

Kennel Club Judging

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Additional Readings:

<https://nds.nationaldogshow.com/event-info/judging/>

<https://www.akc.org/dog-breeds/>

<https://www.westminsterkennelclub.org/dog-show-101>

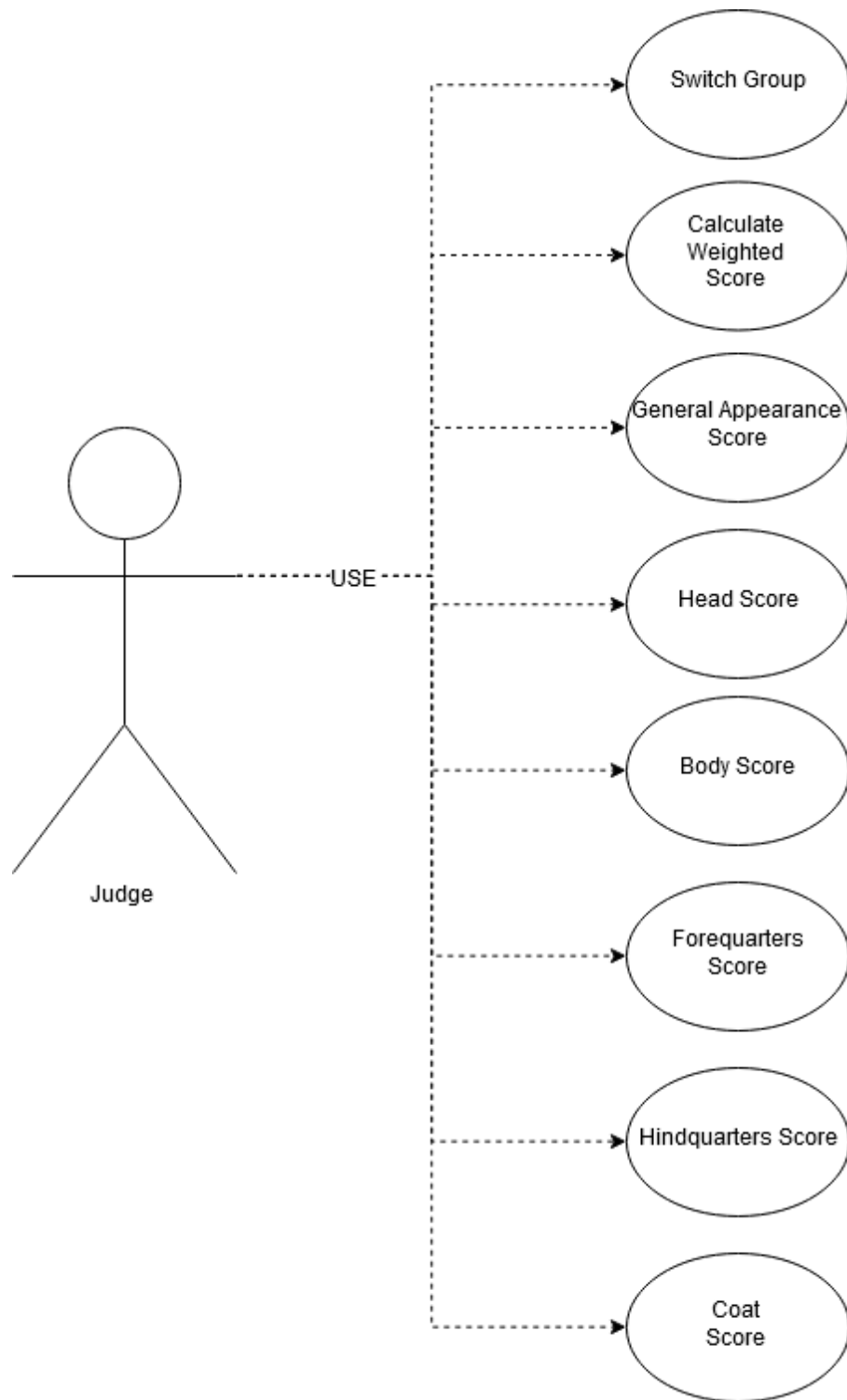
Problem Statement:

Every year, NBC Sports televises the Kennel Club of Philadelphia Dog Show in November around Thanksgiving. This Dog Show is among one of the most prestigious awards shows a dog owner can obtain and has been ongoing since 1879. With advancing technologies, and higher number of competitors, changing the Judging system over to blockchain can open up the application to other diverse applications. The National Dog Show is an open is an open, benched, all-breed show, which means that any American Kennel Club (AKC) registered dog can enter to compete. Judges need to go through extraneous training in order to be able to examine the dogs and place them according to how closely each dog compares with the judge's mental image of the perfect dog as described in the breed's official standard. The official standard is a standard recognized by the American Kennel Club in which 6 features of the dog are looked at: General Appearance, Head, Body, Forequarters, Coat, and Hindquarters. To earn an AKC Championship title the dog needs to win 15 points at AKC shows. Points are earned by defeating other dogs of the same sex and breed at classes held specifically for non-champions. For each dog defeated at a dog show, the other dog gets one breed point. In order to win "Best in Show" a dog must first be judged the best of many dog shows of its same breed competing in the show. Some breeds have more than 100 dogs entered. The winner of the breed moves on to the group judging. Each of the more than 205 AKC registered breeds and varieties are assigned to one of seven groups representing characteristics and functions the breeds were originally bred for. This app helps judges make a secure decision on the best show dog.

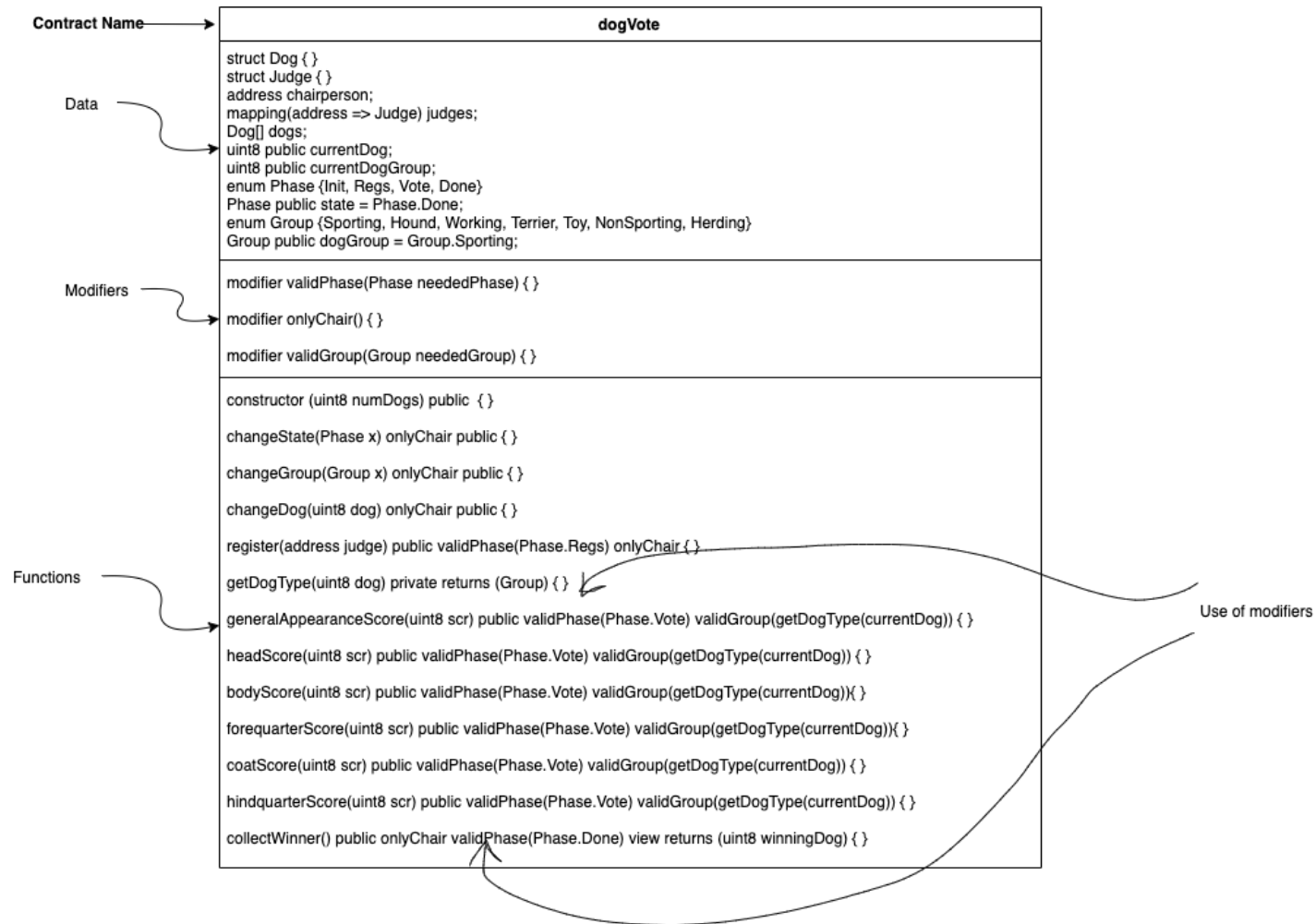
Modifiers: validPhase(), onlyChair(), validGroup()

Functions: changeState(), changeGroup(), changeDog(), register(), getDogType(), generalAppearanceScore(), headScore(), bodyScore(), forequarterScore(), coatScore(), hindquarterScore(), collectWinner();

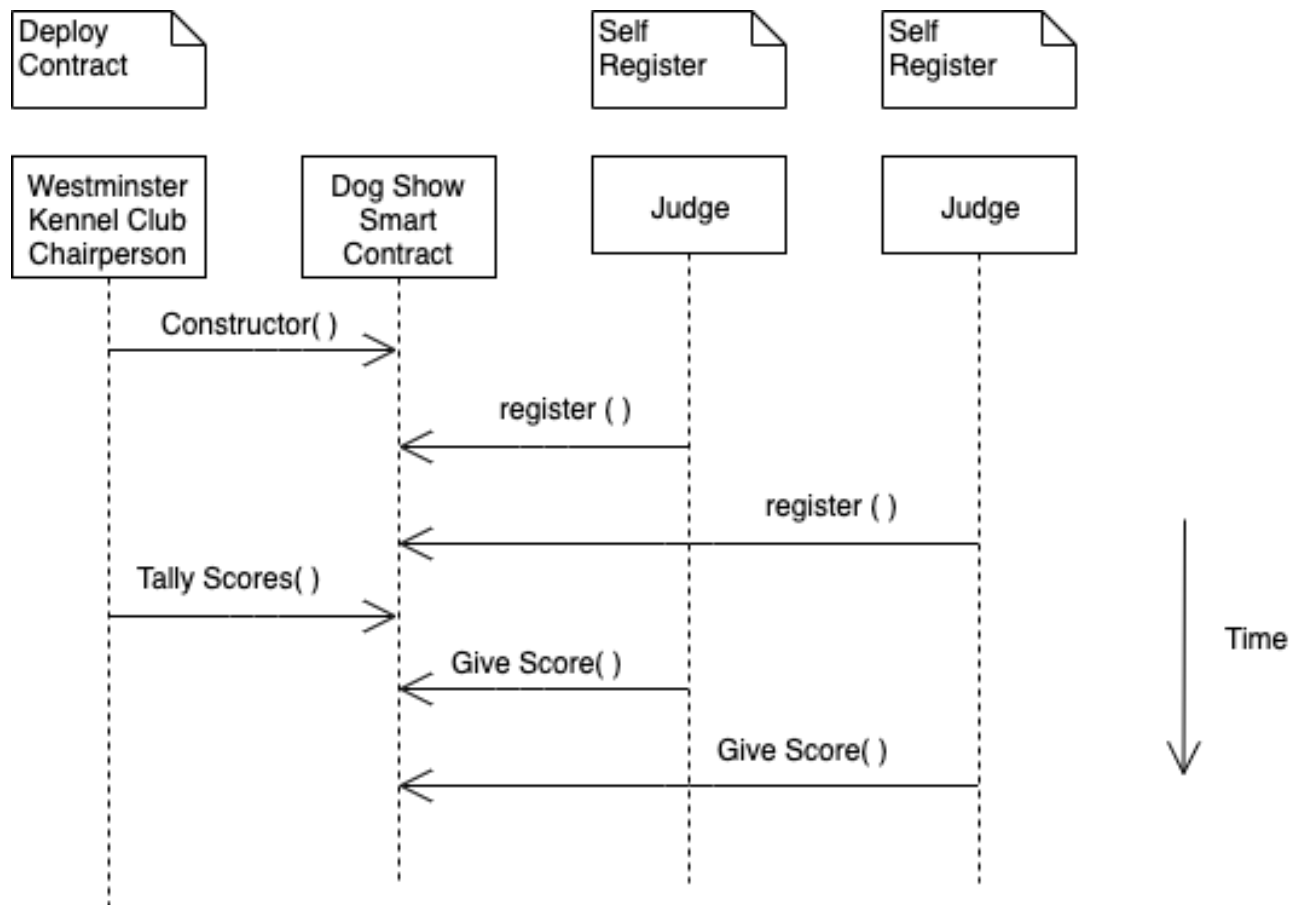
Use Case Diagram:



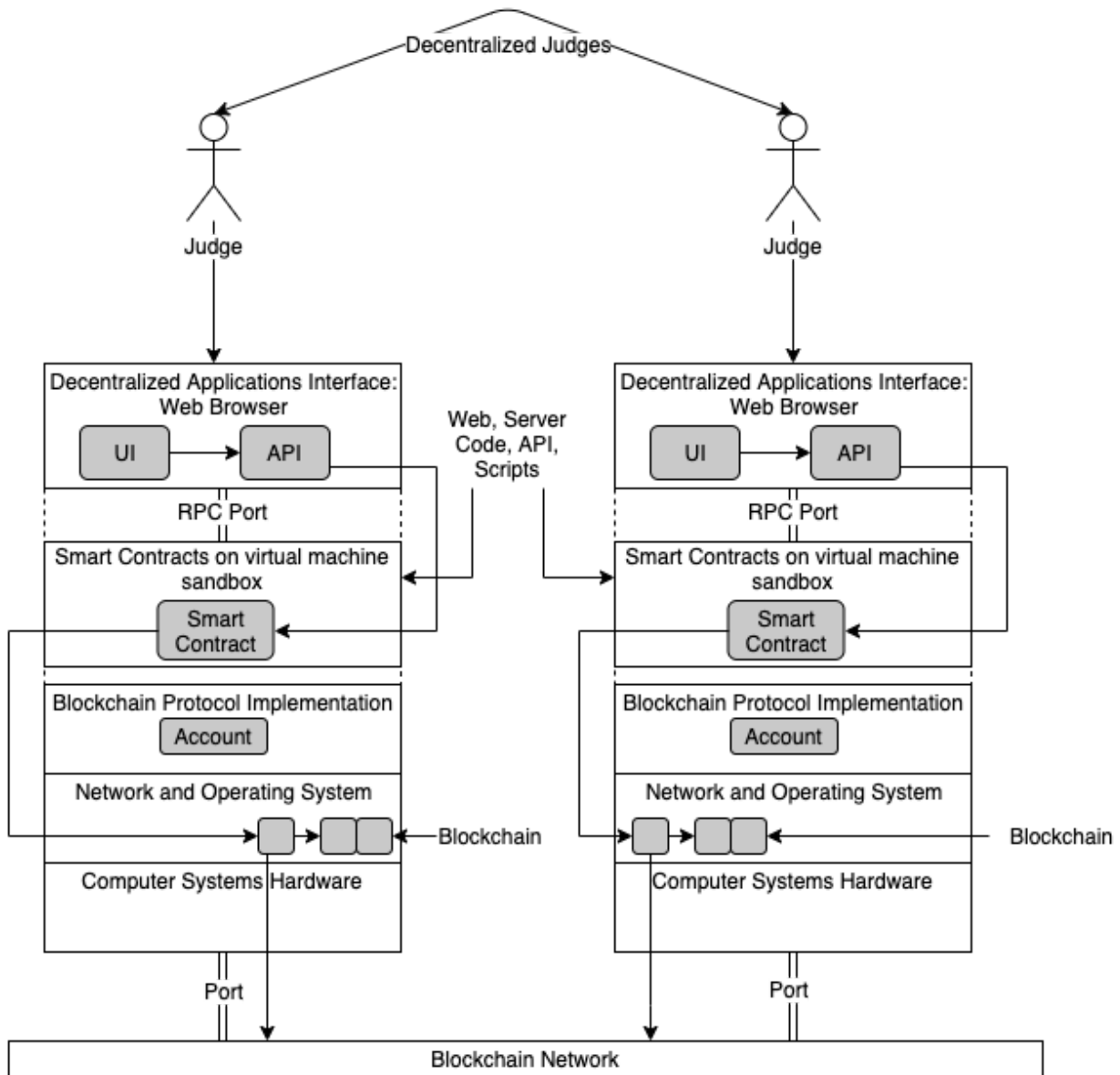
Contract Diagram:



Sequence Diagram:



Architecture Diagram:



Workflow/Readme:

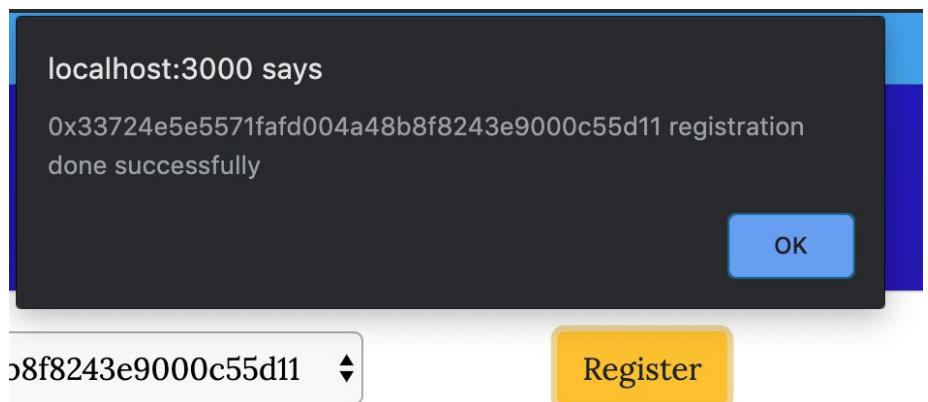
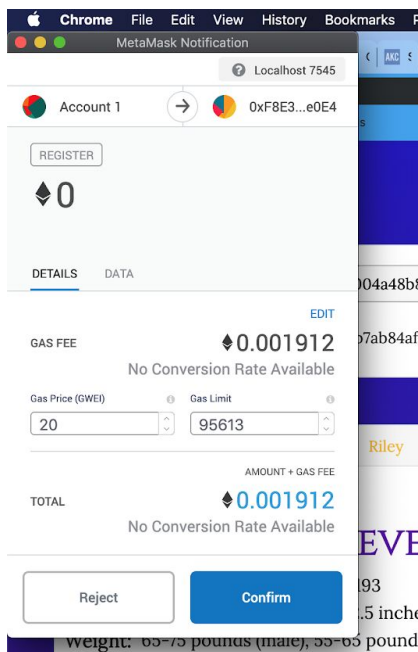
Instructions on Running The Application

1. Ensure you have installed node.js, npm, metamask and ganache
2. Click on Ganache and quickstart it
3. In terminal, navigate to app folder:

```
cd judging-contract
truffle compile
truffle migrate --reset
```

```
cd ..
cd judging-app
npm start
```

4. Open an internet browser and navigate to localhost:3000 you should be able to see the app now
5. Ensure your metamask is connected to the custom RPC at the URL:
http://127.0.0.1:7545
6. Connect to Metamask by logging in with the seed phrase in Ganache, metamask should be connected to the app now
7. Reset accounts 1, 2, and 3 in metamask
8. Register whichever accounts are voting



9. Place scores and submit

Dog Name: **LOLA**

GENERAL APPEARANCE:

BODY:

COAT:

Localhost 7545

Account 1 → 0x6755...956c

CONTRACT INTERACTION

0

DETAILS DATA

EDIT

GAS FEE 0.001351

No Conversion Rate Available

Gas Price (GWEI) 20 Gas Limit 67557

AMOUNT + GAS FEE

TOTAL 0.001351

No Conversion Rate Available

COAT:

localhost:3000 says

0xb7ab84af4a074930c12ab35af55bce5b5f81326f voting done successfully

10. Switch account to change judge and place votes again

My Accounts Account 1 Log out

Account 1 99.923812 ETH

Account 2 100 ETH

Account 3 100 ETH

Account 4

Create Account

Import Account

Register -0 ETH

Connect Hardware Wallet

Info & Help

Settings

11. Click Declare Winner to calculate the winner:

