

Overview

NOTE: IMPORTANT!

ON ALL PUBLIC SERVERS REMOVE THE WORD BUCKEYE (FOR LIABILITY REASONS)

- **Have it just be called CryptoCoin**

This final BuckeyeCoin milestone wraps up the project by:

- Showing your deployed token in a simple Streamlit dashboard.
- Telling a clear campus use-case story with real or recorded on-chain data.
- Outlining how governance, incentives, and risk would work if OSU actually piloted your version of BuckeyeCoin.

There is no formal grading on this milestone, but teams are expected to complete it as the conclusion of the BuckeyeCoin build and as a portfolio-quality artifact for Demo Day-style showcases.

Component 1: Streamlit Dashboard

Build one Streamlit app with two pages.

Page 1 – Overview & Use-Case

- Branded as Team Scarlet BuckeyeCoin or Team Gold BuckeyeCoin.
- Plain-language explanation of your chosen campus use-case (student life vs. research/alumni).
- Simple flow/diagram (in markdown or image) showing how a typical user would interact with BuckeyeCoin.
- Display:
 - At least two labeled wallet addresses and their BuckeyeCoin balances (live or from a snapshot).
 - A “Recent Transactions” section listing a handful of real or recorded transactions (date, sender/recipient role, amount, hash link).

CS member: builds the Streamlit layout and wiring.

Finance members: write all the text and define the flows/roles.

Page 2 – Analytics & Interpretation

- One simple chart (distribution of tokens, transactions over time, or similar).
- One table of recent transactions with basic fields (date, sender role, recipient role, amount, fee, type).
- Short interpretation (shown as markdown in the app) explaining:
 - What the data tells you about how BuckeyeCoin is being used.
 - Whether this feels viable for OSU at larger scale and why.

CS member: loads data (CSV/JSON or API) and draws the chart/table.

Finance members: prep the data and write the interpretation.

Component 2: Governance & Risk Memo (2–3 pages, PDF)

A team-written memo (finance-led) explaining what it would take for OSU to run this responsibly.

Include:

1. Governance Model
 - Who controls minting/burning and key decisions.
 - How decisions are made and updated.
 2. Incentives & Behavior
 - Desired behaviors (what BuckeyeCoin should encourage).
 - Potential misuses and how your design discourages them.
 3. Operational & Ethical Risk
 - What can go wrong (lost keys, bugs, scams) and how OSU could respond.
 - Equity/access concerns and any “red lines” OSU should avoid.
 4. OSU Admin One-Pager
 - Plain-language pitch to an administrator.
 - Your recommendation (pilot / limited pilot / not ready).
 - A few conditions that must be in place before a real deployment.
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Component 3: Tokenomics & Scenario Analysis (1–2 pages, PDF)

Finance-heavy modeling of how your token behaves.

Include:

- Current parameters: total supply, distribution, any peg, fee structure, and basic rules (with a small summary table).
- Scenario 1 – Campus usage: e.g., 1,000 students using BuckeyeCoin for events; show token flow, fees, and whether that feels workable.
- Scenario 2 – Growth or stress test: e.g., alumni rewards over a year; show what breaks or needs rethinking.

CS member only needs to sanity-check that these scenarios match how the contract actually works.

Component 4: Reflection & Roadmap (1–2 pages, PDF)

- CS member: a short reflection on what was learned about finance and constraints.
- Finance members: short reflections on what was learned about smart contracts and technical limits.
- Team bullets:
 - Technical next steps if a future team picked this up.
 - Finance/policy next steps (pilot ideas, governance refinements, metrics to monitor).

Expectations & Timeline

- This milestone is not graded, but it is expected from each team as the final chapter of the BuckeyeCoin project and as a showcase artifact for future opportunities.
- Target completion: end of Week 1 next semester
- You may get the opportunity to present at an upcoming hackathon where potential employers can see