

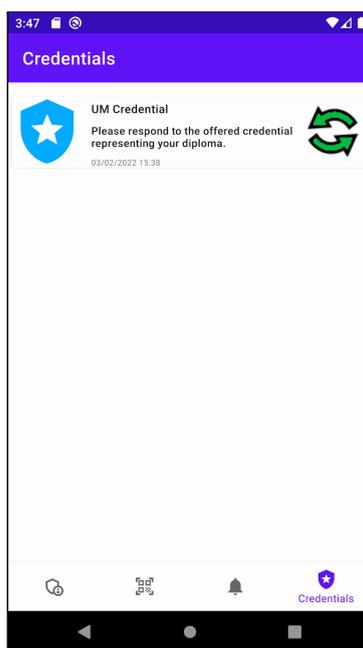
Guidelines for the Diploma Recognition application service at INESC-ID/IST - Portugal (Version 1)

The objective of the service is for students who obtained a degree in an European Union member state to obtain a recognition of the diploma in Portugal, e.g., for the purpose of continuing with their studies in this country. The user has to provide a diploma in the form of a Verifiable Credential (VC), with Decentralized Identifiers (DIDs) based on the European Blockchain Services Infrastructure (EBSI).

Assumptions

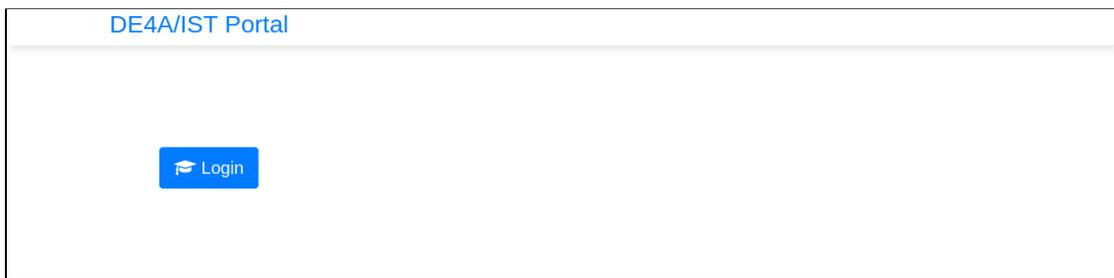
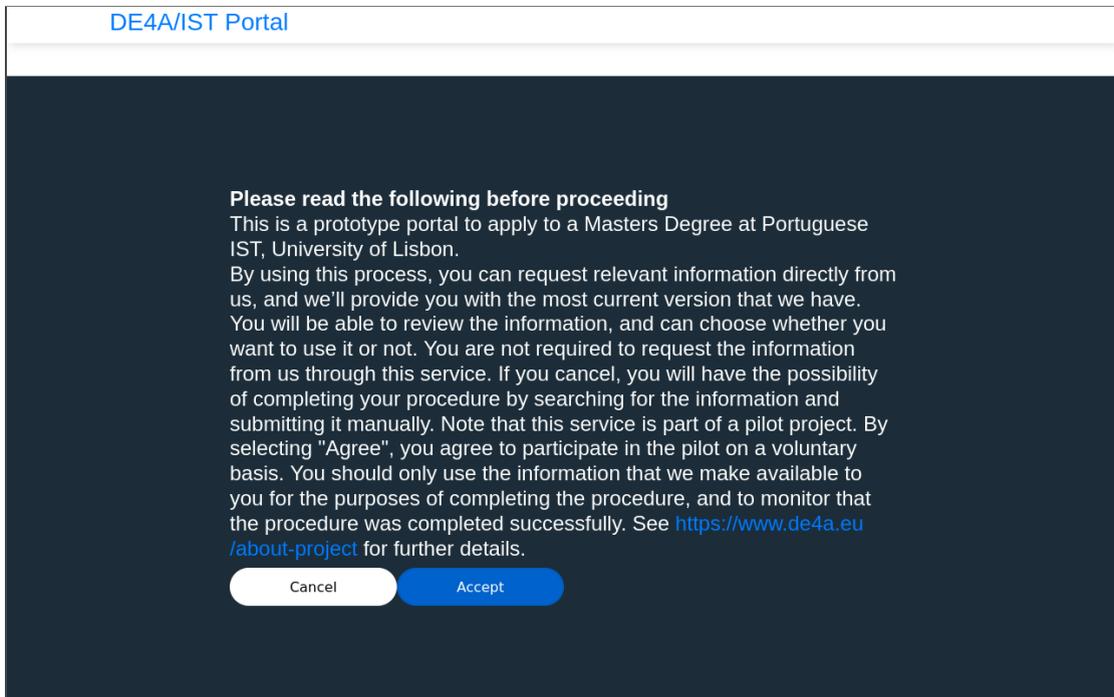
In the guidelines that follow we assume that:

- The user already has the *DE4A mobile application* installed on a mobile device (<https://github.com/de4a-wp5/de4a-mobile-app>);
- The user already has, at least, one VC (a diploma) stored in the *DE4A mobile application*

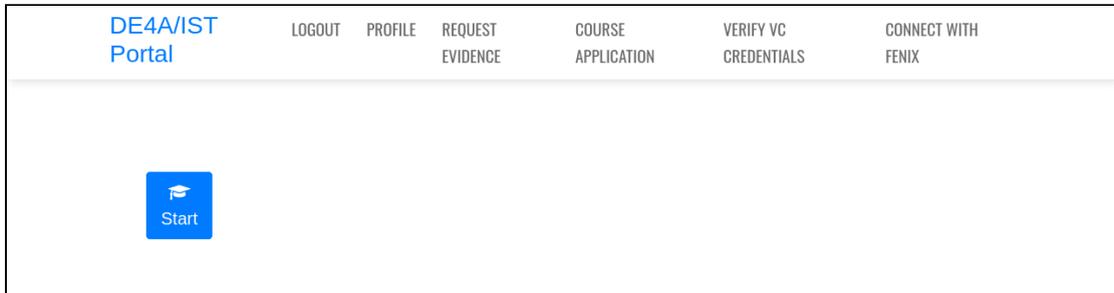


Guidelines

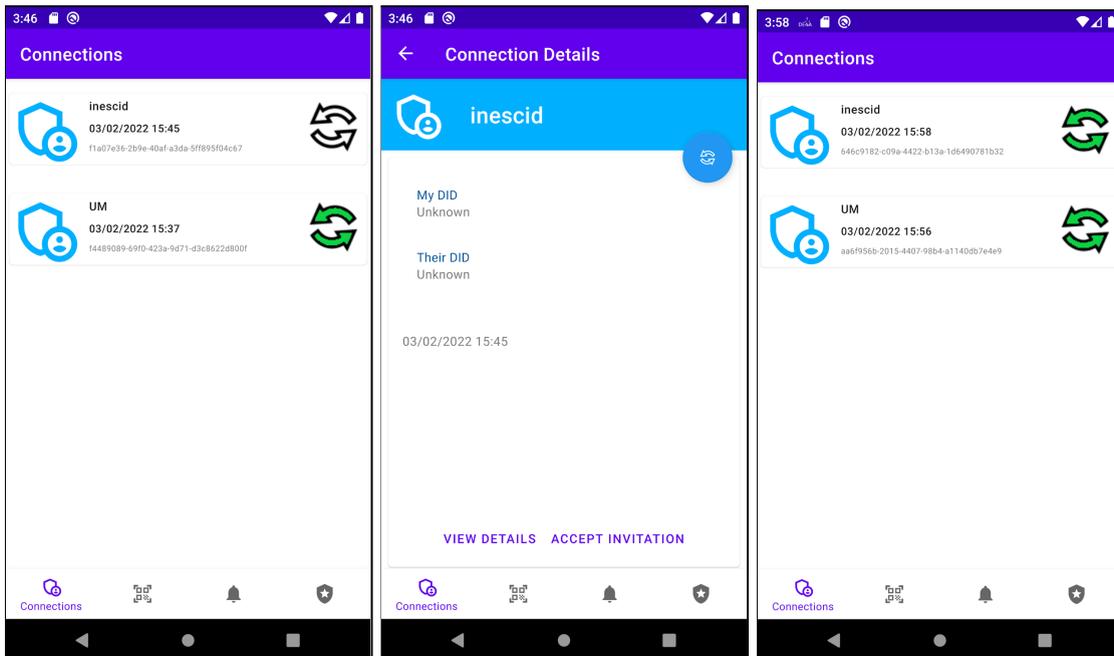
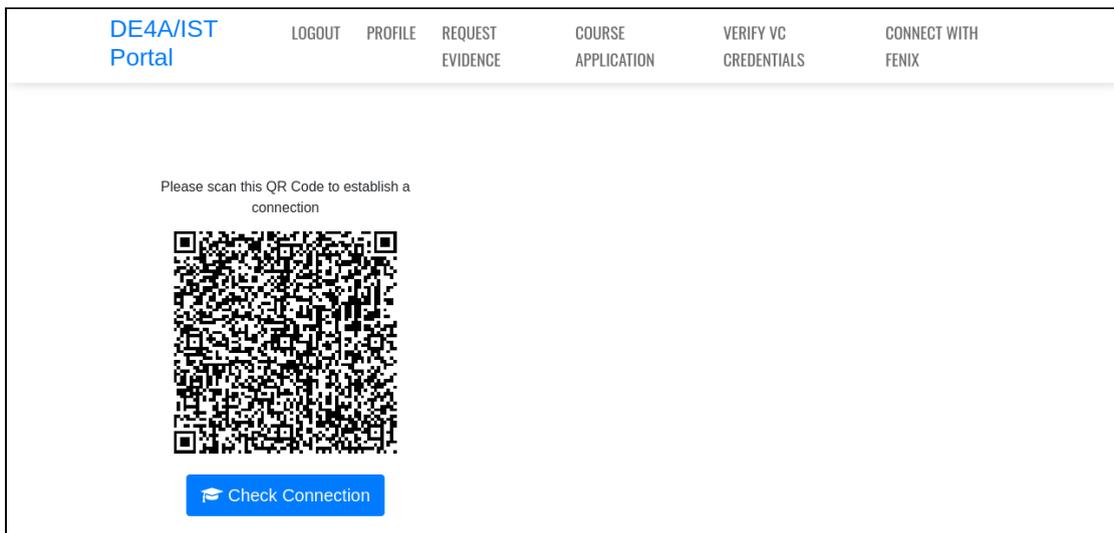
1. The user must login into the INESC-ID PT portal (<https://de4a-portal.gsd.inesc-id.pt:8443>) using eID (citizen card or another eIDAS compatible mechanism). In the end of the process, a **User successfully logged** message appears:



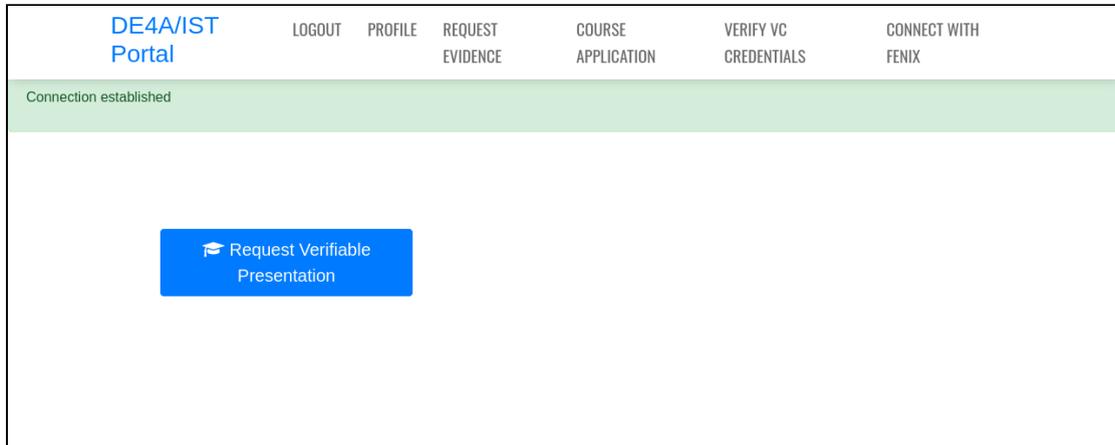
2. After the login, the user goes to the *Verify VC Credentials* tab on the navbar and clicks on the *Start* button:



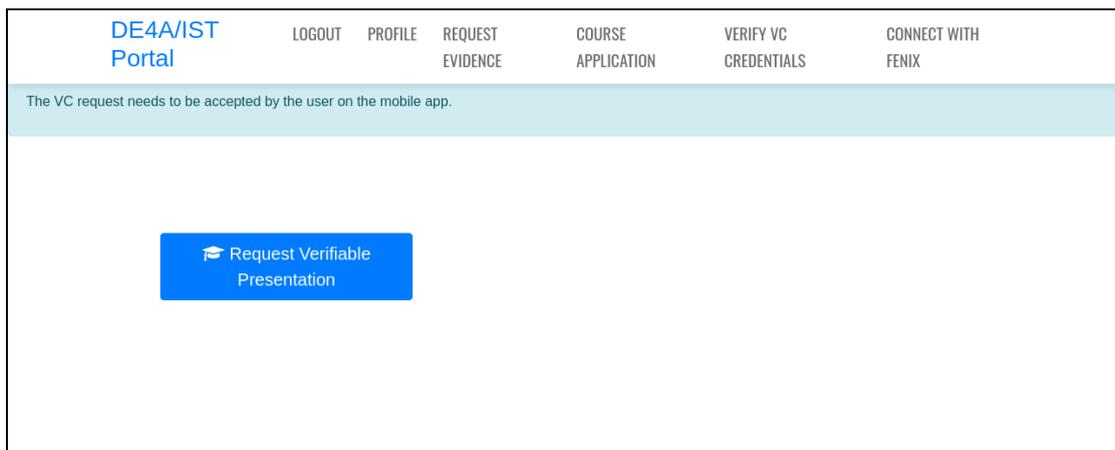
3. The user scans the QRCode that appears on the screen with the DE4A mobile application and accepts the connection on the mobile application by clicking on the *Accept Invitation* button. After accepting the invitation, the user should click on the *Check Connection* button:



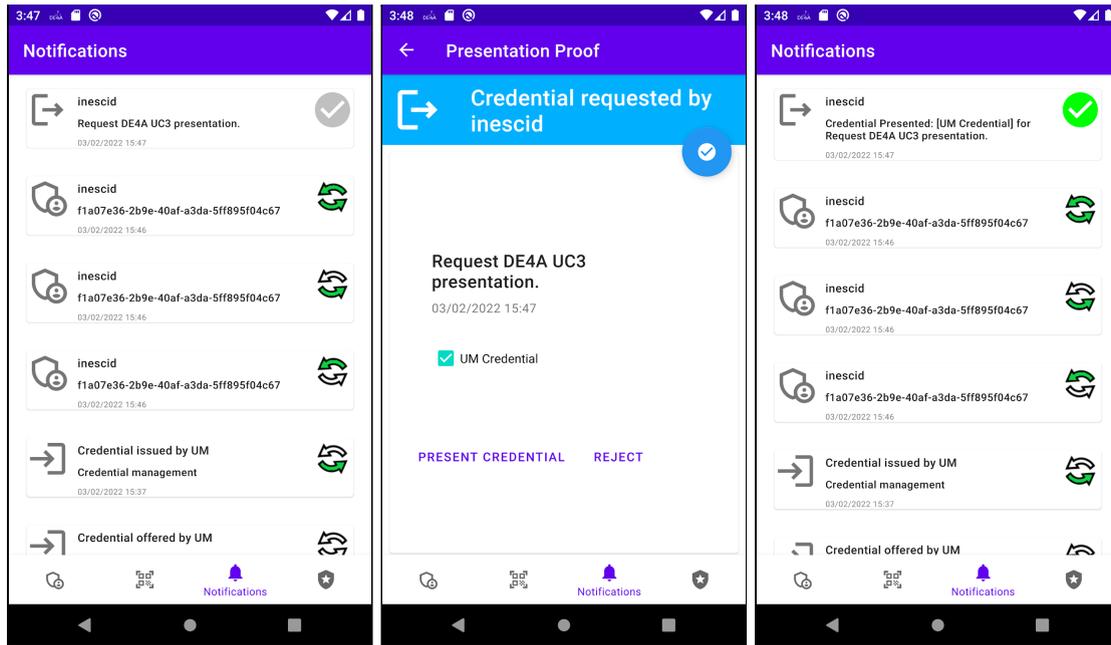
4. After clicking on the *Check Connection* button, a **Connection established** message and the *Request Verifiable Presentation* button appears:



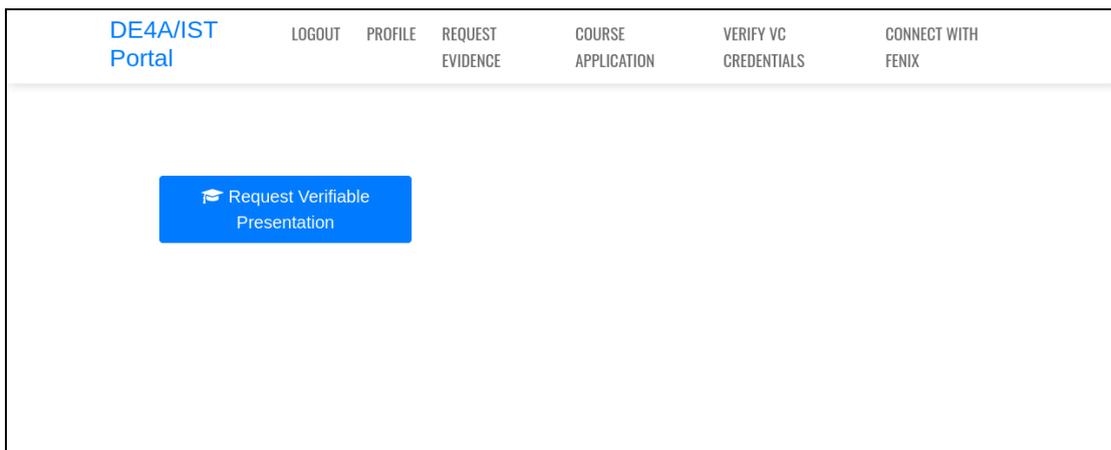
5. Then, the user clicks on the *Request Verifiable Presentation* button. **The VC request needs to be accepted by the user on the mobile app** message appears:



6. The user receives a notification on the mobile application requesting the credentials. The user should accept the request by selecting the credentials to be shared and clicking on the *Present Credential* button (if the user does not want to share the credentials, he can selected the *Reject* button):

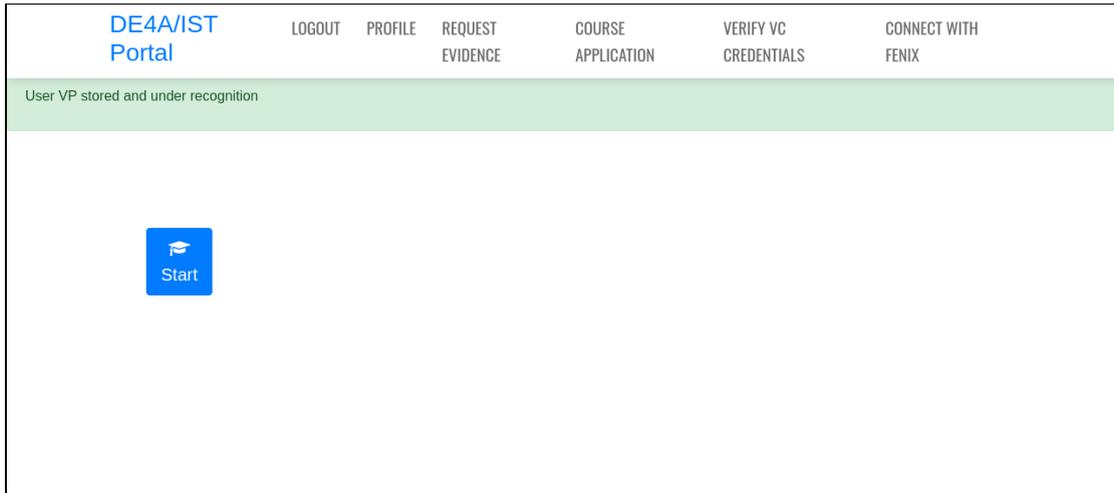


7. After accepting the request on the mobile application, the user has to click again on the *Request Verifiable Presentation* button. For privacy purposes, the VC is never sent to the portal; what is sent is a Verifiable Presentation (VP):

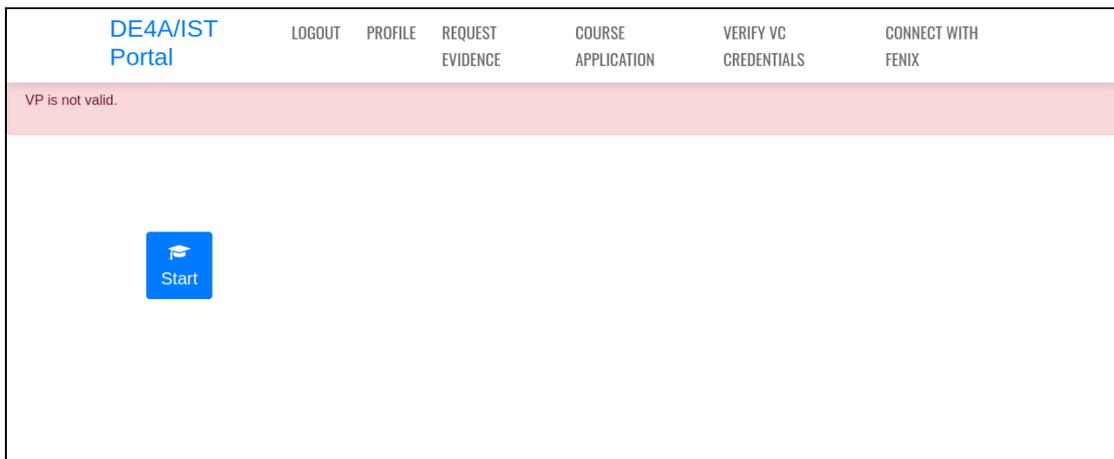


8. Finally, two possible messages can appear:

- a. **VP valid and under recognition** - in this case, the VP is stored and can be accessed on the *Profile* Tab:



- b. **VP is not valid** - in this case, the VP is not stored and the user must insert another VP:



9. The user can check the status of the diploma recognition at any time on the *Profile* tab -> *Verifiable Presentation Status show* button:

The screenshot displays two sections of a web interface. The top section, titled "Verifiable Presentation", contains a blue "Show" button and a large text area filled with a complex JSON-LD object. The bottom section, titled "Verifiable Presentation Status", also features a blue "Show" button and a white box with the text "Under recognition".

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["holder":{"did:peer:1zQmQnQnsiPkwYB1eYnUAEHrCK9yY1LHGwMz26bXrpkUaRC7","type":["VerifiablePresentation","CredentialManagerPresentVv1"],"verifiableCredential":{"credentialSubject":{"awardingProcessReferences":{"awardingProcess":{"awardingLocation":{"@idref":"urn:epass:location":{"@idref":"urn:epass:organisation:1"},"@id":"urn:epass:awardingprocess:1"},"learningOpportunityReferences":{"learningOpportunity":{"learningSchedule":{"#text":"Full time (more then 30 hours)","@lang":"en","@content-type":"text/plain"},"targetFrameworkName":{"text":{"#text":"Europass Standard Learning Schedule","@targetFrameworkUrl":"http://publications.europa.eu/resource/authority/learning-schedule"},"id":"urn:epass:learningopportunity:1"},"learningOpportunity":{"duration":{"#duration":"P2Y"},"ISCEDCode":{"code":{"#code":"123"},"@id":"urn:epass:qualification:1"},"title":{"text":{"#text":"Mestrado em Engenharia":{"id":"urn:epass:organisation:1"},"preferredName":{"text":{"#text":"Instituto Superior Tcnico","@lang":"pt","@content-type":"text/html"}}},"locationReference":{"text/html"},"@id":"urn:epass:location:1"},"spatialCode":{"@uri":"http://publications.europa.eu/resource/authority/vcountry/VPT","targetNameAuthority List","@lang":"en","@content-type":"text/plain"},"@targetNotation":"PT","@targetFrameworkUrl":"http://publications.europa.eu/resource/authority/learning-opportunity":{"@idref":"urn:epass:qualification:1"},"associatedLearningOpportunity":{"@idref":"urn:epass:assessment:1"},"@id":"urn:epass:learningAchievement:1"},"title":{"text":{"#text":"Mestrado em Engenharia Informtica e de Computadores"},"currentFamilyName":"Alves","currentGivenName":"Alice","assessmentReferences":{"assessment":{"issuedDate":{"dateTime":{"#text":"2021-01-31T00:00:00"},"@lang":"pt","@content-type":"text/html"}}},"issuanceDate":"2021-01-31T00:00:00","created":"2022-02-03T15:56:11.009102964Z","jws":{"eyJhbGciOiJIUzI1NiIsInR5cCI6IkpzZW50L3VudC91b3R5bGUyY01119..famVDTQRly3IjdhjG0A Dch9bpGts2omj2sOU6DgP0hIQMaHQekK_O0HLH6QDma4qCg"},"proofPurpose":"assertionMethod","type":"Ed25519Signature2018","verificationMethod":{"VerifiableCredential","UniversityDegreeCredential"},"@context":["https://www.w3.org/2018/credentials/v1","https://www.w3.org/2018/credentials/v1"]}}
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