

EVENT TICKETING DAPP  
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**Overview :**

To create a decentralized application that allows users to mint, buy, sell, and verify event tickets as NFTs on the blockchain, ensuring transparency, authenticity, and ease of use.

**GITHUB:**

<https://github.com/prasamsa12/event-ticketing-dapp.git>

**Introduction**

The traditional event ticketing system often faces issues such as fraud, counterfeit tickets, and a lack of transparency in ownership and transfer processes. This project aims to address these challenges by leveraging blockchain technology to build an Event Ticketing DApp. The DApp will allow event organizers to mint tickets as NFTs, which can be bought and sold in a decentralized marketplace. The use of smart contracts will ensure secure transactions and verification of ticket ownership.

**Technology Stack**

- **Blockchain:** Ganache
- **Smart Contracts:** Solidity (OpenZeppelin for ERC721)
- **Frontend:** React.js
- **Blockchain Interaction:** Ethers.js
- **Development Tools:** Hardhat for local testing and deployment

## Step 1:successfully compiled solidity files:

```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.22000.2538]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Admin>cd desktop

C:\Users\Admin\Desktop>cd prasamsa-event

C:\Users\Admin\Desktop\prasamsa-event>npx hardhat clean
(node:7332) [DEP0040] DeprecationWarning: The 'punycode' module is deprecated. Please use a userland alternative instead.
(Use 'node --trace-deprecation ...' to show where the warning was created)

C:\Users\Admin\Desktop\prasamsa-event>npx hardhat compile
(node:12296) [DEP0040] DeprecationWarning: The 'punycode' module is deprecated. Please use a userland alternative instead.
(Use 'node --trace-deprecation ...' to show where the warning was created)
Solidity 0.8.19 is not fully supported yet. You can still use Hardhat, but some features, like stack traces, might not work correctly.

Learn more at https://hardhat.org/reference/solidity-support

Compiling 3 files with 0.8.19
Solidity compilation finished successfully

C:\Users\Admin\Desktop\prasamsa-event>npx hardhat node
(node:19784) [DEP0040] DeprecationWarning: The 'punycode' module is deprecated. Please use a userland alternative instead.
(Use 'node --trace-deprecation ...' to show where the warning was created)
Started HTTP and WebSocket JSON-RPC server at http://127.0.0.1:8545/

Accounts
=====

WARNING: These accounts, and their private keys, are publicly known.
Any funds sent to them on Mainnet or any other live network WILL BE LOST.

Account #0: 0xf39fd6e51aad88f6f4ce6ab8827279cfff9d2266 (10000 ETH)
Private Key: 0xac0974bec39a17e36ba4a0b4d238ff944bacb478cbed5efcae784d7bf4f2ff80

Account #1: 0x70997970c51812dc3a010c7d01b50e8d17dc79c8 (10000 ETH)
Private Key: 0x59c6995e998f97a5a004496f0945389dc9e86dae88c7a8412f4603b6b78690d

Account #2: 0x3c44cdddb6a900fa2b585dd299e03d12fa4293bc (10000 ETH)
Private Key: 0x5de4111afa1a4b94908f83103eb1f1706367c2e68ca870fc3fb9a804cdab365a

Account #3: 0x90f79bfe6b2c4f80365e785982e1f01e93b006 (10000 ETH)
Private Key: 0x7c852118294e51e653712a81e0500ef419141751be58f60c371e15141b007a6
```

## Step 2:successfully depolyed and got event ticketing service and greeter address

```
Windows PowerShell
Microsoft Windows [Version 10.0.22000.2538]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Admin>cd desktop

C:\Users\Admin\Desktop>cd prasamsa-event

C:\Users\Admin\Desktop\prasamsa-event>npx hardhat run scripts/deploy.js --network localhost
(node:13280) [DEP0040] DeprecationWarning: The 'punycode' module is deprecated. Please use a userland alternative instead.
(Use 'node --trace-deprecation ...' to show where the warning was created)
(node:18448) [DEP0040] DeprecationWarning: The 'punycode' module is deprecated. Please use a userland alternative instead.
(Use 'node --trace-deprecation ...' to show where the warning was created)
EventTicketing deployed to: 0x9f46736679d2D9a65F0992F2272dE9f3c7fa6e0
Greeter deployed to: 0xCf7Ed3AccA5a467e9e704C703E8087F634f80Fc9

C:\Users\Admin\Desktop\prasamsa-event>npm run start

> full-stack-dapp@0.1.0 start
> react-scripts start

Browserslist: caniuse-lite is outdated. Please run:
  npx browserslist@latest --update-db
  Why you should do it regularly: https://github.com/browserslist/browserslist#browsers-data-updating
(node:14100) [DEP_WEBPACK_DEV_SERVER_ON_AFTER_SETUP_MIDDLEWARE] DeprecationWarning: 'onAfterSetupMiddleware' option is deprecated. Please use the 'setupMiddlewares' option.
(Use 'node --trace-deprecation ...' to show where the warning was created)
(node:14100) [DEP_WEBPACK_DEV_SERVER_ON_BEFORE_SETUP_MIDDLEWARE] DeprecationWarning: 'onBeforeSetupMiddleware' option is deprecated. Please use the 'setupMiddlewares' option.
Starting the development server...
Compiled successfully!

You can now view full-stack-dapp in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://192.168.56.1:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

assets by path static/js/*.js 2.46 MiB
  asset static/js/bundle.js 2.45 MiB [emitted] (name: main) 1 related asset
  asset static/js/node_modules/web-vitals_dist_web-vitals_js.chunk.js 6.94 KiB [emitted] 1 related asset
  asset index.html 1.67 KiB [emitted]
```

## Step 3:npm start and I used react app in my project

```
Windows PowerShell
(node:14100) [DEP_WEBPACK_DEV_SERVER_ON_BEFORE_SETUP_MIDDLEWARE] DeprecationWarning: 'onBeforeSetupMiddleware' option is deprecated. Please use the 'setupMiddlewares' option.
Starting the development server...
Compiled successfully!

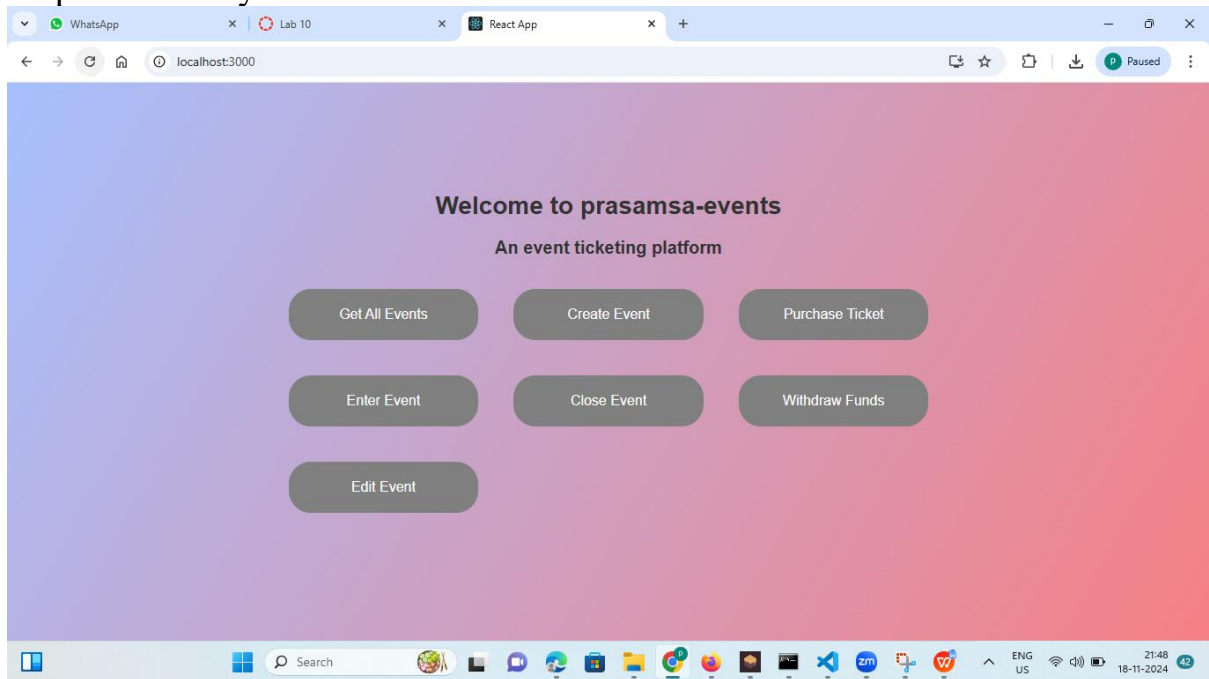
You can now view full-stack-dapp in the browser.

Local:      http://localhost:3000
On Your Network:  http://192.168.56.1:3000

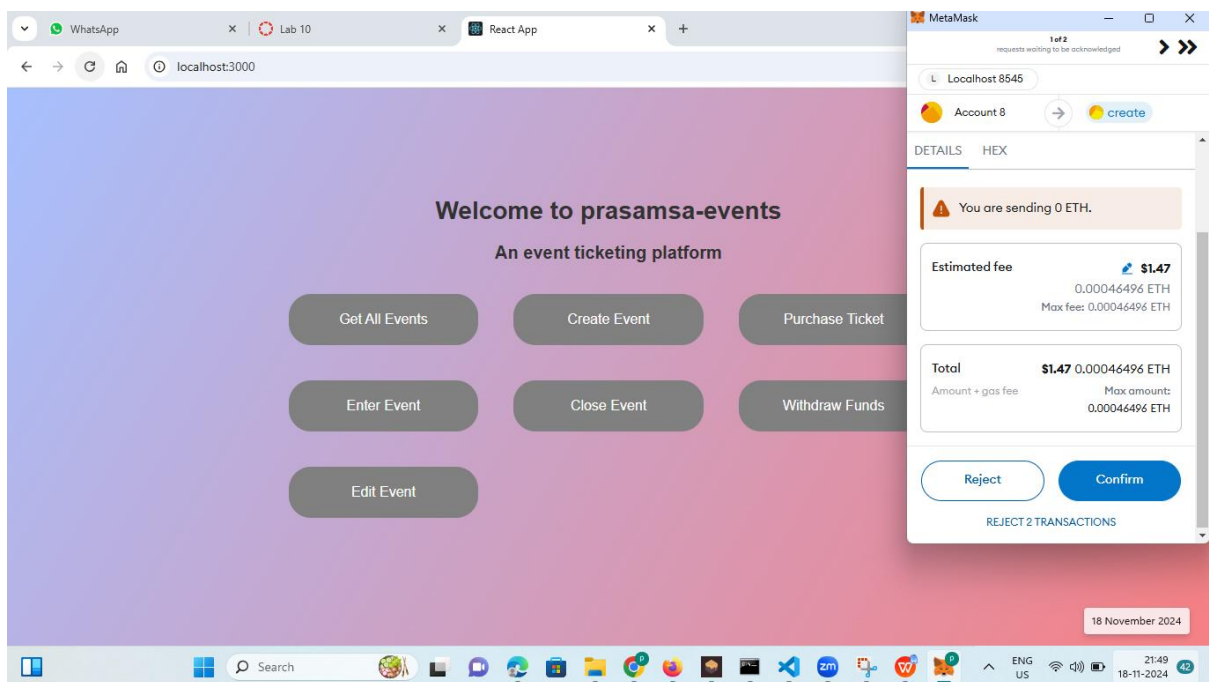
Note that the development build is not optimized.
To create a production build, use npm run build.

assets by path static/js/*.js 2.46 MiB
  asset static/js/bundle.js 2.45 MiB [emitted] (name: main) 1 related asset
  asset static/js/node_modules_web-vitals_dist_web-vitals_js.chunk.js 6.94 KiB [emitted] 1 related asset
asset index.html 1.67 KiB [emitted]
asset asset-manifest.json 458 bytes [emitted]
cached modules 2.4 MiB [cached] 247 modules
runtime modules 32.6 KiB 18 modules
./src/App.js 5.63 KiB [built] [code generated]
webpack 5.68.0 compiled successfully in 7766 ms
```

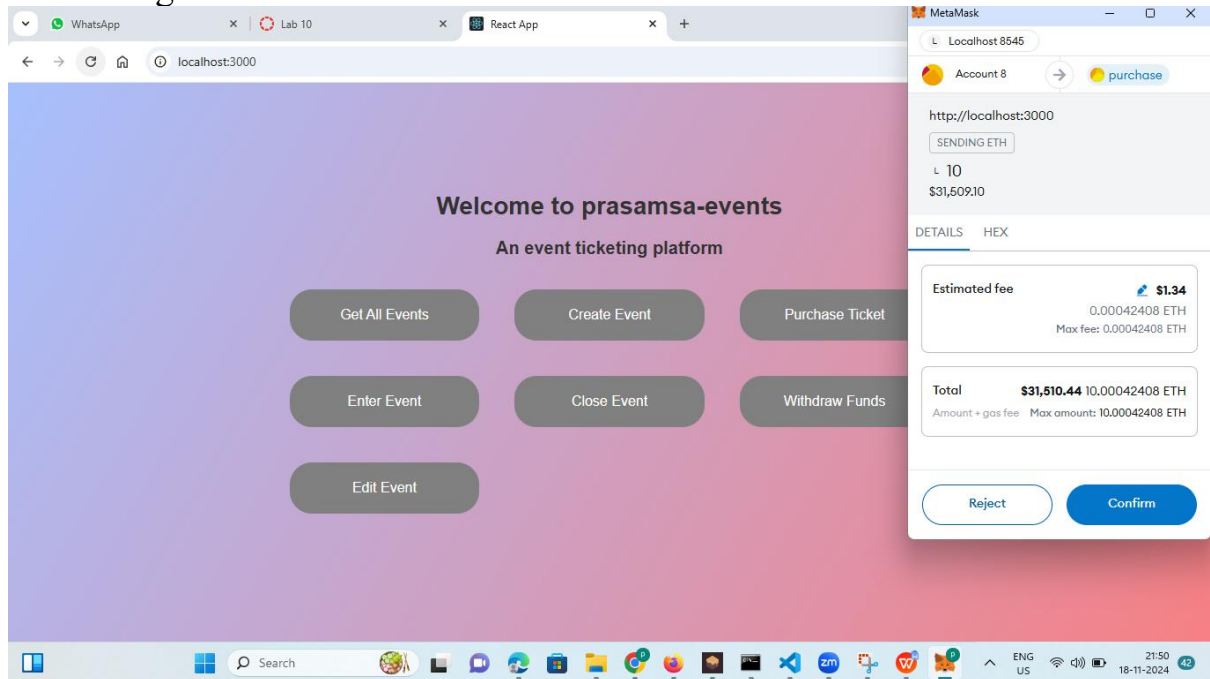
## Step 4: this is my frontend



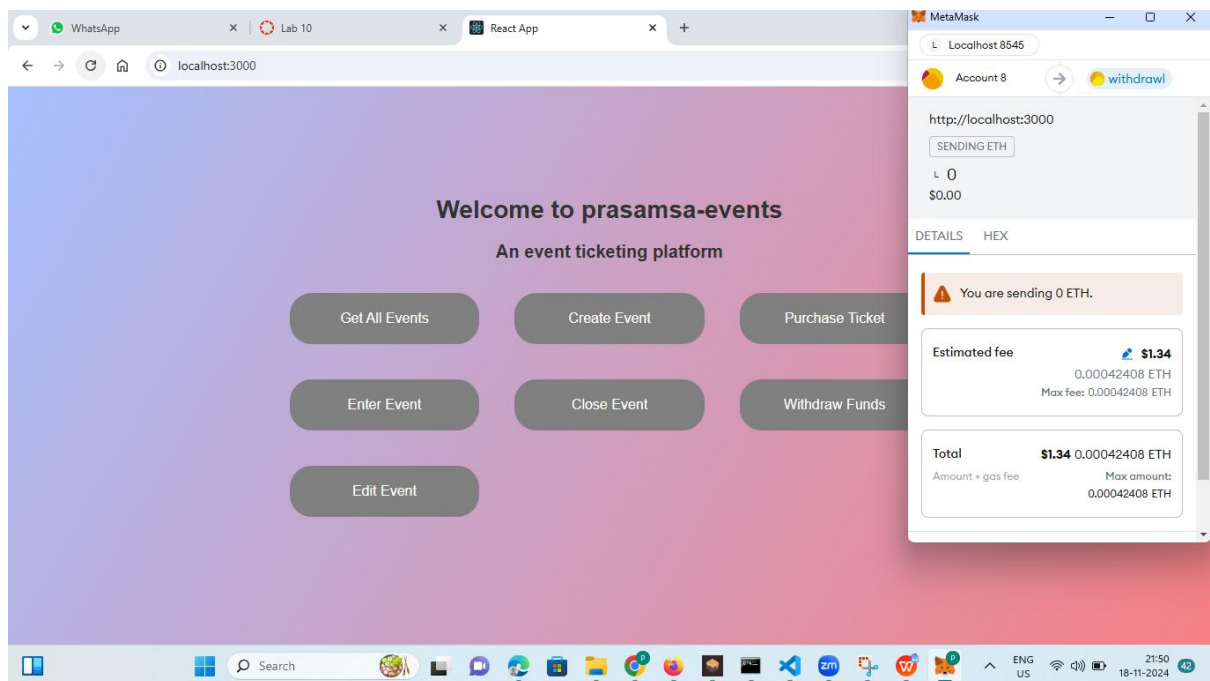
## Creating event



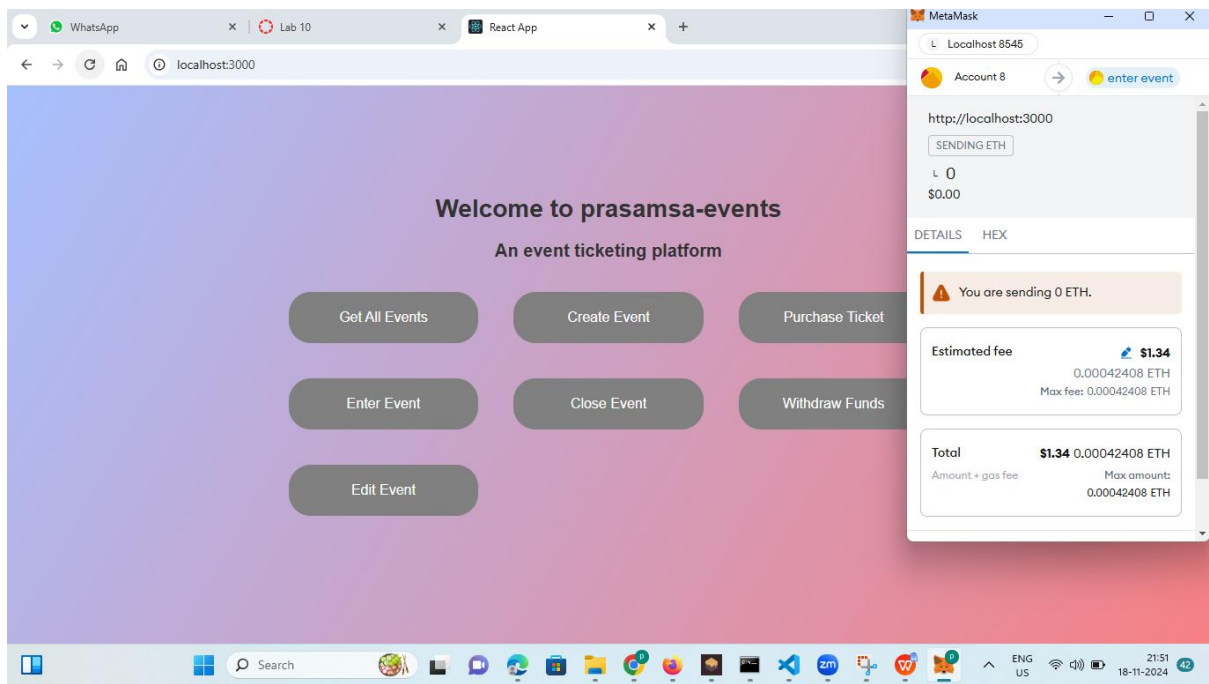
## Purchasing ticket



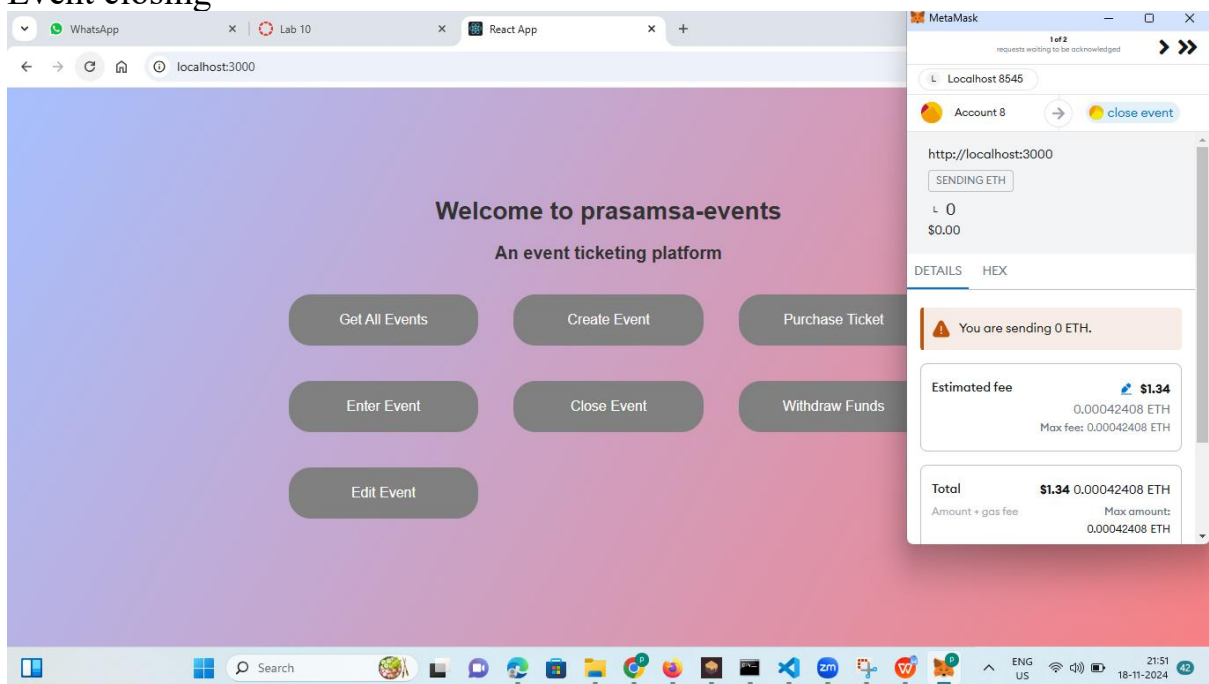
## Withdraw funds



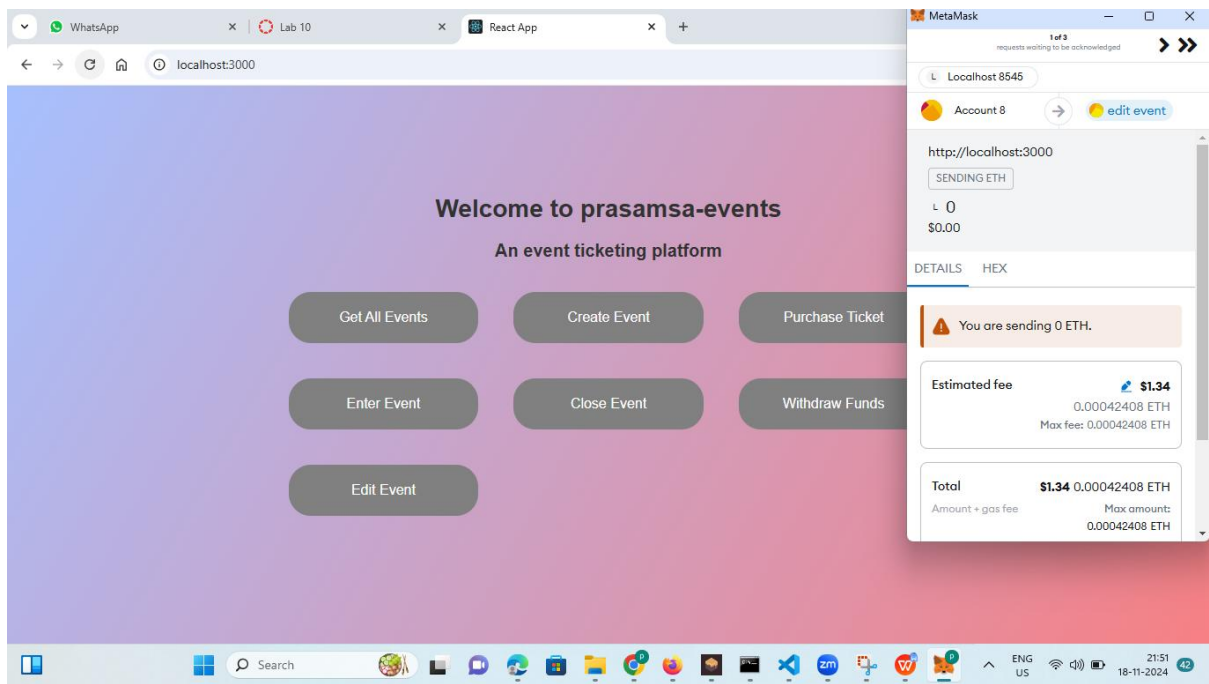
## Check-In to the event



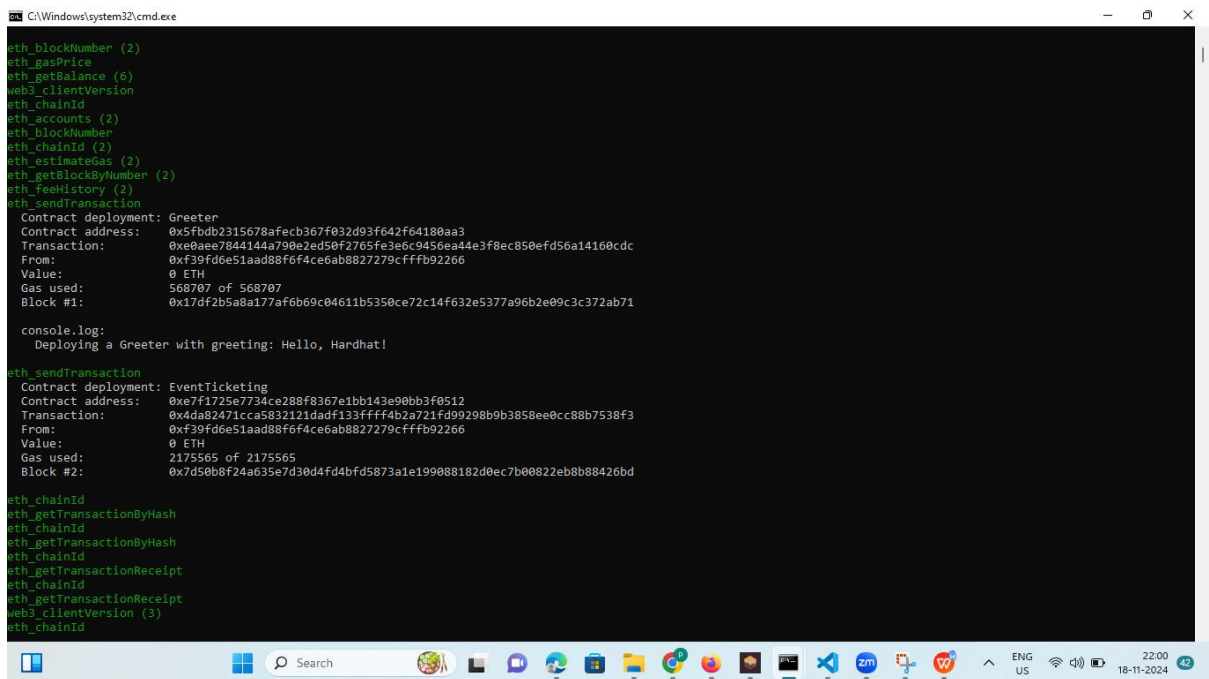
## Event closing







## Console



```
C:\Windows\system32\cmd.exe
web3_clientVersion (3)
eth_chainId
eth_accounts (2)
eth_blockNumber
eth_chainId (2)
eth_estimateGas (2)
eth_getBlockByNumber (2)
eth_feeHistory (2)
eth_sendTransaction
  Contract deployment: EventTicketing
  Contract address: 0x9fe46736679d2d9a65f0992f2272de9f3c7fa6e0
  Transaction: 0x22e8c1c6384f1b3f3bde68b30d485690065a646d9f156ef073f874405004e633
  From: 0xf39fd6e51aad88f6f4ce6ab8827279cfff9b92266
  Value: 0 ETH
  Gas used: 2175565 of 2175565
  Block #3: 0x586dbf6e6c93122800dc062cb434543bc71ebab783ddcf1ff2fe5ed97205a0e
eth_sendTransaction
  Contract deployment: Greeter
  Contract address: 0xc7ed3acca5a467e9e704c703e8d87f634fb0fc9
  Transaction: 0x450344e22edd98239d61c30caf6834ef2de239b999d44ce2657f943f5c027d0b
  From: 0xf39fd6e51aad88f6f4ce6ab8827279cfff9b92266
  Value: 0 ETH
  Gas used: 568707 of 568707
  Block #4: 0xaa96761f3f1842189fb65ed4184ed72214ab89d5f5c6f2713047a3b02aa8ed3f
console.log:
  Deploying a Greeter with greeting: Hello, Hardhat!
eth_chainId
eth_getTransactionByHash
eth_chainId
eth_getTransactionByHash
eth_chainId
eth_getTransactionReceipt
eth_chainId
eth_getTransactionReceipt
```