



PIADINA TOKEN PTK

Implement a dAPP in Web3

dApp that reward in PTK Token the user that prove with a survey 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).



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IMPLEMENTATIONS:

Django App and Moralis/Metamask Login

 Piadina Token

Take your tokens with the receipt and use the tokens in our restaruants to get extra discount!

Reply to our survery and receive dicretly on your Metamask wallet our Token to use.

Connect Wallet

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

Connect your Metamask Wallet

Connect

Moralis and Metamask

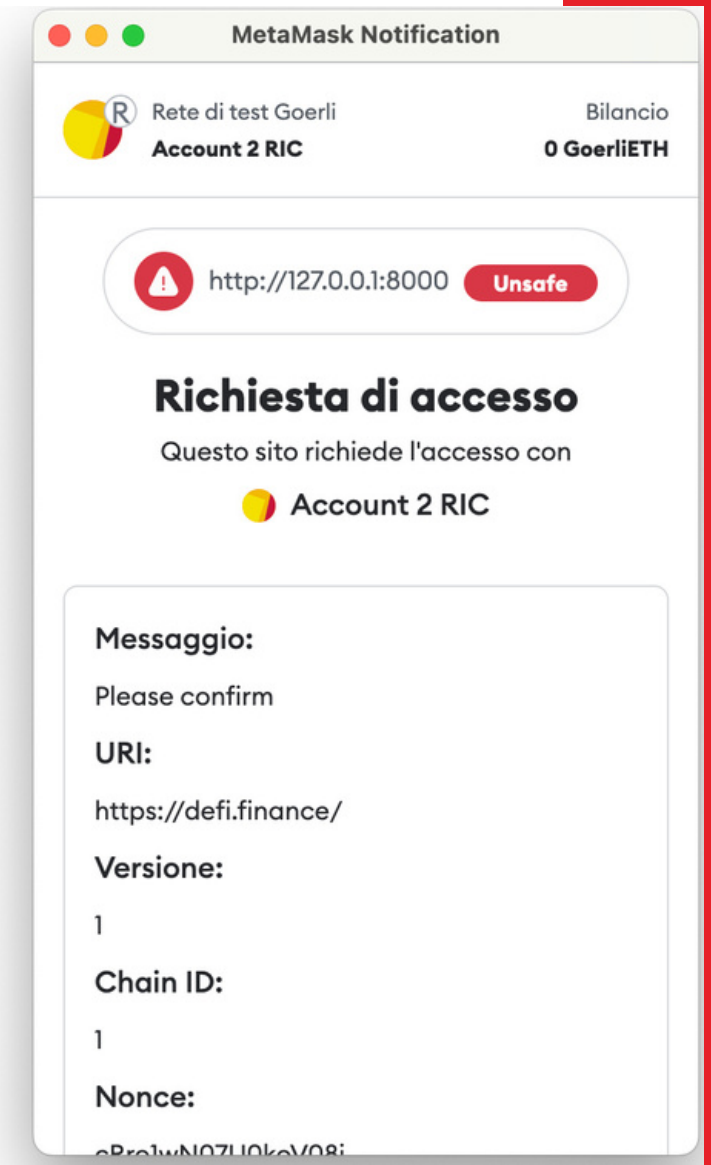
In order to allows you to easily integrate Web3 functionality into our Python applications we implemented Moralis,Python SDK, that permit the customer to login with Metamask



METAMASK



moralis



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PROGRAMMING AND TESTING

Truffle and Ganache to test PTK



Truffle

Build, Deploy 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
  ✓ Return total Supply of 10000000000000000000
  ✓ Transfer 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...



DEPLOY & RUN
TRANSACTIONS

PIADINATOKEN AT 0XD0E...9121

Balance: 0 ETH

approve

address spender, uint256

decreaseAllow...

address spender, uint256

increaseAllow...

address spender, uint256

transfer

to: 0xBAB12d4982a800DD30dCd9

value: 1000000000000000000

Calldata

Parameters

transact

transferFrom

address from, address to, u

allowance

address owner, address sp

balanceOf

address account

decimals

name

symbol

totalSupply

1

// SPDX-License-Identifier: MIT

2

3

pragma solidity ^0.8.21;

4

5

import "https://github.com/OpenZeppelin/openzeppelin-contracts/blob/master/contracts/token/ERC20/ERC20.sol";

6

7

contract PiadinaToken is ERC20 {

8

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16



Log in:

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


 Piadina Token

Take your tokens with the recipt and use the tokens in our restaruants to get extra discount!


Reply to our survery and receive dicretly on your Metamask wallet our Token to use.

Welcome: 0x29E7D00dc4aF4E38153d4dcf2554F4CfB0BeE0ba

Take TokenLog out

 Piadina Token

Compile the form below with the information requested:



Reply to our survery and receive dicretly on your Metamask wallet our Token to spend in our shop.

Take Token

Email:

Receipt:

Receiptamount:

Save

Home PageLog out

Smart Contract / web3

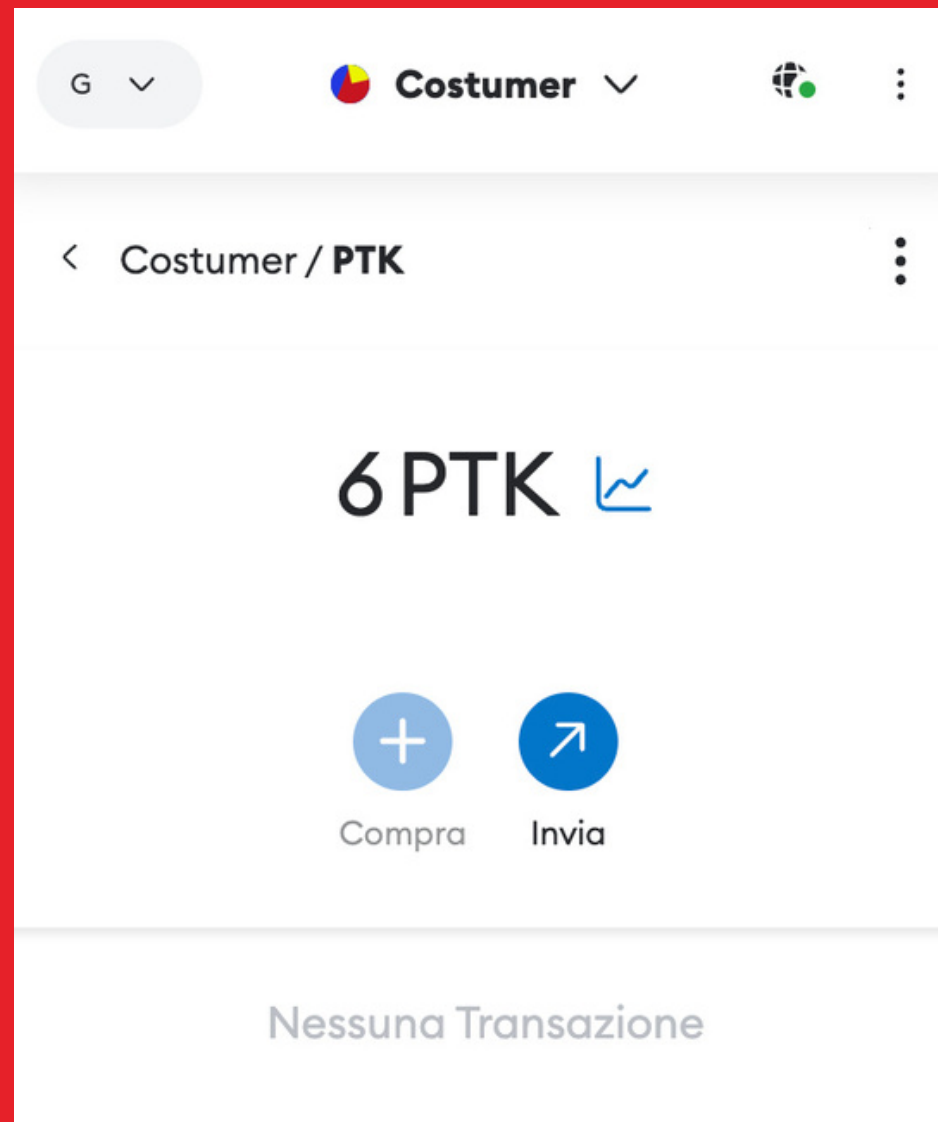


The costumer inserted all the information about the last receipt that

TOKEN

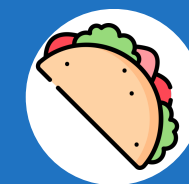
Receive the token in Metamask wallet

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



Offer Of The Month

Free Delivery

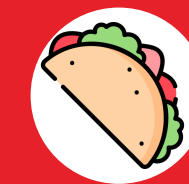


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Get It Fast

Take 15% Discount!



5 TOKEN PTK



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

123 - 456 - 7890



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