BrahmaX 1.0
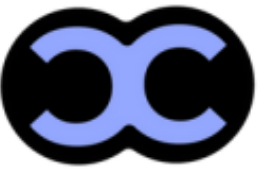
The Creation of Tomorrow

BrahmaX 1.0

Profile Overview

- **Theme** - Web3 & Blockchain.

- **Problem Statement Title** - Lack of verifiable proof of coding skills from GitHub projects and recruiters lack trust in portfolios.

- **Team ID** - namdeoyash192@gmail.com

- **Team Name** – Logicastra.

Team Logicastra
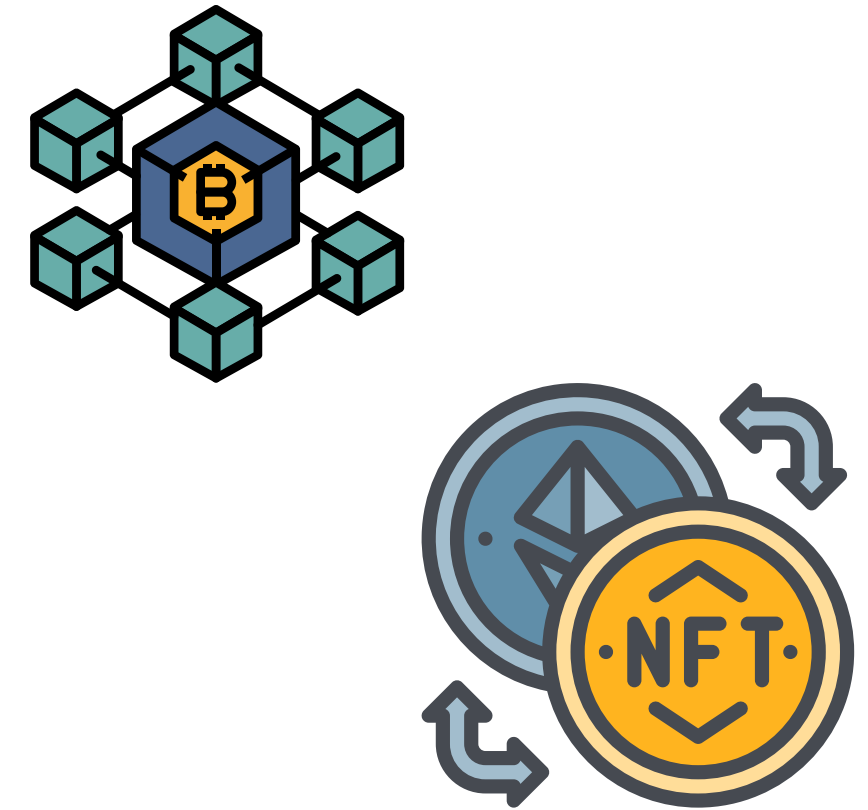
Proof of Skills with Web3 & Blockchain

1. Solution Overview

- Verifies originality of GitHub projects
- Rewards real work with Web3 NFT badges
- Decentralized & transparent proof of coding skill

2. Problem-Solving

- Checks commit history, forks, authorship
- Scores project effort & originality
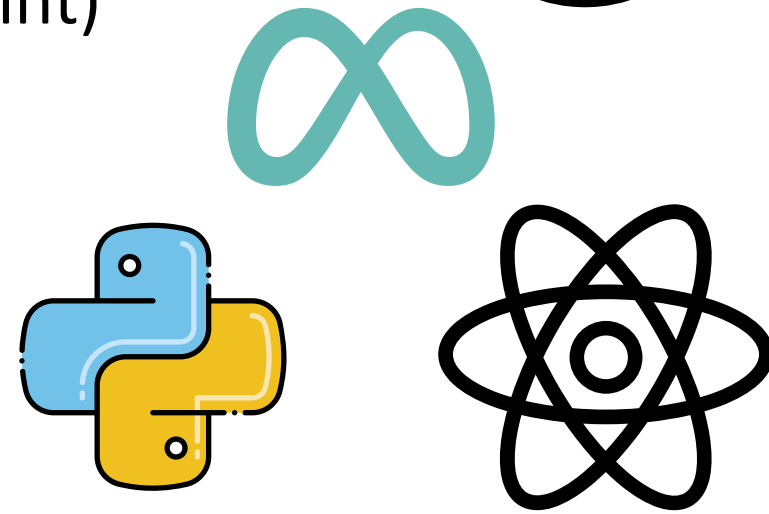- Mints badge only if project is genuine

3. Innovation

- Combines GitHub analysis + NFT minting
- Skill badges can't be faked or deleted
- Builds trust for recruiters & peers

Technical Approach

1. Technologies Used

- Django (Backend)
- GitHub API, OAuth (Verification)
- Thirdweb + MetaMask (NFT mint)
- React (Frontend)
- Polygon Mumbai (Testnet)

2. Methodology

2. Login via GitHub & MetaMask
3. Submit a GitHub repo
4. Check originality + commits
5. Mint NFT if verified

3. Process Flow

GitHub Login → Repo Analysis → Skill Score → Mint NFT Badge
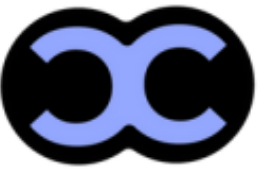
Process Flow

GitHub Login → Repo Analysis → Skill Score → Mint NFT Badge

FEASIBILITY AND VIABILITY

1. Feasibility

- Fully API-based (no blockchain dev needed)
- Testnet minting is free
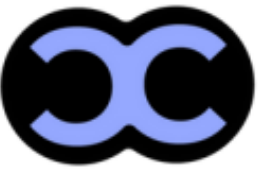- Frontend + backend clearly divided

2. Challenges & Risks

- Users can copy-paste code
- New users may not understand wallets
- Commit logic might not be perfect

3. Mitigation Strategies

- Analyze author, time spread, and message patterns
- Use testnet & simplified wallet UI
- Add mentor endorsement in future
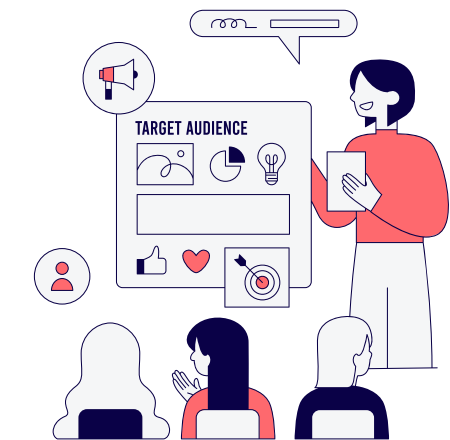
IMPACT AND BENEFITS

1. Target Audience Impact

- Devs seeking skill-based recognition
- Recruiters needing verified portfolios
- Hackathon organizers needing project authenticity

2. Key Benefits

- Encourages honest dev culture
- Rewards real work with trustable badges
- Easy resume integration

3. Long-Term Value

- Expand to designers, writers, freelancers
- Add peer/mentor verification
- Integration into job platforms & coding sites

REFERENCES

- **Thirdweb Developer Documentation** (for NFT minting)
  https://portal.thirdweb.com/

- **MetaMask Developer Documentation** (for wallet connection)
  https://docs.metamask.io/guide/

- **Certik – Blockchain Security & Verification Projects**
  https://www.certik.com/

- **Gitcoin – Web3 Skills Proof and Bounties**
  https://gitcoin.co/

- **Web3 Resume Concept Discussion**
  https://mirror.xyz/w3resumes.eth

- **GitHub REST API Documentation**
  https://docs.github.com/en/rest