DeCo Ergoscript HW1

NFT Certification

In a multistage transaction, the inputs would be the class roster along with other details pertaining to the course taken. It would involve many descriptions which would explain the student’s affiliation to the certificate. The first tx would be from the professor of the course to upload the roster with the right information. This tx would bring the student addresses and other details into the picture.

Second tx would require from the student once the course is completed, the student would require to send a tx along with the professor if the certificate has passed.

Tx1 is considered the full roster of the students being admitted into the class. This is a set of new boxes created with the student information individually with the flag ‘in course’. These would be the input for the tx2 which will occur.

Tx2 would be the students trying to collect their certification once the class is over. This includes various updated information such as- score, pass/fail and some type of feedback. In this tx, the output box of tx1 would be used and corresponds each box with the students private key.

The guard script from the first tx would need to be able to have the address of the professor to allow a mass input of other addresses. When the new boxes are created with the input for tx2, the students public key/ private key needs to be associated in the guard script. This will be the new requirement as the student and professor signatures are required to authenticate the certificate.

The output would consist of the student information with their ownership. This ownership will contain an NFT with the students information and other details.