIDs and Verifiable Credentials in Healthcare

Bob, a patient, uses a Decentralized Identifier and Verifiable Credentials to streamline the process of sharing his medical records with healthcare providers.
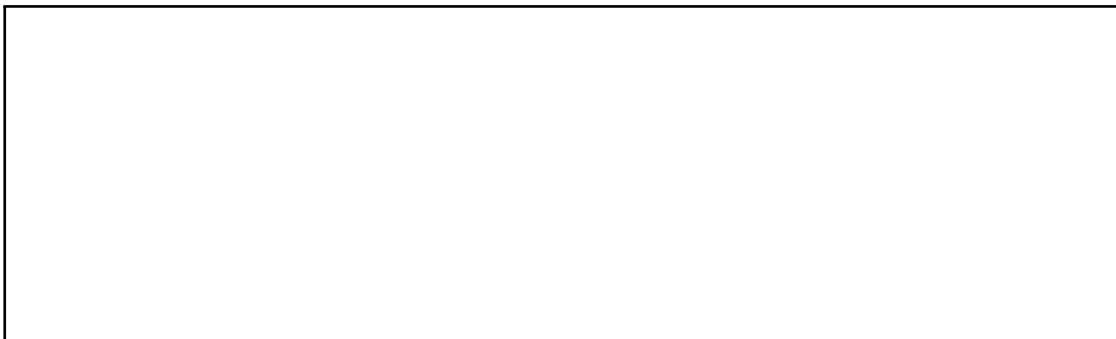
1. Bob wants to use his SSN as his subject identifier in VCs issued for him. Can he do it, and should he do it? Why or why not?
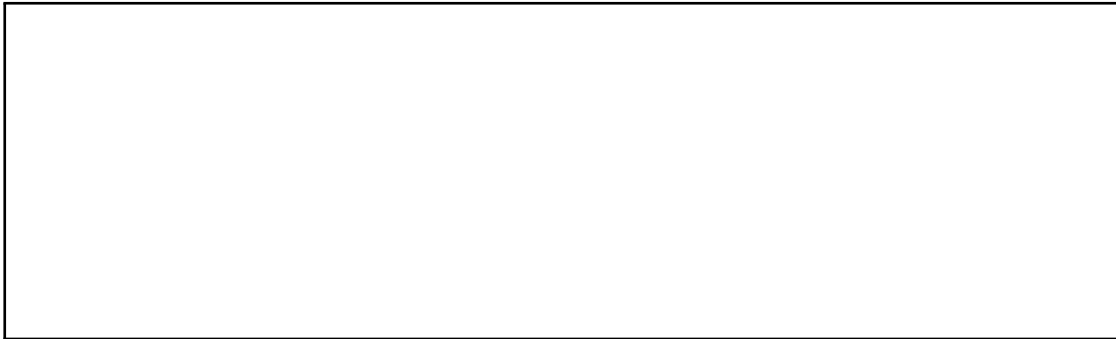
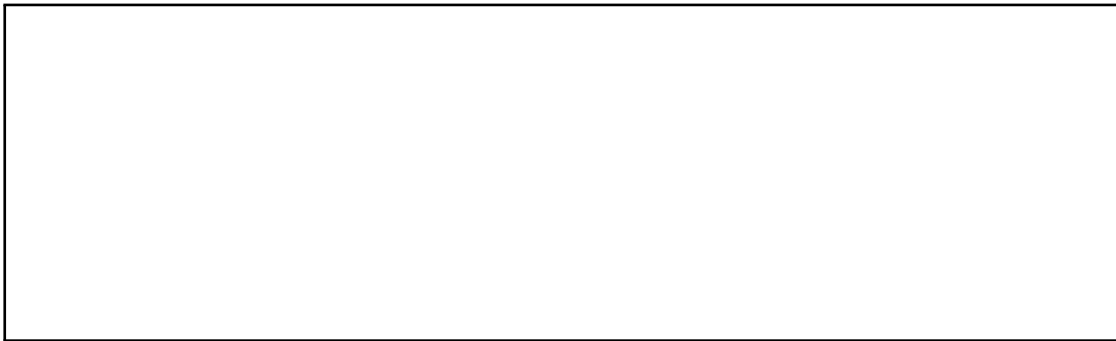2. What 3 parts does a Verifiable Credential consist of?

3. Name the three main roles involved in the lifecycle of a verifiable credential and name the corresponding actors in this specific example.

4. Is this a good use case scenario for VC and DID? Explain your reasoning, highlighting any benefits and drawbacks of using these technologies in this context.

5. SSI is often advertised as "gaining sovereignty about your own data". Does Bob gain that? Argue.

6. SSI is still not widely used. Usability for end users is an issue. Name and briefly explain two concrete problems that wallets have to overcome.