

# Event in Solidity

## Introduction

The **Event Example** smart contract is a basic example demonstrating how to register users on the blockchain using a struct, mapping, and event. When a user registers, their name and age are stored, and an event is emitted for off-chain tracking.

Additionally, we deployed this contract today on the **Sepolia Testnet**.

Contract address => **0xB61fC8870c9F6FA69B6C7c3C79621137c7F85C17**

The screenshot shows the REMIX IDE interface. On the left, the 'DEPLOY & RUN TRANSACTIONS' panel displays the deployed contract 'EVENT\_EXAMPLE AT 0x840...2FF5 (MEMO)'. The 'REGISTER\_USER' function is shown with parameters: username 'Saurabh' and age '25'. The 'users' mapping is visible, showing a user with name 'Saurabh' and age '25'. The 'CALLDATA' section shows the transaction data. On the right, the Solidity code for the 'Event\_Example' contract is displayed, including the event definition, struct, mapping, and the 'register\_user' function.

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity ^0.8.0;
3
4 contract Event_Example{
5
6     event new_user_register(address indexed user, string user_name);
7
8     struct User {
9         string name;
10        uint age;
11    }
12
13    mapping (address=>User) public users;
14
15    function register_user(string memory _username, uint _age) public {
16        User storage New_user = users[msg.sender];
17        New_user.name = _username;
18        New_user.age = _age;
19
20        emit new_user_register (msg.sender,_username);
21    }
```

The screenshot shows the Etherscan Sepolia Testnet page for the contract address **0x3Ca52f62e32751791eD5637A08d1063Cb5852c8D**. The page displays the contract's overview, including its ETH balance (62.30409797940297174 ETH) and token holdings (\$0.00 (4 Tokens)). The 'More Info' section shows the contract was funded by **0x9C193FB0...2489437a8** 2 years and 248 days ago. The 'Transactions' section shows the latest transactions, including the deployment transaction (0x871a43540...) and a transfer transaction (0xee988f060f3...).

Transaction Hash	Method	Block	Age	From	To	Amount	Txn Fee
0x871a43540...	OUT	9808486	3 hrs ago	0x3Ca52f62...Cb5852c8D	Create: Event_Example	0 ETH	0.00075768
0xee988f060f3...	Transfer	9795045	2 days ago	0x42645cE4...Ea670f9b2	0x3Ca52f62...Cb5852c8D	0.05 ETH	0.00000002

Remix - Ethereum IDE

Address: 0xb61fc887...7c7f85c17

https://sepolia.etherscan.io/address/0xb61fc8870c9f0fa69b6c7c3c79621137c7f85c17#code

Search by Address / Txn Hash / Block / Token

CodeRead ContractWrite Contract

Search Source Code

Contract Source Code Verified (Exact Match)

Contract Name: **Event\_Example**Optimization Enabled: **No with 200 runs**

Compiler Version **v0.8.18+commit.87f61d96**Other Settings: **default evmVersion**

Contract Source Code (Solidity [Standard Json-Input](#) format)

File 1 of 1: event.sol

IDEMore Options

Outline

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13    mapping (address=>User) public users;
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15    function register_user(string memory _username, uint _age) public {
16        User storage New_user = users[msg.sender];
17        New_user.name = _username;
18        New_user.age = _age;
19
20        emit new_user_register (msg.sender,_username);
21    }
22 }
```

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