



Project::

STUDY CONTROL SYSTEM FOR UNIVERSITIES DIPLOMADA#1100266 MILESTONE 2 COMPLIANCE REPORT Test report for each API Endpoint

Synopsis

This document frames the internal functions of the web3 component of the DiplomADA system. These functions cover the actions of: - Connection to the portfolio. - Registration payment. - Cancellation of registration. - Registration of Title and Certified Notes - Certification of Academic and Administrative Compliance - Cancellation of Registered Title - Cancellation of Registered Certified Notes - Discreditation of Academic or Administrative Compliance - Issuance of the DiplomADA. - Cancellation of the DiplomADA.

Features

1. Connection to wallet

connect_wallet

Make the connection with the wallet API via Lucid+CiP30.

Parameters: - portfolio_name: string -> Unique identifier of the student in the system. - config: object -> Object with configure parameters, we can read which network will be used (mainnet, preview, preprod) and which Blockfrost ProjectID.

Results: API object based on lucid library connected to the wallet by CiP30.

2. Registration

registration_payment

Making the student's registration payment to the system account. Creation of the NFT proof of registration.

Parameters: - student_id: string -> Unique identifier of the student in the system. - config: object -> Object with general system configuration parameters.

Results: - ok, txld: string -> OK status and hash of the transaction on the blockchain. - error, error msg: error -> Error for error capture and management.

cancel registration

Return payment, less possible penalty, based on administrative variables.

Parameters: - student_id: string -> Unique identifier of the student in the system. - config: object -> Object with general system configuration parameters, we can obtain the penalty. - ac_constancia_inscripcion: string -> AssetClass of the NFT of the registration certificate.

Results: - ok, txld: string -> OK status and hash of the transaction on the blockchain. - error, error msg: error -> Error for error capture and management.

2. Registration of Title and Certified Notes

title_registration

Creates the NFT that represents the registered title, recording related data, such as the URL of the document in the metadata (cip-25).

Parameters: - student_id: string -> Unique identifier of the student in the system. - config: object -> Object with general system configuration parameters. - title : object -> Object with title information to be recorded, including the hash of the document.

Results: - ok, txld: any -> OK status and hash of the transaction in the blockchain. - error, error_msg: error -> Error for error capture and management.

certified notes registration

Creates the NFT that represents the certified notes, recording related data, such as the URL of the document in the metadata (cip-25).

Parameters: - student_id: string -> Unique identifier of the student in the system. - config: object -> Object with general system configuration parameters. - certified_notes : object -> Object with information about the certified notes, including the hash of the document.

Results: - ok, txld: any -> OK status and hash of the transaction in the blockchain. - error, error msg: error -> Error for error capture and management.

cancellation registration title

Destruction of the NFT that allows the title registry to be authenticated.

Parameters: - student_id: string -> Unique identifier of the student in the system. - confign: object -> Object with general system configuration parameters. - ac_titulo_registrado: string -> AssetClass of the NFT of the registered title.

Results: - ok, txld: any -> OK status and hash of the transaction in the blockchain. - error, error_msg: error -> Error for error capture and management.

cancellation certified notes

Performs the destruction of the NFT that allows the registration of the certified notes to be authenticated.

Parameters: - student_id: string -> Unique identifier of the student in the system. - confign: object -> Object with general system configuration parameters. - ac_notas_certificados: string -> AssetClass of the NFT of the certified notes.

Results: - ok, txld: any -> OK status and hash of the transaction in the blockchain. - error, error msg: error -> Error for error capture and management.

3. Compliance with Academic and Administrative requirements

compliance_certification

Create the compliance certification NFT. Some data will be recorded in the metadata (cip-25)

Parameters: - student_id: string -> Unique identifier of the student in the system. - config: object -> Object with general system configuration parameters. - compliance_data: object -> Data on compliance with academic and administrative requirements.

Results: - ok, txld: any -> OK status and hash of the transaction in the blockchain. - error, error_msg: error -> Error for error capture and management.

discredit compliance

Performs the destruction of the NFT that allows the authentication of the compliance certification.

Parameters: - student_id: string -> Unique identifier of the student in the system. - config: object -> Object with general system configuration parameters. - ac_certificacion_cumplimiento: string -> AssetClass of the NFT of the compliance certifications.

Results: - ok, txld: any -> OK status and hash of the transaction in the blockchain. - error, error msg: error -> Error for error capture and management.

4. Issuance of DiplomADA

diploma_issue

Create the NFT of the diploma (diplomADA).

Parameters: - student_id: string -> Unique identifier of the student in the system. - config: object -> Object with general system configuration parameters. - ac_certificacion_cumplimiento: string -> AssetClass of the NFT of the compliance certifications.

Results: - ok, txId: any -> OK status and hash of the transaction in the blockchain. - error, error_msg: error -> Error for error capture and management.

diploma cancellation

Retrieves all rewards for a specific campaign.

Parameters: - student_id: string -> Unique identifier of the student in the system. - confign: object -> Object with general system configuration parameters. - ac_diplomada : string -> AssetClass of the NFT of the diploma (diplomADA).

Results: - ok, txld: any -> OK status and hash of the transaction in the blockchain. - error, error_msg: error -> Error for error capture and management.

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