```
SOLIDITY CODE
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.0;
contract BookRegistry {
  address public owner;
  constructor() {
    owner = msg.sender;
  modifier onlyOwner() {
    require(msg.sender == owner, "Only the owner can perform this action");
    _;
  struct Book {
    string title;
    string author;
    address currentOwner;
  mapping(uint256 => Book) public books;
  uint256 public bookCount;
  event BookAdded(uint256 indexed bookId, string title, string author, address indexed owner);
  event OwnershipTransferred(uint256 indexed bookId, address indexed previousOwner, address indexed newOwner);
  function addBook(uint256 registration, string memory _title, string memory _author) external onlyOwner {
```

```
books[registration] = Book(_title, _author, owner);
    bookCount++;
    emit BookAdded(registration, _title, _author, owner);
  function transferOwnership(uint256 registrationId, address _newOwner) external {
    require(_newOwner != address(0), "Invalid address");
    require(_newOwner != books[registrationId].currentOwner, "The new owner is the same as the current owner");
    require(msg.sender == books[registrationId].currentOwner, "Only the current owner can transfer ownership");
    address previousOwner = books[registrationId].currentOwner;
    books[registrationId].currentOwner = newOwner;
    emit OwnershipTransferred(registrationId, previousOwner, _newOwner);
  function getBookDetails(uint256 registrationId) external view returns (string memory, string memory, address) {
    Book memory book = books[registrationId];
    return (book.title, book.author, book.currentOwner);
ABI
"inputs": [],
"stateMutability": "nonpayable",
"type": "constructor"
"anonymous": false,
```

```
"inputs": [
"indexed": true,
"internalType": "uint256",
"name": "bookId",
"type": "uint256"
"indexed": false,
"internalType": "string",
"name": "title",
"type": "string"
"indexed": false,
"internalType": "string",
"name": "author",
"type": "string"
"indexed": true,
"internalType": "address",
"name": "owner",
"type": "address"
"name": "BookAdded",
"type": "event"
"anonymous": false,
"inputs": [
"indexed": true,
"internalType": "uint256",
"name": "bookId",
```

```
"type": "uint256"
"indexed": true,
"internalType": "address",
"name": "previousOwner",
"type": "address"
"indexed": true,
"internalType": "address",
"name": "newOwner",
"type": "address"
"name": "OwnershipTransferred",
"type": "event"
"inputs": [
"internalType": "uint256",
"name": "registration",
"type": "uint256"
"internalType": "string",
"name": "_title",
"type": "string"
"internalType": "string",
"name": "_author",
"type": "string"
```

```
"name": "addBook",
"outputs": [],
"stateMutability": "nonpayable",
"type": "function"
"inputs": [],
"name": "bookCount",
"outputs": [
"internalType": "uint256",
"name": "",
"type": "uint256"
"stateMutability": "view",
"type": "function"
"inputs": [
"internalType": "uint256",
"name": "",
"type": "uint256"
"name": "books",
"outputs": [
"internalType": "string",
"name": "title",
"type": "string"
"internalType": "string",
"name": "author",
```

```
"type": "string"
"internalType": "address",
"name": "currentOwner",
"type": "address"
"stateMutability": "view",
"type": "function"
"inputs": [
"internalType": "uint256",
"name": "registrationId",
"type": "uint256"
"name": "getBookDetails",
"outputs": [
"internalType": "string",
"name": "",
"type": "string"
"internalType": "string",
"name": "",
"type": "string"
"internalType": "address",
"name": "",
"type": "address"
```

```
"stateMutability": "view",
"type": "function"
"inputs": [],
"name": "owner",
"outputs": [
"internalType": "address",
"name": "",
"type": "address"
"stateMutability": "view",
"type": "function"
"inputs": [
"internalType": "uint256",
"name": "registrationId",
"type": "uint256"
"internalType": "address",
"name": "_newOwner",
"type": "address"
"name": "transferOwnership",
"outputs": [],
"stateMutability": "nonpayable",
"type": "function"
```

## **BYTECODE**