

CLAIMS

[Claim 1]

An information processing system that executes control to allow a client to use a content associated with an NFT with a predetermined tool while an owner owns the NFT on a blockchain, the system comprising:

a first control unit that encrypts the content using a first key and stores the encrypted content in a storage, and stores the first key by a first smart contract on the blockchain;

a second control unit that executes control, according to the first smart contract, to set a usage right of the content to the client satisfying a predetermined condition;

a third control unit that executes control to extract, when the client requests use of the content, the encrypted content from the storage, and transmit the encrypted content to the predetermined tool operated by the client; and

a fourth control unit that executes control, according to the first smart contract, to transmit the first key to the predetermined tool operated by the client, when it is confirmed that the client has the usage right.

[Claim 2]

The information processing system according to claim 1, wherein the third control unit executes control, as the control, when the client requests the use of the content, to

acquire the first key from the first smart contract, re-encrypt the content extracted from the storage using the first key and a second key, and transmit the re-encrypted content and the second key to the predetermined tool operated by the client.

[Claim 3]

The information processing system according to claim 1, wherein the predetermined tool is a dedicated tool for using the content provided by the control of the first control unit to the fourth control unit by decoding the content using at least the first key.

[Claim 4]

The information processing system according to claim 1, wherein, in order to realize an affiliate program in which the content used by a first client is introduced to a second client and the first client obtains an introduction fee when the second client uses the content, the blockchain further includes a second smart contract having information of the first client, and

the information processing system further comprises:

a fifth control unit that executes control to create introduction data for introducing the content to the second client, transmit the introduction data to the second client, and register the information of the first client in the second smart contract; and

a sixth control unit that executes control, according to the first smart contract, to pay the introduction fee to the first client when the second control unit executes the control to set the usage right of the content to the second client and the information of the first client is acquired from the second smart contract to the first smart contract.

[Claim 5]

An information processing method executed by an information processing system that executes control to allow a client to use a content associated with an NFT using a predetermined tool while an owner owns the NFT on a blockchain, the method comprising:

a first control step of encrypting the content using a first key and storing encrypted content in a storage, and storing the first key by a first smart contract on the blockchain;

a second control step of executing control, according to the first smart contract, to set a usage right of the content to the client satisfying a predetermined condition;

a third control step of executing control to extract, when the client requests use of the content, the encrypted content from the storage, and transmitting the encrypted content to the predetermined tool operated by the client; and

a fourth control step of executing control, according to the first smart contract, to transmit the first key to the predetermined tool operated by the client when it is confirmed

that the client has the usage right.

[Claim 6]

A program that causes a computer that executes control to allow a client to use a content associated with an NFT with a predetermined tool while an owner owns the NFT on a blockchain, to execute control processing including:

a first control step of encrypting the content using a first key and storing encrypted content in a storage, and storing the first key by a first smart contract on the blockchain;

a second control step of executing control, according to the first smart contract, to set a usage right of the content to the client satisfying a predetermined condition;

a third control step of executing control to extract, when the client requests use of the content, the encrypted content from the storage, and transmitting the encrypted content to the predetermined tool operated by the client; and

a fourth control step of executing control, according to the first smart contract, to transmit the first key to the predetermined tool operated by the client when it is confirmed that the client has the usage right.