PIADINA TOKEN PTK

Implement a dAPP in Web3

dApp that reward in PTK Token the user that prove with a survery form the purchase in the restaurants

PTK Reward

Reward the user with 1PTK Token for 10 euros of purchase in the shop

Mongo DB

Register in Mongo DB e-mail user that request the reward in PTK Token

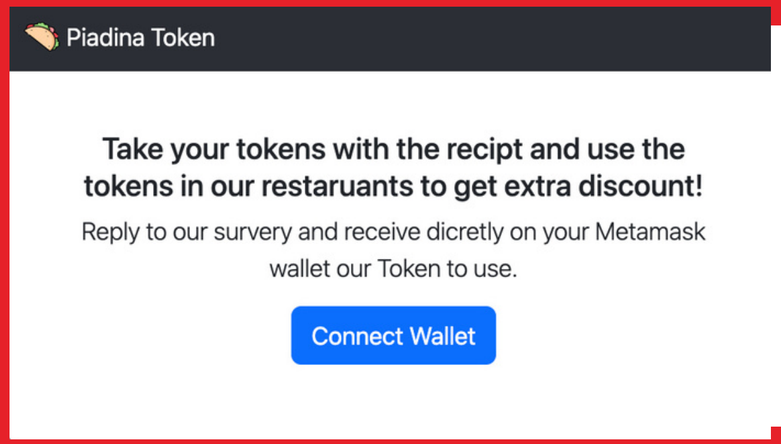
REQUEST:

Project Requests:

- At least one Smart Contract must be created that implements events;
- The code that interacts with the created Smart Contract must be written either in Python;
- There must be unit tests capable of testing the functioning of what has been created (Truffle).

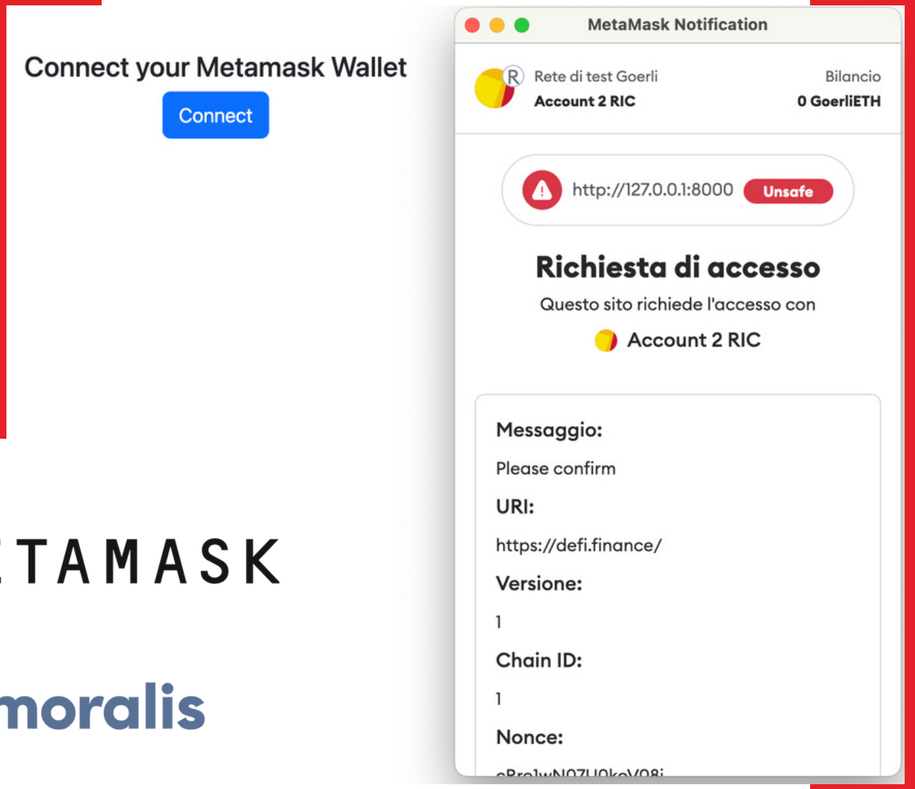
IMPLEMENTATIONS:

Django App and Moralis/Metamask Login



Django

Django Web app permitt to log-in the costumer and reply to a survery form to reward token due to the last receipt received from the restaurants



Moralis and Metamask

In order to allows you to easily integrate Web3 functionality into our Python applications we implemented Moralis,Python SDK, that permit the customer to login with Metamask

METAMASK

moralis

PROGRAMMING AND TESTING

Truffle and Ganache to test PTK

Truffle

Build, Deply and Test PTK Token with Truffle the development environment, testing framework and asset pipeline for blockchains using the Ethereum Virtual Machine (EVM)

```
Contract: PiadinaToken
  ✔ Assert true
  ✔ Retunr total Supply of 1000000000000000000
  ✔ Trasnfert of 100 PTK (106ms)


3 passing (194ms)
```

Ganache

Tested PTK Token on Ganache, a personal Ethereum blockchain which you can use to run tests, execute commands, and inspect state while controlling how the chain operates.

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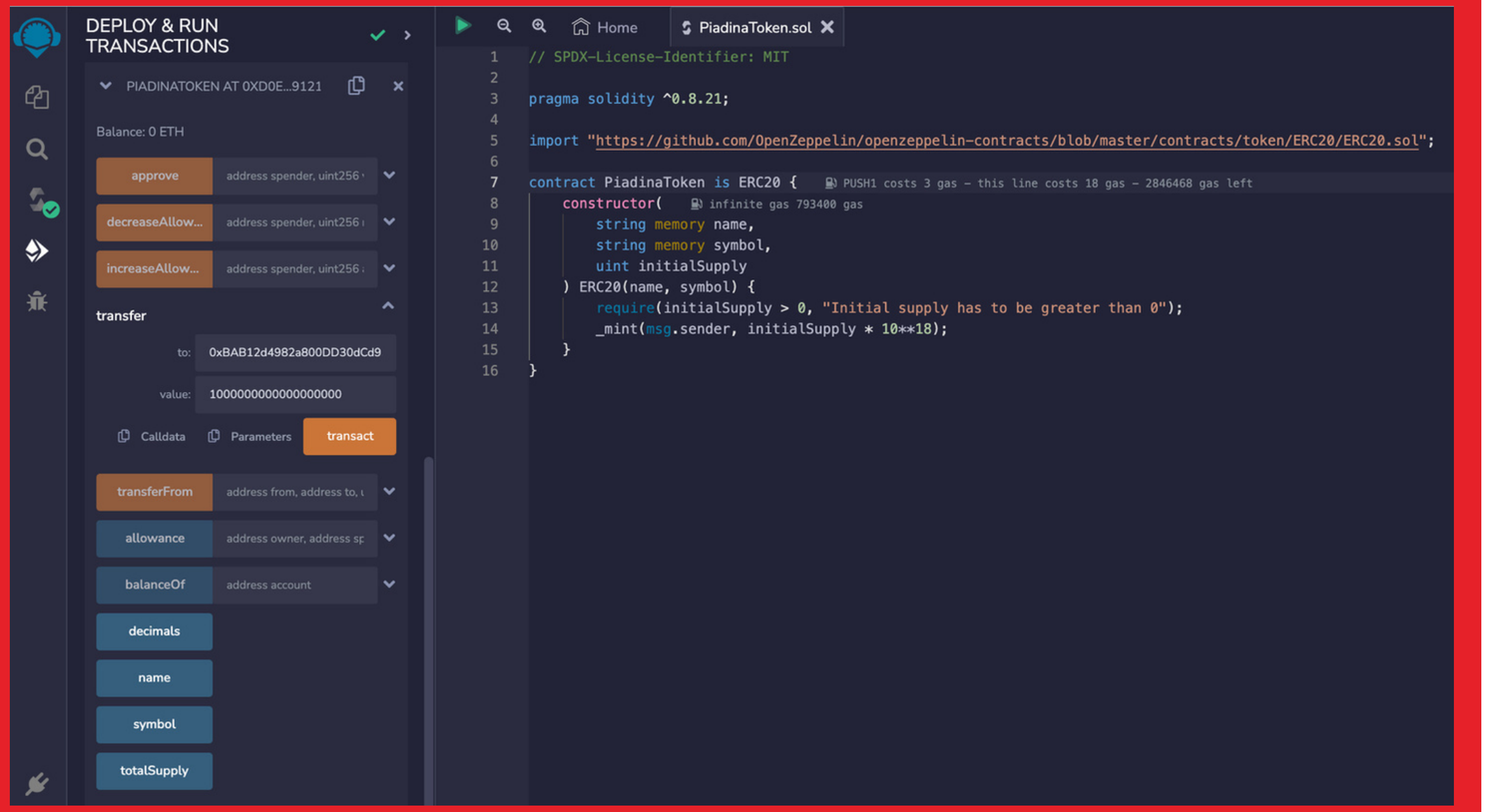
Programming and Deploying

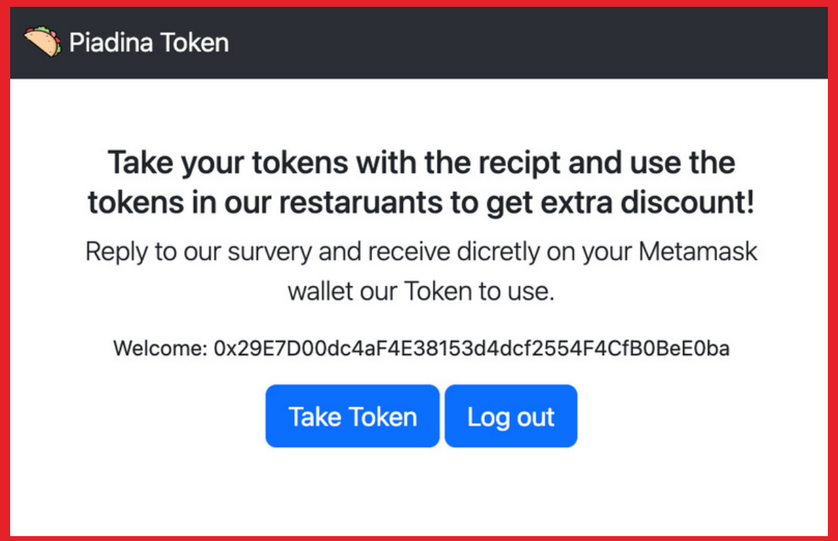
Beef Burger

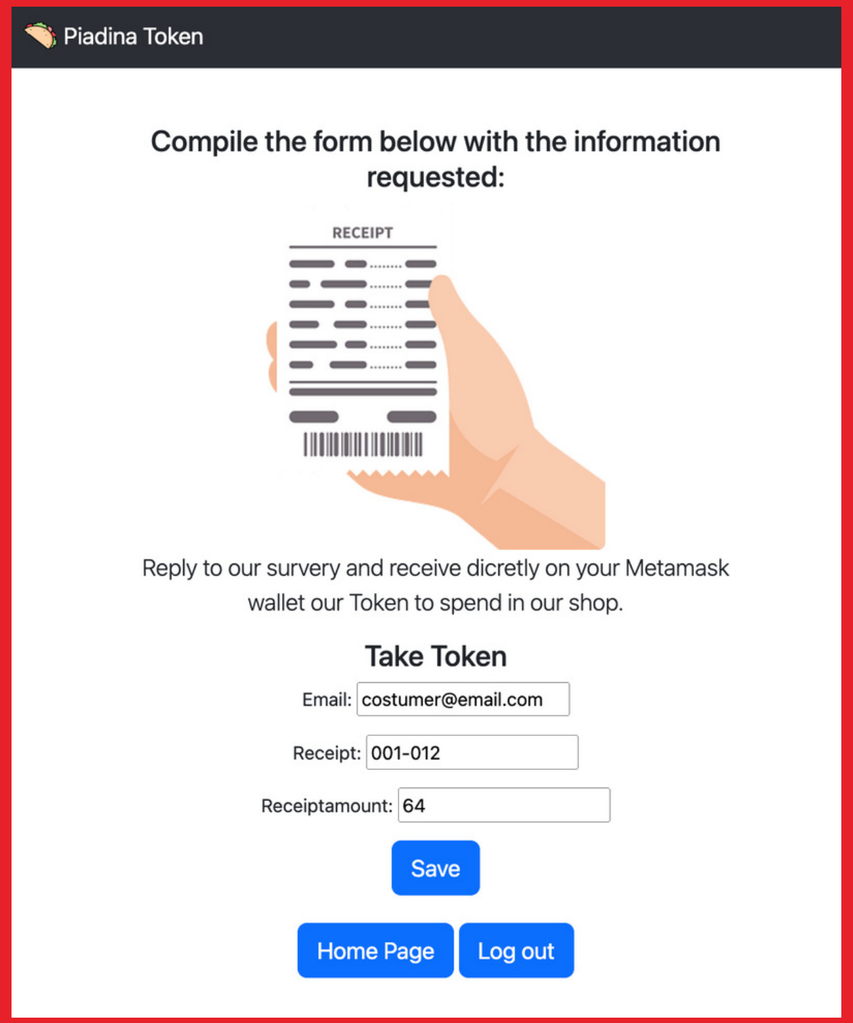
Chicken, tommato, green salad, pita, ketchup, maionese, cucumber...



Log in:

The costumer is correctly loggein in with MetaMask account and could compile the Survery Form with the information of the last receipt:





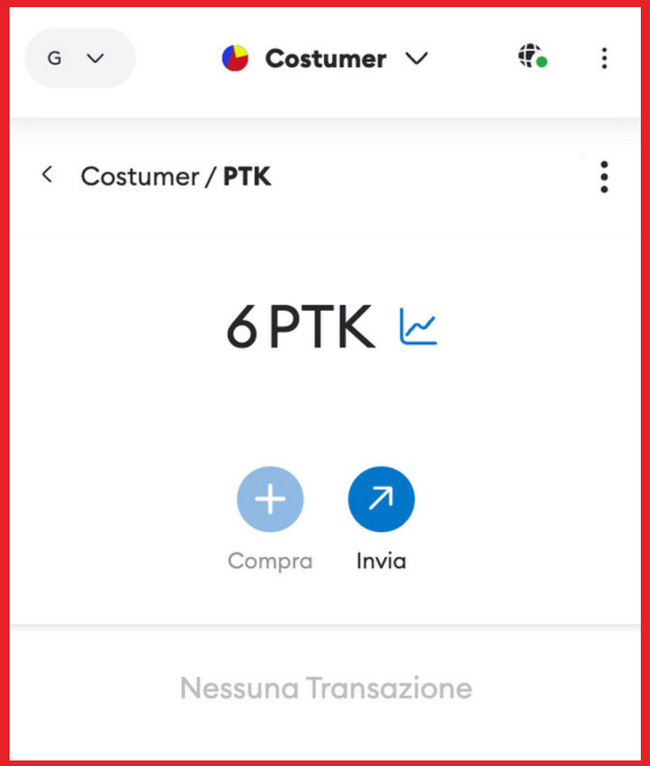
Smart Contract / web3

The costumer inserted all the information about the last receipt that

TOKEN

Receive the token in Metamask wallet

The costumer received directly the PTK Token in MetaMask Wallet and they could you, for example, to have a special offer in restaurants chain.



PROGETTO ETHEREUM WEB3 DI MATTEO FOSCHI

Thank for your attention

Link of the project in Git Hub

https://github.com/matteo-foschi/ethweb3

Personal Link

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