

## Sistema de Control de Estudio Diplomada

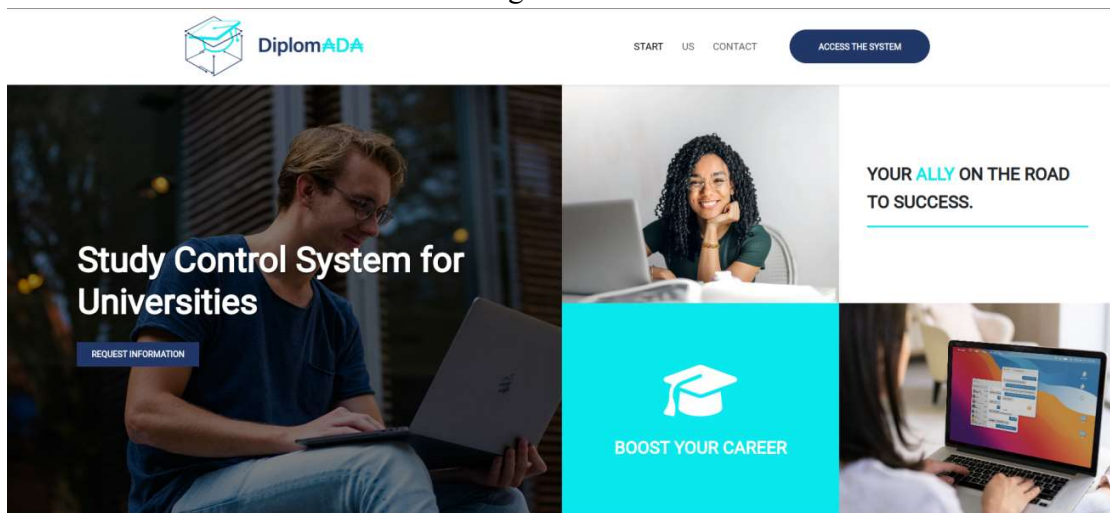


Diplomada is a Study Control system designed for the registration, automation and control of administrative processes that allows interactions with the Cardano node network. Creating NFTs and making records in the blockchain. This provides a level of reliability and security when maintaining the integrity of the data for verification and validation.

To show the operation of this tool, we designed this guide that will provide us with more detailed information on how the system interacts, what its main functionalities are.

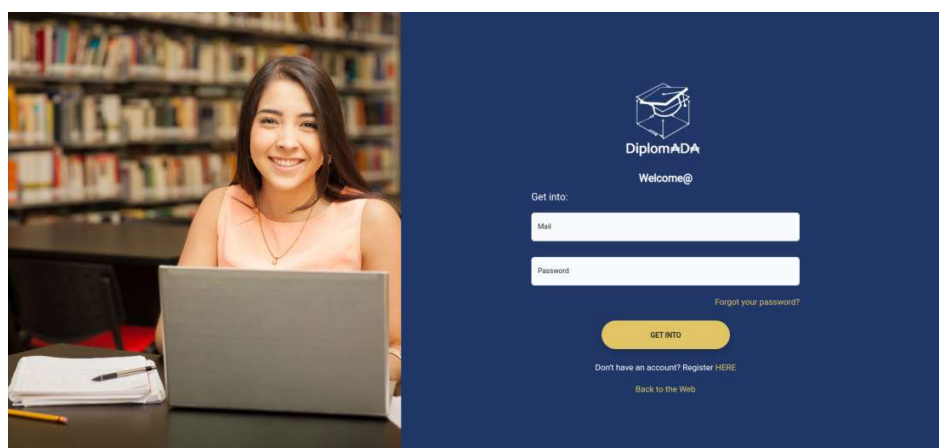
To do this, we must enter the main page of Diplomada, which provides us with information about the system, the foundation that promotes and dictates the academic content (FUNINTEC) and the allies that work together with the foundation to carry out this project.

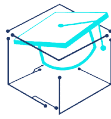
Image N.º1



By pressing the “Access the system” button, we will enter an interface where we can access the application through an authentication process. If we are not registered, we can enter as applicants in the “Register Here” section to enter our data and register in the system.

Image N.º2





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Image N.º3

When registering in the system, we enter with the applicant profile, to choose to enroll in one of the courses or diplomas that the foundation offers in its academic training plans.

Once authenticated in the system, the first process to carry out is to complete the registration and proceed to create the NFTs of the title and certified grades (a process that is mandatory to enroll in a diploma). We can see this process in the “Upload Documents” option.

Image N.º4

At this point, applicants upload the documents corresponding to their degrees and certified grades.

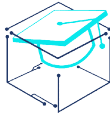


Image N.º 5

**Cargar Documentos**  
Cargar Documentos

Título Universitario:

Notas Certificadas:

**Guardar**

Solo se permiten archivos con un máximo de 2MB en formato pdf.

At this point the files are uploaded to the system for verification, this process is carried out by an analyst within the system, verification is a mandatory process to determine the authenticity of the files before creating the NFTs and registering them on the blockchain.

When uploading the files, the analyst must enter the system so that he can perform the analysis and approve or reject the documents.

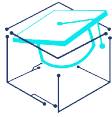
Image N.º 6

**Consulta de Documentos**  
Consulta de Documentos

FILTROS

ID	Nombre	Cédula	Sexo	Correo	Título	Notas	Acciones
3	Orestes Gutierrez	18814102	masculino	orestem20@gmail.com	<a href="#">Ver Título</a>	<a href="#">Ver Notas</a>	✓ ✕
2	GONZALO BALCAZAR	00006666	masculino	helceceinona-7141@yopmail.com	<a href="#">Ver Título</a>	<a href="#">Ver Notas</a>	✓ ✕
1	BYRON CEVALLOS	00004444	femenino	xalozebreddau1679@yopmail.com	<a href="#">Ver Título</a>	<a href="#">Ver Notas</a>	✓ ✕

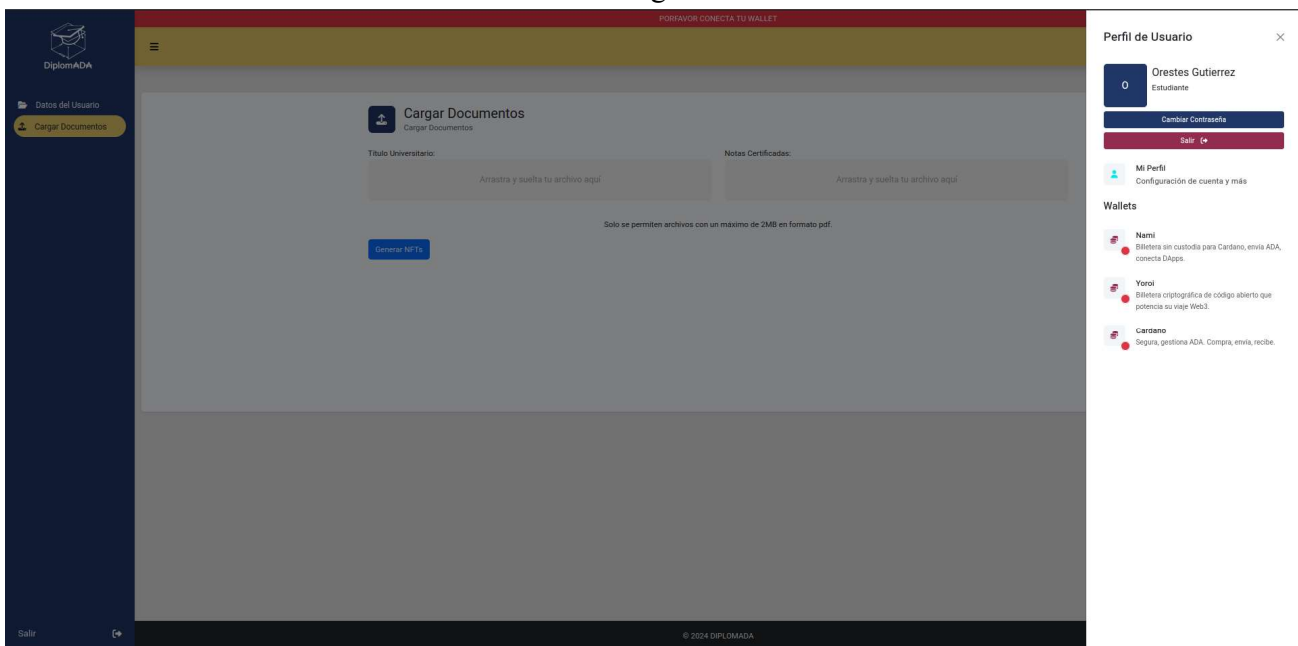
3 Registros encontrados



At this point, the analyst verifies the documents by clicking on the links shown in the list. The analyst then indicates whether the documents are legitimate by clicking the check button. If not, they click the “X” to reject the documents.

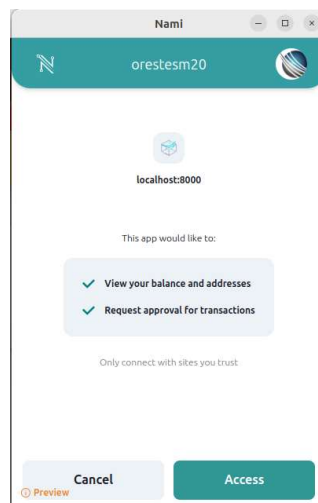
Once the documents have been verified and approved, the student can enter the system to create the NFTs of the titles and grades. To do this, they must connect the wallet to the application.

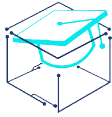
Image N.º 7



For them we display the menu that is on the right side of the screen and click on the “Nami” option, this will link the web application with the wallet to be able to make transactions.

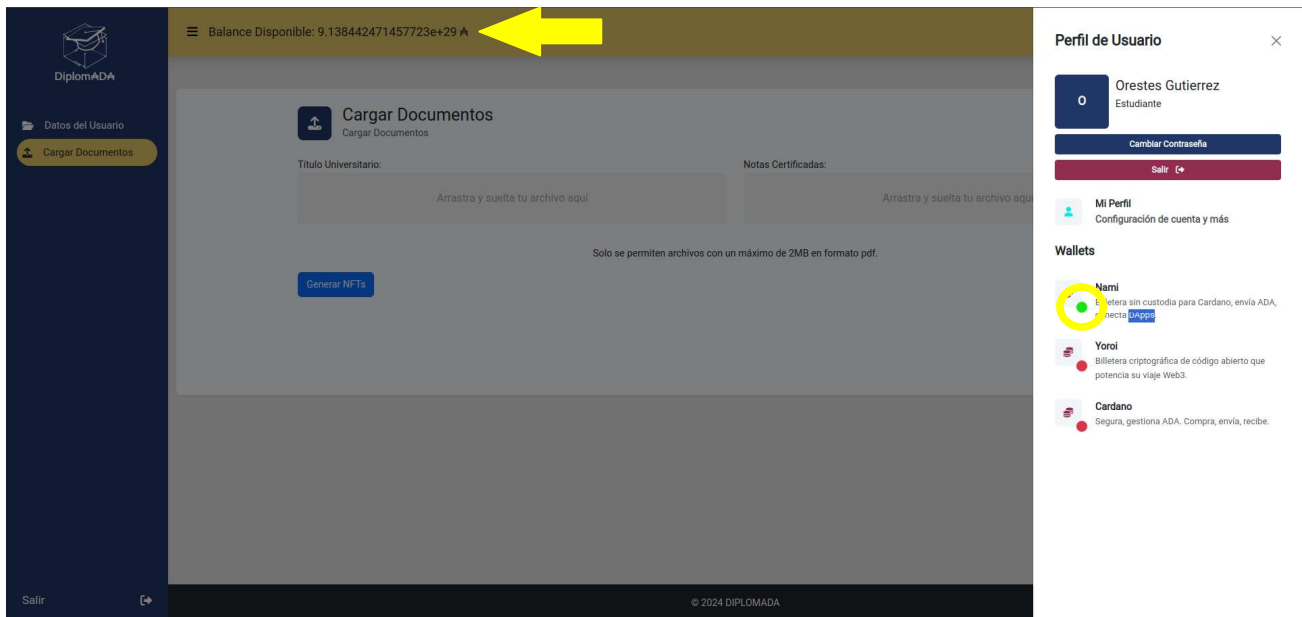
Image N.º 8



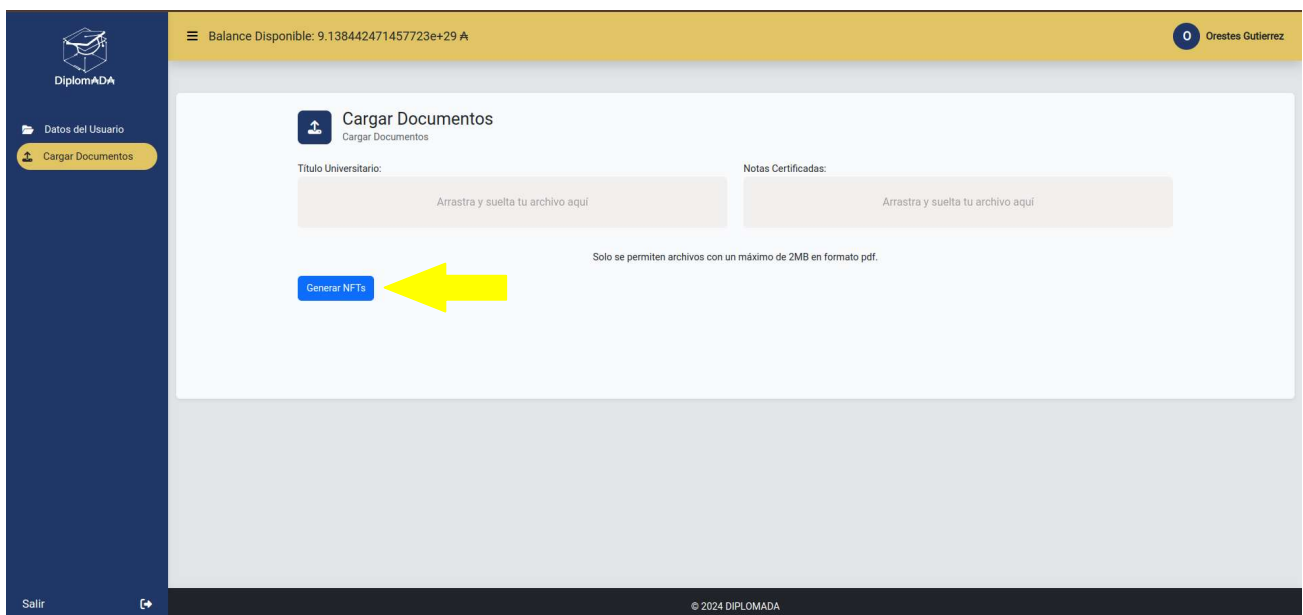


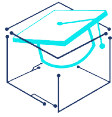
In this image we can see the request from the web application to connect to the wallet, this request must be accepted by the user who has previously authenticated with his username and password in the wallet through the browser plugin.

Image N.º9



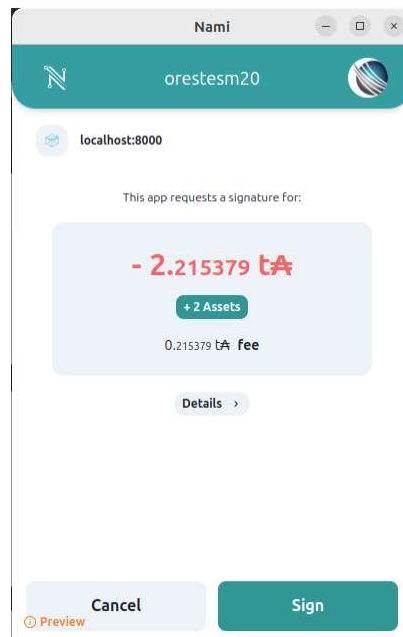
Once the web application is linked to the wallet, it shows us that it is connected by indicating with a green dot, we can also see the balance of our wallet in the application. At this point we can proceed to make a transaction from our web application, for this we will use the button at the bottom called, "Generate NFTs"





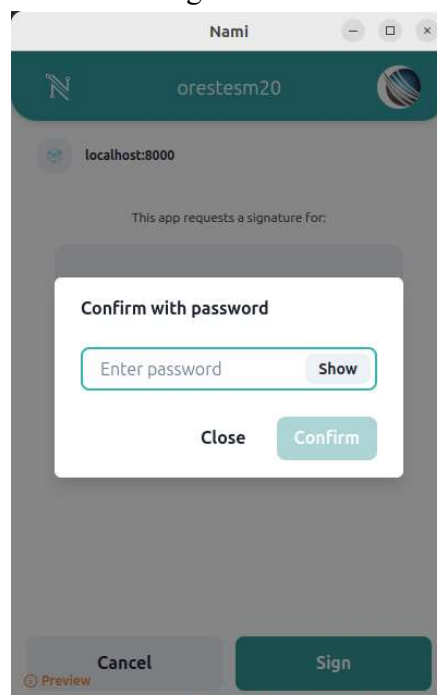
By pressing this button, the application connects to the Lucid API to make a request, in this case requesting the signing of a transaction, we can see this when the plugin shows the transaction request

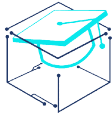
Image N.º 10



At this point, the wallet requests the signature of the transaction. This is done by entering the wallet user's password, to confirm that the transaction is legitimate and that it is being requested by the original owner of the wallet.

Image N.º 11



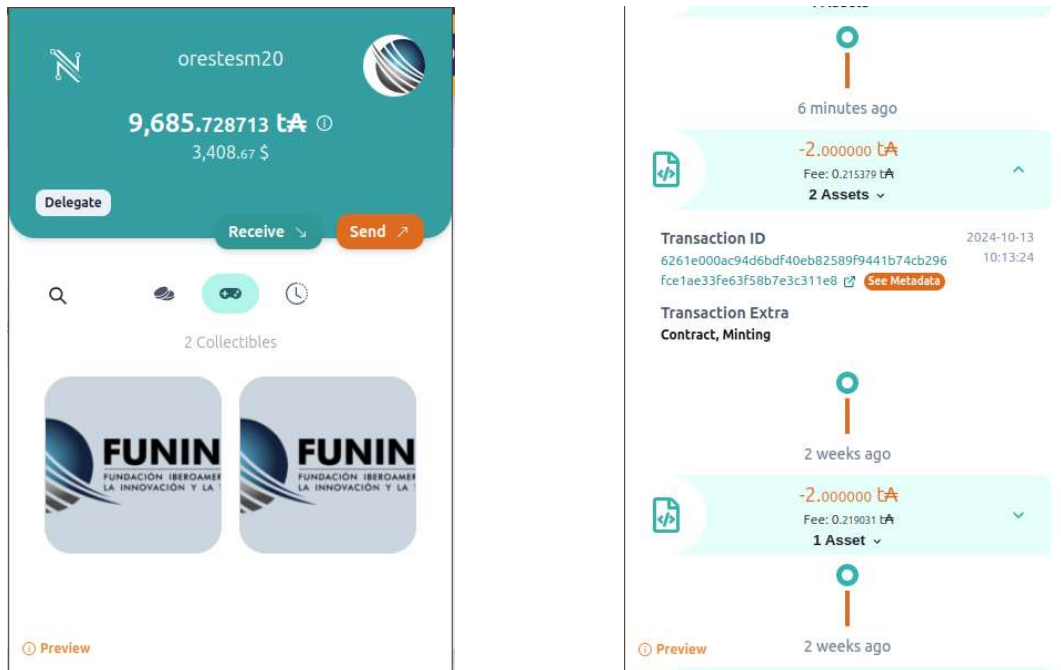


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Upon confirmation, we can see the trace of the process indicated by the plugins that shows us the transaction, you can see the NFTs created and the transaction made with its respective hash.

Image N.º12

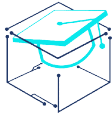


We can verify the transaction made through the block explorer which we will access by clicking on the link “Transection ID”, we leave the transaction id for verification.

<https://preview.cexplorer.io/tx/6261e000ac94d6bdf40eb82589f9441b74cb296fce1ae33fe63f58b7e3c311e8>

Image N.º 13





Thanks to the block explorer we can verify the transaction carried out, this information is obtained by entering the metadata section, there we will have the information available on the NFTs created.

Image N.º14

Label	Data
721	<pre>{   "8e0ebdbfd07fd639adaaf532c040775f1852a2b45a4ee65afe84f9009": {     "dtitulo0917": {       "id": 1,       "name": "Diplomada Titulo Certificado 22",       "image": "https://shorturl.at/NRVjj",       "description": "Diplomada Titulo Test"     },     "dADANotas0917": {       "id": 1,       "name": "Diplomada Notas Certificadas 22",       "image": "https://shorturl.at/NRVjj",       "description": "Diplomada Notas Test"     },     "datos_estudiante": {       "hash": "fac7b8513f4b095174e88a62ee8165fc",       "nombres": "Roberto Jose",       "apellidos": "Cerrud Campos"     }   } }</pre>
721	<pre>{   "8e0ebdbfd07fd639adaaf532c040775f1852a2b45a4ee65afe84f9009": {     "dtitulo0917": {       "id": 1,       "name": "Diplomada Titulo Certificado 22",       "image": "https://shorturl.at/NRVjj",       "description": "Diplomada Titulo Test"     },     "dADANotas0917": {       "id": 1,       "name": "Diplomada Notas Certificadas 22",       "image": "https://shorturl.at/NRVjj",       "description": "Diplomada Notas Test"     },     "datos_estudiante": {       "hash": "fac7b8513f4b095174e88a62ee8165fc",       "nombres": "Roberto Jose",       "apellidos": "Cerrud Campos"     }   } }</pre>

To continue with the process, at this point the applicant can complete their registration process, to do so, they must enter the “Registration” function.

Image N°15

**Inscripción**  
Usuario / Formulario de Inscripción

Otro Teléfono:

A realizado cursos anteriores?

Foto Tipo Carnet:

Curriculum:

Titulo de postgrado:

Otros Titulos:

Derección:

Cursos/Diplomada:

Curso Anterior:

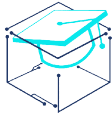
Fotocopia del Documento de Identidad:

Partida de Nacimiento:

Calificaciones de Postgrado:

Nacionalidad:

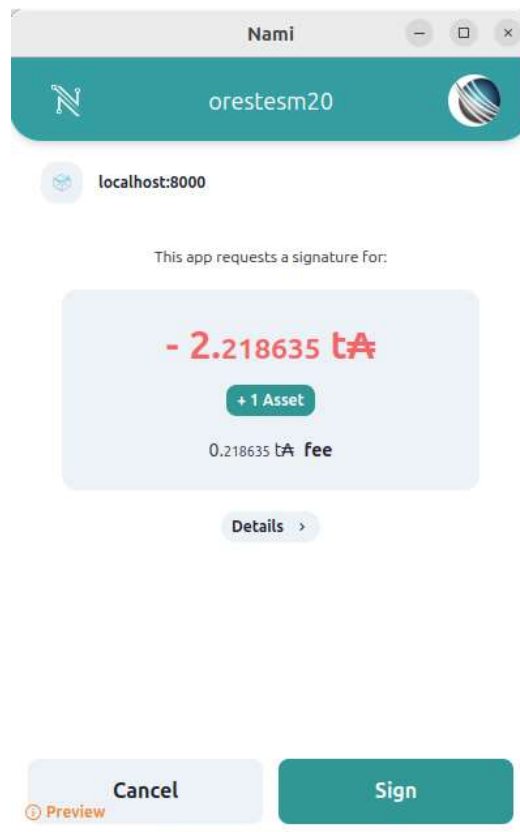




This is the form that allows the applicant to register in the study control system. To formalize their registration, they must fill out each of these fields and then register their registration in the blockchain.

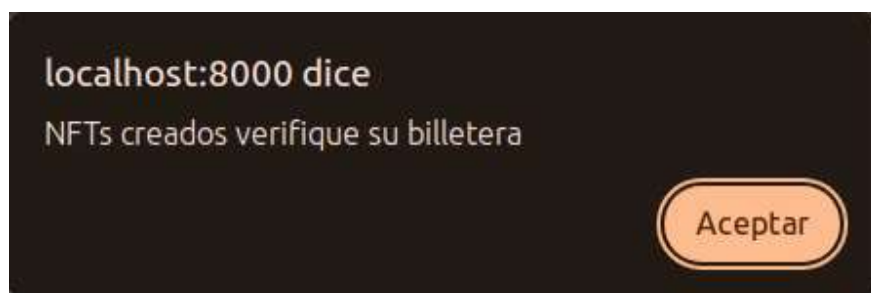
After registering the registration, the process is carried out in a second step, the “NFT Registration” button makes the transaction request to register the registration in the blockchain.

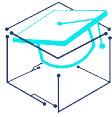
Image N.º 16



Once the transaction is confirmed, the system displays this notification indicating that the transaction was carried out successfully

Image N.º 17





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This process changes the status of the applicant, this can be seen in the administrator interface, in the student section.

Image N.º 18

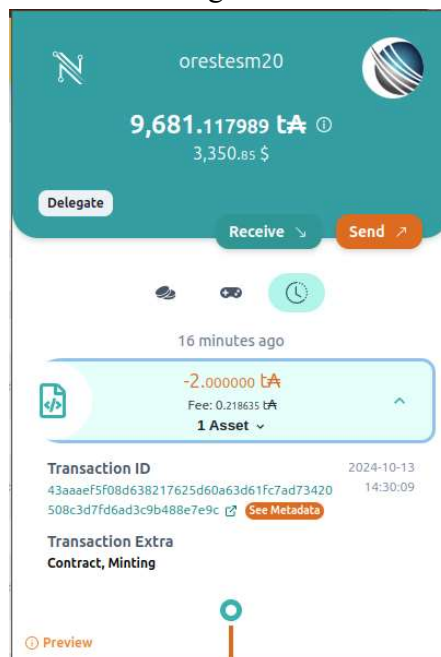
ID	Nombre	Apellido	Cédula	Sexo	Correo	Telefono	Perfil	Transacción Hash
1	BYRON	CEVALLOS	00004444	femenino	xalozebredou-1679@yopmail.com	0212222222	Estudiante	241a9b4ae1e2dbf44b27872542e1996c604b48771cDe6c5cwaes5d6d0f
2	GONZALO	BALCAZAR	00006666	masculino	heiceceinona-7141@yopmail.com	0412777777	Estudiante	2809fe482ce3bc3240bdf8bceaf1b6d7178c8530571372b1559804cf2664b
3	FERNANDA	CAMPOS	00001111	femenino	quolludeutanno-6581@yopmail.com	0412777777	Estudiante	1e7e9ad7ce272ec997f8a240d7cc9b2597e08ac265ed5d07d291b4a94532
4	Orestes	Gutierrez	18814102	masculino	orestesm20@gmail.com	04122045123	Estudiante	43aaaf5f08d638217625d60a63d61fc7ad73420508c3d7fd6ad3c9b488e7e
5	JAIME	CARDENAS	00007777	masculino	bregeluboitto-8799@yopmail.com	0412333333	Estudiante	43c7b9c845a75357beb6fb8278c683726f3d01bd0f39b78126cfd0ae20b33

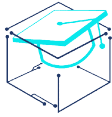
6 Registros encontrados

To verify the NFT registration process, we enter the plugin, in the transaction history, this is the transaction hash:

<https://preview.cexplorer.io/tx/43aaaf5f08d638217625d60a63d61fc7ad73420508c3d7fd6ad3c9b488e7e9c>

Image N.º 19





In the block explorer we can verify the metadata of the transaction carried out for the registration process.

Image N.º20

Label	Data
721	<pre>{   "aa491481c7dd513475184582cf6187d08f89478445045a58f4334855": {     "18814102": {       "id": 1,       "name": "Diplomada Inscripcion 1",       "image": [         "https://shorturl.at/NRvjj"       ],       "description": "Diplomada Titulo Test"     },     "datos_estudiante": {       "hash": "fac7b8513f4b985174e88a02ee8165fc",       "sexo": [         "masculino"       ],       "curso": "Diplomada en Desarrollo de Aplicacopmes en Cardano",       "cedula": [         "18814102"       ],       "correo": [         "orestesm20@gmail.com"       ],       "celular": [         "04122045123"       ],       "nombres": [         "Orestes"       ],       "apellidos": [         "Gutierrez"       ],       "direccion": [         "dirección de prueba"       ],       "fecha_nac": [         "1996-06-19"       ],       "telefono_otros": [         "04128888888"       ],       "telefono_habitacion": [         "02125634187"       ]     }   } }</pre>

Up to this point, the tokenization and registration processes of 2 administrative processes contemplated in the study control system are covered. With this route, the title and grade registration process and the registration by the applicant are covered.