

Project Overview: ARGO COIN (AGC)

Objective: To implement a rewarding system for ARGO COIN (AGC) on the Polygon network, allowing users to earn rewards based on their interactions with the platform.

1. Token Deployment and Initialization

1.1 Token Details

- ERC20 Token Name: ARGO COIN
- Token Symbol: AGC
- Total Supply: 200 million

1.2 Deployment on Polygon

- Deploying the AGC token on the Polygon network, ensuring compatibility with ERC20 standards.

1.3 Initialization in Rewarding Contract

- Initialize the AGC token within a rewarding smart contract on the Polygon network.

2. Reward Calculation and User Interaction

2.1 Frontend Configuration

- Developing a frontend system where reward calculations are defined based on user interactions.
- Users are rewarded with AGC tokens based on specific actions or engagements on the platform.

2.2 Reward Accumulation

- As users interact with the platform, the rewarded AGC tokens are accumulated and stored in a database.
- The database associates each reward with the respective user's wallet address.

3. User Dashboard Integration

3.1 User Access to Dashboard

- Users can access their personalized dashboard, providing transparency on accumulated AGC token rewards.

3.2 Real-time Display of Rewards

- The dashboard dynamically displays the current AGC token rewards associated with the user's wallet address.

4. Claiming Rewards

4.1 Claim Request from User

- When a user decides to claim their accumulated AGC token rewards, they initiate a claim request through the backend.

4.2 Backend Interaction with Smart Contract

- The backend connects with the AGC rewarding smart contract, invoking the `rewardUser` function.
- The `rewardUser` function requires two arguments: the user's wallet address and the claimed amount.

4.3 Requirements and Verification

- The smart contract checks specific requirements, ensuring the legitimacy of the claim request.
- It verifies if the claimed amount is greater than a certain threshold; otherwise, the claim is reverted.

4.4 Reward Distribution

- Upon successful verification, the smart contract proceeds with transferring the claimed AGC tokens to the user's account.

5. Conclusion

The ARGO COIN (AGC) Rewarding System on the Polygon network provides a seamless and transparent mechanism for users to earn and claim rewards based on their interactions with the platform. The entire process ensures security, and the smart contract auditors can review and validate the logic and security measures implemented in the rewarding smart contract. The front-end and back-end components work harmoniously to create a user-friendly experience, and the rewarding system is designed to enhance user engagement and participation on the platform.