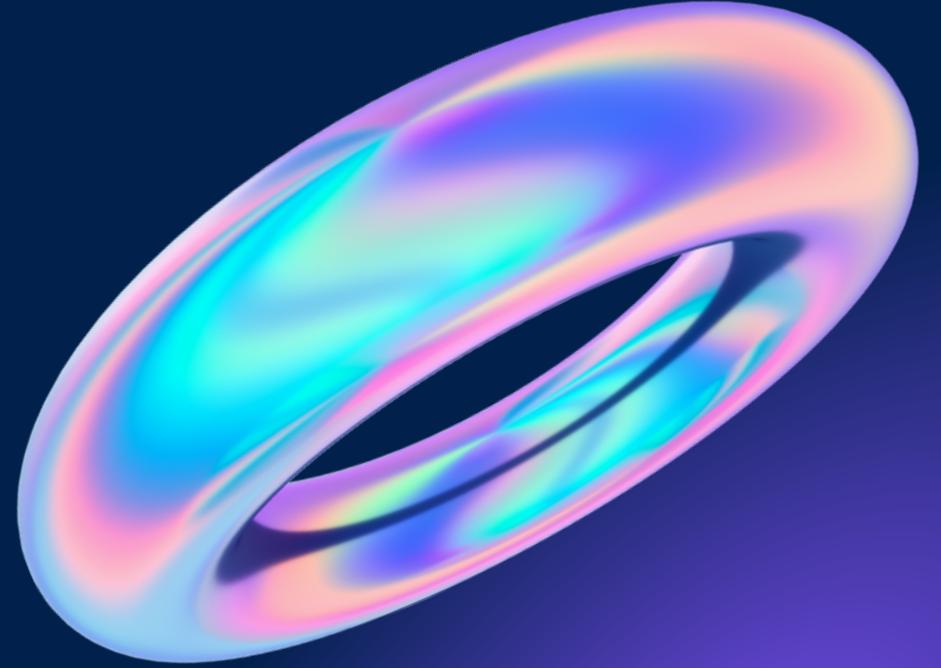




PawGuard

Blockchain based pet welfare incentive





What is PawGuard?

A pet holder readiness evaluation model with NFT rewards and DAO oversight.



Pet Situation

Neglect and Abandonment:

- Many pets suffer due to neglect or abandonment. Some owners fail to provide proper care, leaving pets hungry, sick, or without shelter.

Overbreeding and Puppy Mills:

- Irresponsible breeding practices lead to overpopulation and poor living conditions for animals.



Good Parents?

Age?

Abuse?

Living space?

Financial situation?

Entertainment?

Health care?

Household?

Children?

Food?

PawGuard

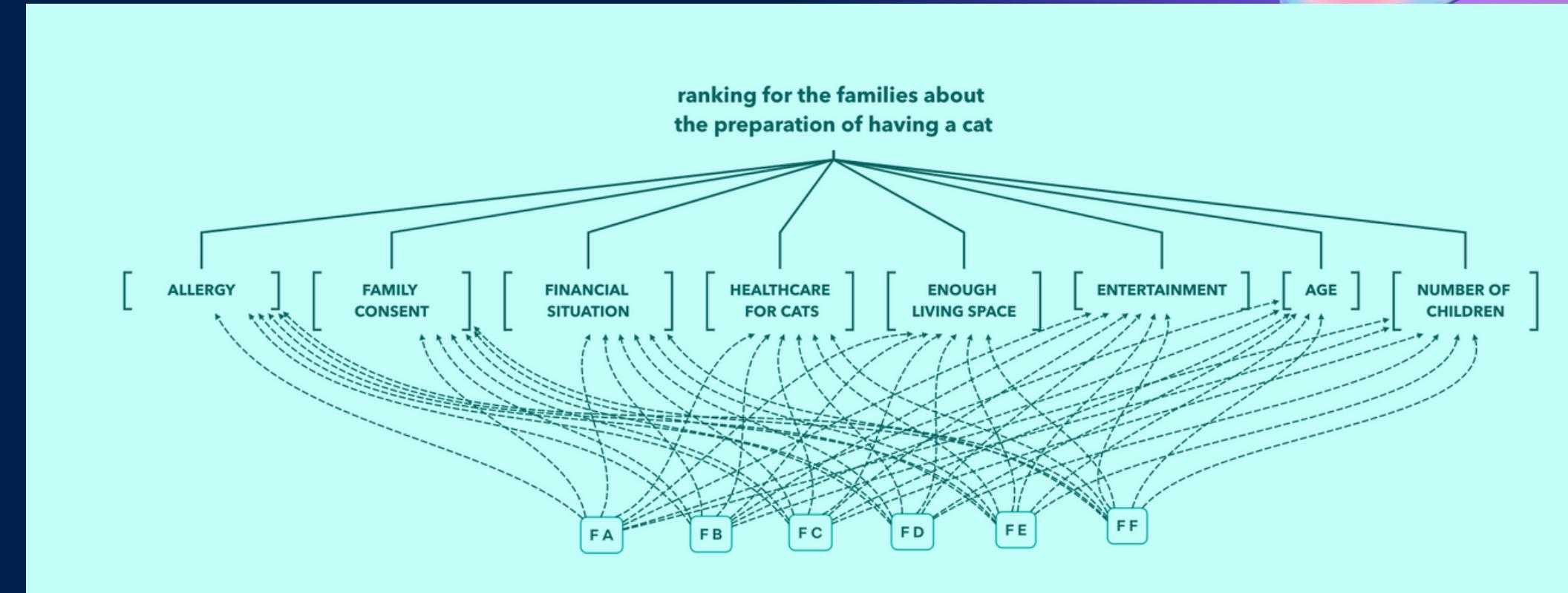


Math Models

Analytic Hierarchy Process (AHP)

We use the AHP to determine the weight of each factor.

- Model the problem as a hierarchy.
- Perform pairwise comparisons to establish priorities.
- Calculate the relative priority weights of the criteria.
- Synthesize the judgments to get overall priorities.
- Check for inconsistencies in the judgments.



- $\text{weightsC} = \{0.3044, 0.1806, 0.1084, 0.0941, 0.0564, 0.0564, 0.0332, 0.0332, 0.1333\}$;
- $\text{weightsD} = \{0.2488, 0.1544, 0.1566, 0.0908, 0.0626, 0.0659, 0.0392, 0.0271, 0.1544\}$;
- $\text{weightsH} = \{0.3107, 0.1337, 0.1825, 0.0713, 0.0492, 0.0930, 0.0339, 0.0239, 0.1019\}$;
- $\text{weightsR} = \{0.2787, 0.2053, 0.1310, 0.0510, 0.0852, 0.0708, 0.0337, 0.0276, 0.1168\}$;
- $\text{weightsL} = \{0.2367, 0.2778, 0.1397, 0.1087, 0.0777, 0.0501, 0.0280, 0.0194, 0.0618\}$;

Math Models

Weighted Linear Combination (WLC)

Each criterion is assigned a weight that reflects its importance relative to the other criteria.

$$S = \sum_{i=1}^n w_i x_i$$

The alternative with the highest total score is considered the best.

```
// Function to calculate the score based on the values and their weights
double calculateScore(vector<double>& values, vector<double>& weights) {
    double score = 0.0;

    // Minimum and maximum values for each variable
    vector<double> min_values = {0, 0, 0, 0, 0, 0, 14, 0, 0};
    vector<double> max_values = {1, 10, 200, 15, 150, 25, 100, 5, 5};

    // Calculate the score for the first 6 variables
    for (int i = 0; i < 6; ++i) {
        score += normalize(values[i], min_values[i], max_values[i]) * weights[i];
    }

    // Calculate the score for the 7th variable (closer to 28-59 is better)
    score += normalize(abs(values[6] - 59), 0, 43) * weights[6];

    // Calculate the score for the 8th variable (closer to 0-2 is better)
    score += normalize(abs(values[7] - 1), 0, 2) * weights[7];

    // Calculate the score for the 9th variable (smaller is better)
    score += (1 - normalize(values[8], min_values[8], max_values[8])) * weights[8];

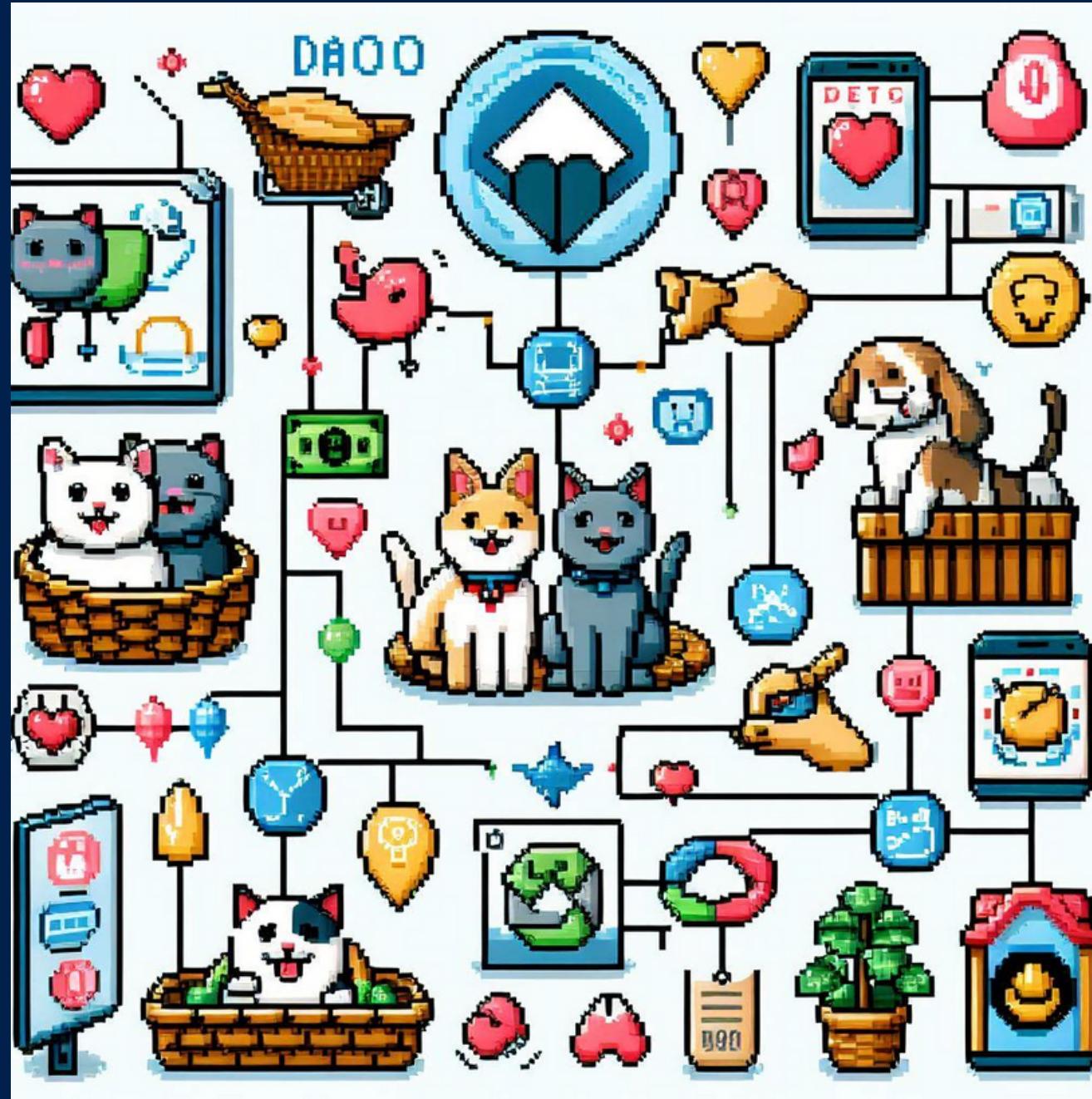
    return score;
}
```

Paw DAO

- **Paw DAO** is a decentralized autonomous organization used to supervise the authenticity of data on the chain.
- Reviewers will also receive specific rewards and there will be penalties for uploader of false(unreal) datas.



Paw DAO

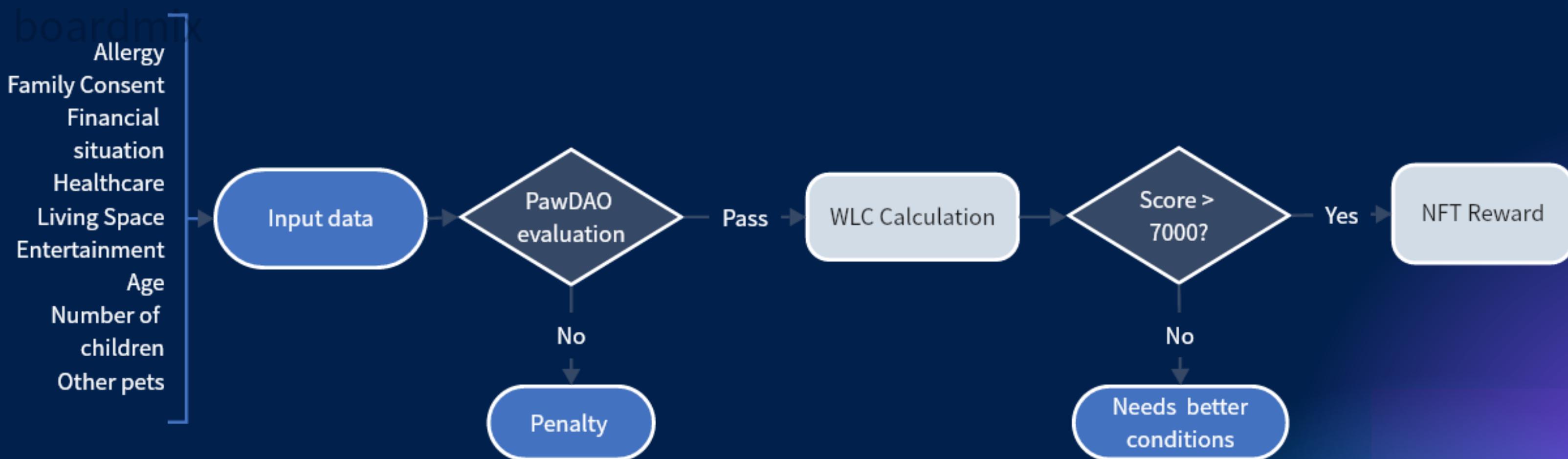


- **Transparent and Trustless Governance:** Transparency is at the core of Paw DAO.
- **Incentivizing Participation:** Active participation in Paw DAO is incentivized.
- **Collaboration with Animal Protection Communities:** NFTs can also be minted collaboratively with animal protection organizations.

NFT Reward Mechanism

After the calculation, we decided to use 0~10000 to represent the score.

If the score is greater than 7000, the user will be rewarded with an NFT.



NFT Reward Mechanism

Each NFT is unique, similar to a collector's item. The value of these NFTs could potentially increase over time, making them not just a badge of honor, but also a form of digital asset.



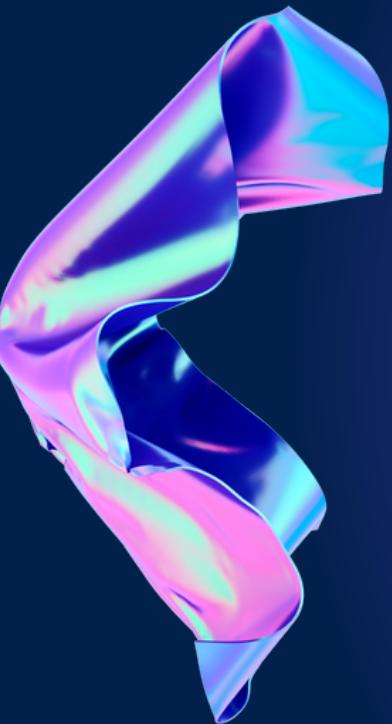
Future



Widespread adoption
of these NFTs as
badges of honor



Well-functioning
DAO where decisions
are made collectively



Give the pets whom
deserve their best
home - nice "parents"

Team



HHH (Edward)
Founder & Developer



Stacy
Designer



Thank You

@pawguard

<https://github.com/HuaEdward/PawGuard>

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