Executive Summary

The main goal of our project is to use Ethereum to manage online pet shops. A decentralized application (DApp) that associates Ethereum addresses with online pet shop operations. Users can vote for a pet that they like, adopt a pet, return a adopted pet, donate a pet, purchase food for pets, and review the information of pets on the website. Some features require a balance of at least 2ETH in the user account

Modification and Features

The modified petshop DApp allow users to perform features using their Ethereum wallet. In our petshop project, we add 6 features.

1. Voting

Add a like button to vote for a pet. This function counts 'likes' voted by users and displays the counts on the website.

Front and back end modified from **index.html**, **app.js**, and **Adoption.sol**

2. Adopter/Owner

Keep track of which pet belongs to which owner, each pet can only have one owner or none. If a pet is adopted, the 'adopt' button is unable to click on.

Front and back end modified from **index.html**, **app.js**, and **Adoption.sol**

3. Revert Adoption

This function can return pets from the website; the limitation is that only adopters can operate it. Return button is unable to click on if the pet is not adopted. A return fee of 2 ETH is required to return a pet, and the corresponding gas fee is required. To process this function, the users are required to have at least 2 ETH in their accounts.

Front and back end features modified from **index.html**, **app.js**, and **Adoption.sol**

4. Vaccination Registry

This function keeps vaccination registry of pets.

Front and back end features modified from **index.html**, **app.js**, and **Adoption.sol**

5. Pet Shop Side Service

Provide food purchase services on the website to support the pets.

Front and back end features modified from **index.html**, **app.js**, **Adoption.sol**

Add a JSON file that includes food products, **products.json**

6. Donation

Allow users to donate pets. A donator must have at least 2 ETH in the account to process the donation. 2 ETH will be donated to a particular pet, and the pet can be adopted for free.

Front and back end feature modified from **index.html**, **app.js**, and **Adoption.sol**