**EduToken Proposal**

**Team Members**

* Aaron Montano
* Aruna Bisht
* Lucas Manning

**Background**

The increasing interest in providing free tuition to community college students, along with developments in non-fungible tokens, has provided an opportunity to consider alternative methods of receiving and redeeming educational costs while creating a system of accountability that ensures that all transactions can be properly accounted for. This project will create a NFT that will be the equivalent of a unit in the CA community college system. We will be developing the means to mint a token that also stores the necessary information of the student and will develop a front-end that will take in all necessary inputs, as well as provide a record of all transactions. In addition to storing the units, we will ultimately have to make an additional contract that allows the units to be redeemed and held by the school. If we could demonstrate the automated process that such a system provides, we could save hundreds of thousands of dollars in administrative costs and would effectively eliminate the worry of students misusing their financial aid money.

**Motivation**

Lucas has worked in the community college system as an instructor for over 8 years, and in that time has been disillusioned by the vast amounts of money spent in administrative positions, as well as the lack of accountability many of his students have had when it comes to receiving financial aid. It is the hope that an NFT of this type would help eliminate unnecessary overhead expenses for community colleges and provide a means to ensure that financial funds are used as intended.

**Tools/Modules to use**

* Python
* Pandas
* Solidity
* Metamask
* Genache
* Pinata

**Tasks Breakdown**

* Aruna: Create ERC71 smart contract
* Lucas: Develop Streamlit application and connect to smart contract
* Aaron: Develop Alexa application
* All: Test and debug all code. Develop presentation

**Tasks and timeline**

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| --- | --- | --- | --- |
|  | **Date** | **Task** | **Notes** |
| **1** | **5/2** | Project Work |  |
| **2** | **5/29** | Project Work |  |
| **3** | **5/30** | Project proposal |  |
| **4** | **5/31** | Project proposal |  |
| **5** | **6/1** | System development |  |
| **6** | **6/2** | Code development |  |
| **7** | **6/3** | Code development |  |
| **8** | **6/4** | Code development |  |
| **9** | **6/5** | Code development |  |
| **10** | **6/6** | Create Visualizations |  |
| **11** | **6/7** | Presentation prep |  |
| **12** | **6/8** | Mock Presentation |  |
| **13** | **6/9** | Finalize the project |  |
| **14** | **6/10** | PROJECT PRESENTATION |  |