



EDU COIN
To gamify learning



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TRANSFINITTE'22 - PRESENTATION

EXECUTIVE SUMMARY

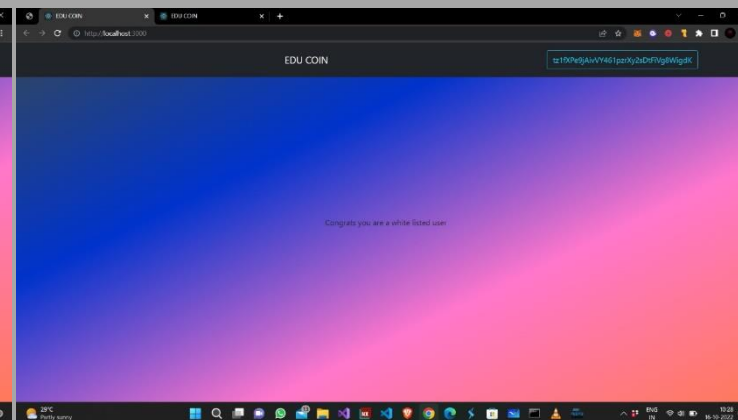
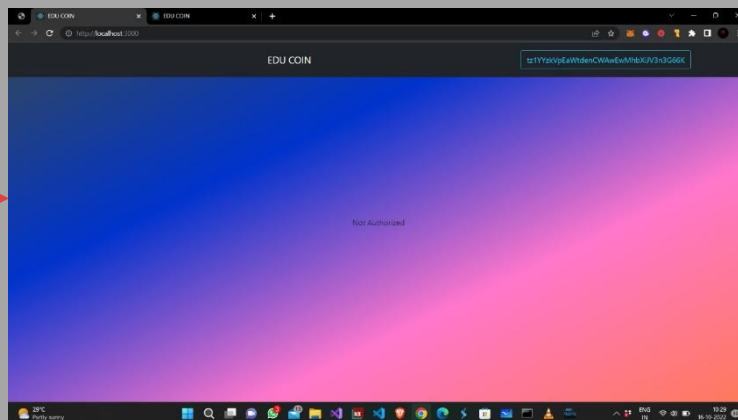
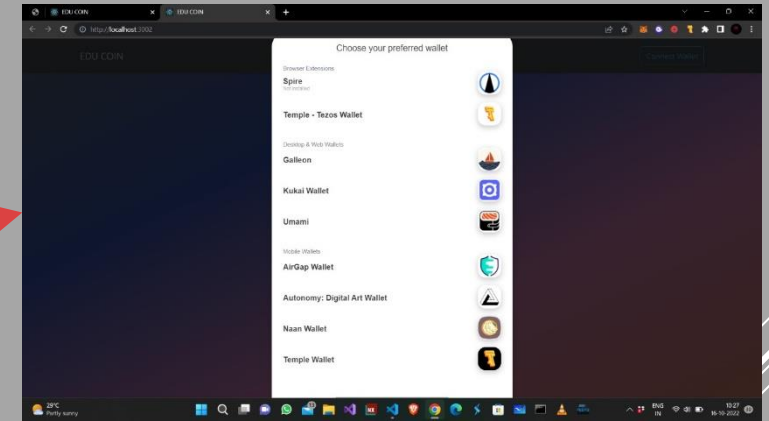
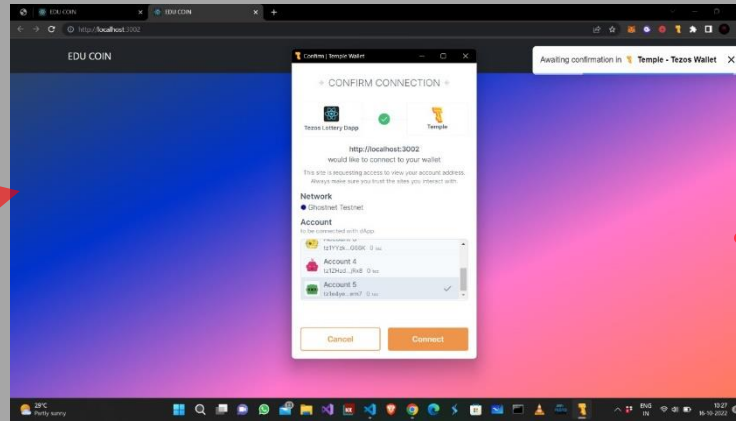
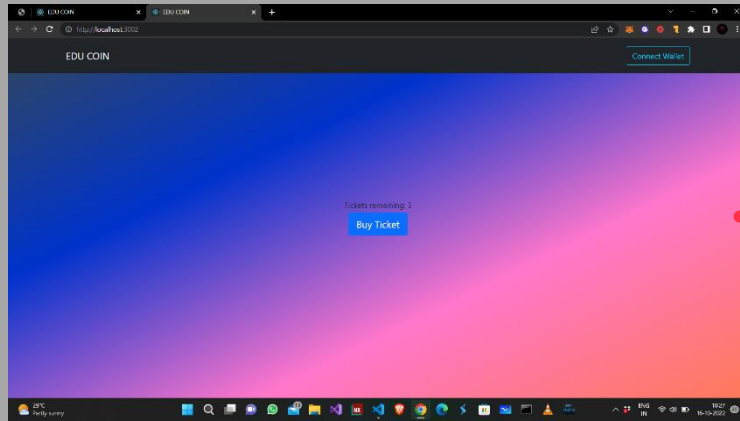
Problem Statement: Perform whitelisted ICO of 15 addresses using a Merkle Tree. Only a whitelisted wallet should be able to do the transaction on the smart contract.

TECHNICAL IMPLEMENTATION: Smart contracts, merkel tree, whitelisting, web deploying.

REAL LIFE PROBLEM: Educational sector has long been plagued by mundane rigor classroom work. Making the classroom experience livelier, especially for primary school Children, would go a long way in improving student's engagement throughout the school life.

OUR VISION: Edu Coin aims to gamify the learning process by utilizing crypto currency to reward achievements and good behaviour.

PRODUCT MOCKUP



PRODUCT TECHNICAL FEATURES

We use the Tezos Blockchain to examine the efficiency and cost of our Model. We use the Smartpy to create a contract and publish it to Ghost public test network.

In our model each transaction on Tezos has a cost for the user. The user must include a gas fee when submitting transactions. Users can send coins with a minimal fee filter.

The screenshot displays the TzKT Ghostnet interface. On the left, a sidebar shows the user's profile (tz1U5wp9...dig6n), balance (6,096.345956 ₮), and counter (12,260,925). The main area shows a list of transactions under the 'ALL' tab. A specific transaction is highlighted, showing the 'Origination' details and a breakdown of fees.

Transaction	Date	Status
-500 \$EDC to tz1fXPe9...WigdK, -0.000826 ₮ fee	15 Oct, 19:21:50	✓ applied transaction
-500 \$EDC to tz1fXPe9...WigdK, -0.018053 ₮ fee	15 Oct, 19:17:35	✓ applied transaction
-1,000 \$EDC to tz1QWJNE...Jzb7S, -0.018361 ₮ fee	15 Oct, 19:15:00	✓ applied transaction
Create smart contract KT1PP5d3...efTDP, producing 1 token transfer, -1.524396 ₮ fee	15 Oct, 14:06:35	✓ applied origination
Create smart contract KT18y2ji...JCjPA, producing 1 token transfer, -1.544981 ₮ fee	15 Oct, 02:29:50	✓ applied origination
Create smart contract KT1A7B8P...W9mwu, producing 1 token transfer, -1.547053 ₮ fee	15 Oct, 02:22:35	✓ applied origination
Reveal public key, -0.000374 ₮ fee	15 Oct, 02:22:35	✓ applied reveal
+100 ₮ (US\$135.93) from tz1a4GT7...9z5RC	15 Oct, 00:45:50	✓ applied transaction
+6,001 ₮ (US\$8,156.86) from tz1a4GT7...9z5RC	15 Oct, 00:45:20	✓ applied transaction

Fee Type	Amount
Baker fee	0.006303 ₮
Allocation fee	0.06425 ₮
Storage fee	1.4765 ₮
Gas used	4,801 / 4,901 [98%]
Storage used	6,163 / 6,163 [100%]
Counter	12260920

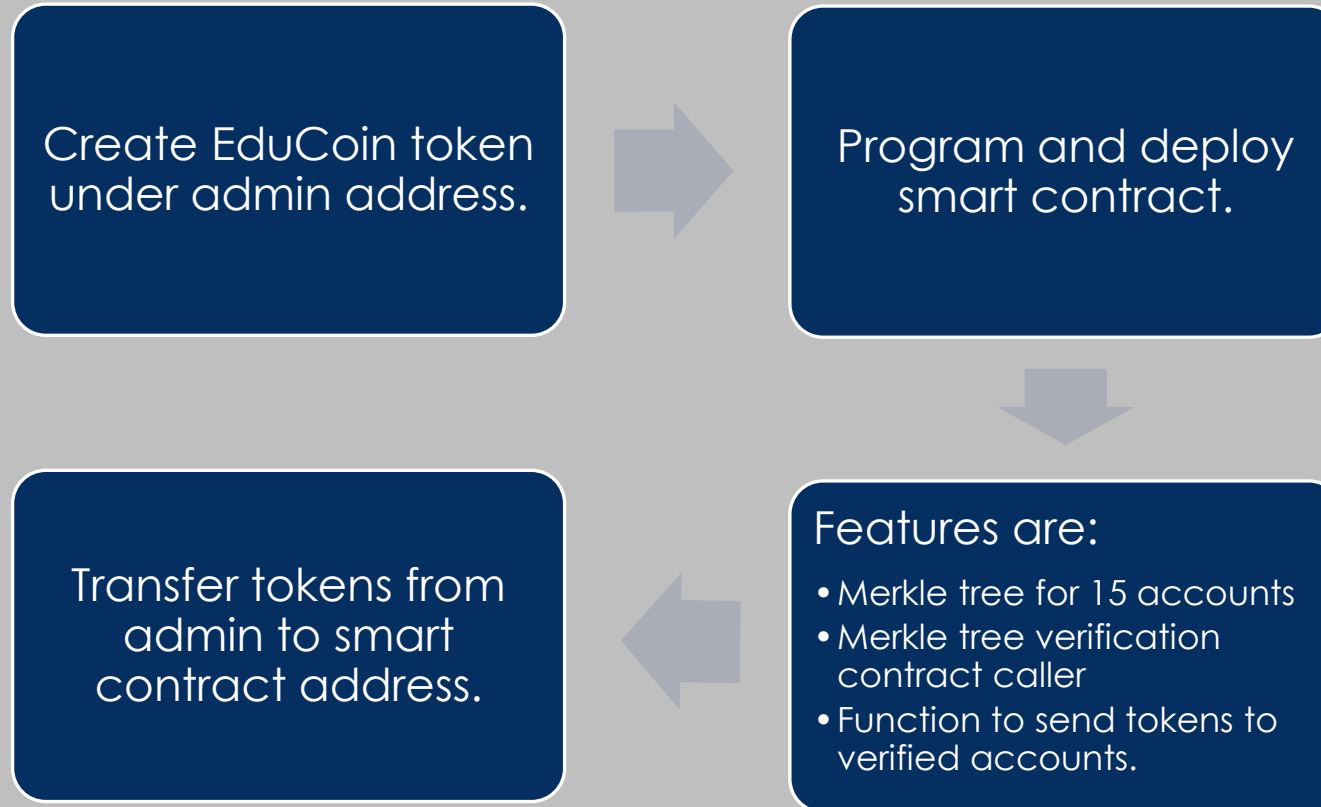
RPC JSON View

```
{
  "kind": "origination",
  "source": "tz1U5wp9QG1W7eZpJHLTNcbsPFFLZ2Gdig6n",
  "fee": "6303",
  "counter": "12260920",
  "gas_limit": "4901",
  "storage_limit": "6163",
  "balance": "0",
  "script": {
    "code": [
      {
        "prim": "parameter",
        "args": [
          {...} // 2 items
        ]
      },
      {
        "prim": "storage",
        "args": [
          {...} // 2 items
        ]
      },
      {
        "prim": "code",
        "args": [
          [...] // 17 items
        ]
      }
    ],
    "storage": {
      "prim": "Pair",

```

The contract is deployed at Counter block at 12260920, get the Baker fee 0.006303 ₮, Allocation fee = 0.06425 ₮, Storage fee = 1.4765 ₮.

TECHNICAL SOLUTION



THE REAL WORLD APPLICATION

1. Indian Educational system has long been affected by mundane, strict lectures.
2. There is dire need of fun elements that increase student's interest.
3. Also, there is a general lack of fostering confidence and competitive attitude among school children.
4. In most cases there is no documentation of awards and through years, students lose their certifications one way or another.
5. Little rewards for daily activities would go a long way in motivating children to engage in them more.

OUR PRODUCT

1. We created a crypto-currency focused on primary schools.
2. Edu Coin aims to gamify the learning process by utilizing crypto currency to reward achievements and good behaviour.
3. Students are awarded these coins for any minor or major achievement from good classroom engagement to extracurricular merit.
4. This currency can be used for
 1. Documenting and systemizing rewards at schools.
 2. House based annual reward or any competition scores can be made errorless.
 3. Motivating students to act better by rewarding favourable behaviour such as good classroom engagement, extracurricular merit and daily homework.

THANK YOU!
HAPPY FOR ANY CLARIFICATIONS

