

# interact.php

```
<?php
require 'vendor/autoload.php';

use Web3\Web3;
use Web3\Contract;
use Web3\Providers\HttpProvider;
use Web3\RequestManagers\HttpRequestManager;

$web3 = new Web3(new HttpProvider(new HttpRequestManager('http://127.0.0.1:8545', 10))); // Ganache's default port

$contractAddress = '0x2f881c9f70228f2c7a5e56637c6b7f402a8a3785'; // Address of the deployed contract
$abi = [
    {
        "inputs": [
            {
                "internalType": "uint256",
                "name": "initialValue",
                "type": "uint256"
            }
        ],
        "stateMutability": "nonpayable",
        "type": "constructor"
    },
    {
        "inputs": [],
        "name": "storedData",
        "outputs": [
            {
                "internalType": "uint256",
                "name": "",
                "type": "uint256"
            }
        ],
        "stateMutability": "view",
        "type": "function",
        "constant": true
    },
    {
        "inputs": [
            {
                "internalType": "uint256",
                "name": "x",
                "type": "uint256"
            }
        ],
        "name": "set",
        "outputs": [],
        "stateMutability": "nonpayable",
        "type": "function"
    },
];
```

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{
    "inputs": [],
    "name": "get",
    "outputs": [
        {
            "internalType": "uint256",
            "name": "",
            "type": "uint256"
        }
    ],
    "stateMutability": "view",
    "type": "function",
    "constant": true
}]; // ABI of the SimpleStorage contract

// Initialize the contract
$contract = new Contract($web3->getProvider(), $abi);

// Call the 'get' function to retrieve the stored value
$contract->at($contractAddress)->call('get', function ($err, $result) {
    if ($err !== null) {
        echo 'Error: ' . $err->getMessage();
        return;
    }

    echo 'Stored value: ' . $result[0] . PHP_EOL; // Display the stored value
});

// Send a transaction to the 'set' function to change the stored value
$fromAddress = '0x29287263404D9623e7Aae53adc09fDea4898F78a'; // Your account address (from Ganache or Metamask)
$privateKey = '0x2589db93e81ce90247dd834e717e0a86676dd72a09d81b8db99bfe025e5ab516'; // Your private key for signing transactions

$contract->at($contractAddress)->send('set', 500, [
    'from' => $fromAddress,
    'gas' => '0x76c0', // 30400
    'gasPrice' => '0x9184e72a000' // 100000000000000
], function ($err, $tx) {
    if ($err !== null) {
        echo 'Error: ' . $err->getMessage();
        return;
    }

    echo 'Transaction hash: ' . $tx . PHP_EOL;
});
```

# php interact.php

```
C:\WINDOWS\system32\cmd.exe
D:\xampp\htdocs\php-blockchain>php interact.php
Stored value: 0
Transaction hash: 0xf8f5a323d95cc2a007e893a4a2f4ffca93ba1fbeb602df3c8b6681a62f9ebcd3

D:\xampp\htdocs\php-blockchain>php interact.php
Stored value: 0
Transaction hash: 0x2dfed283f0dff2b7ed32322c6aa9a332bfc5e91f063324d97f6c0492e28c87b1

D:\xampp\htdocs\php-blockchain>php interact.php
Stored value: 0
Transaction hash: 0x6cb5198c205a66dad5ac4d55dd53e9edcb458754e295c0bc6846beb44a9117fb

D:\xampp\htdocs\php-blockchain>php interact.php
Stored value: 0
Transaction hash: 0xbf0720ddbe0a8da817d7bd41ea4dcefadef46dcf42164c92cf1d1de06ec8f301

D:\xampp\htdocs\php-blockchain>php interact.php
Stored value: 100
Transaction hash: 0x9e36b165e5645bb0c1c4d61abadf55d5dbe56d7a7b890127af2704e02a161bcd

D:\xampp\htdocs\php-blockchain>
```

# php interact.php (2)

```
C:\WINDOWS\system32\cmd.exe

D:\xampp\htdocs\php-blockchain>php interact2.php
Stored value: 64
Transaction hash: 0x6811cf5462d1710b89ce7bb266e6ab01bcb2a1cc02c8a7917b2a30a1b5edeefa

D:\xampp\htdocs\php-blockchain>php interact2.php
Stored value: 64
Transaction hash: 0xdfe4aeec01d5bd7ff3b26e677c4a584ec9c426eeebf02700da32a09d742f9de2

D:\xampp\htdocs\php-blockchain>php interact2.php
Stored value: 64
Transaction hash: 0x044f1508c4fc589f5f3bbbc73fc720757f7d92b079fd4dd6c3fa147aeb52c1fa

D:\xampp\htdocs\php-blockchain>php interact2.php
Stored value: 64
Transaction hash: 0x7754b86a793647d0f7ea1a45c09e714bc71d423b35ae05753ca706ab56452980

D:\xampp\htdocs\php-blockchain>_
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# Contoh PHP lainnya

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C:\WINDOWS\system32\cmd.exe

D:\xampp\htdocs\php-blockchain>php BiggerContract.php
Transaction Hash: 0x01e479e5d533a62cfff8c5df5d061bfad11619b7bfa471b7f81ae48de70d75d2
Stored Data: 42
Stored Data Length: 1

D:\xampp\htdocs\php-blockchain>php BiggerContract.php
Transaction Hash: 0x58fbd7270fb95d1d3629153e0e3d54237dbc09b1f0b51270ea9dbf6839cf3aad
Stored Data: 42, 50
Stored Data Length: 2

D:\xampp\htdocs\php-blockchain>php BiggerContract.php
Transaction Hash: 0x1699f7853861988174d6f3111ad45790ee94d0f7c7296f2a2589dba83a957a8a
Stored Data: 42, 50, 100
Stored Data Length: 3

D:\xampp\htdocs\php-blockchain>php BiggerContract.php
Transaction Hash: 0xfa3940580a9bf5cee31184bac3691beca6e3e42a4a2d557018e0fd2d7ba040f9
Stored Data: 42, 50, 100, 100
Stored Data Length: 4

D:\xampp\htdocs\php-blockchain>
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