```
// 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 CODE:
[
       {
               "inputs": [],
               "stateMutability": "nonpayable",
               "type": "constructor"
       },
       {
               "anonymous": false,
               "inputs": [
                       {
                               "indexed": true,
                               "internalType": "uint256",
                               "name": "bookId",
                               "type": "uint256"
                       },
                       {
```

```
"indexed": false,
                        "internalType": "string",
                        "name": "title",
                        "type": "string"
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                        "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,
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                        "name": "previousOwner",
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               },
               {
                       "indexed": true,
                        "internalType": "address",
                        "name": "newOwner",
                       "type": "address"
               }
       ],
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        "type": "event"
},
{
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                        "internalType": "uint256",
```

```
"name": "registration",
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                         "name": "_title",
                         "type": "string"
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                         "type": "string"
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```

```
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        ],
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                }
        ],
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                         "name": "title",
                        "type": "string"
                },
                {
                         "internalType": "string",
                         "name": "author",
```

```
"type": "string"
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                {
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                        "name": "currentOwner",
                        "type": "address"
                }
        ],
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        "type": "function"
},
{
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                        "name": "registrationId",
                        "type": "uint256"
                }
        ],
        "name": "getBookDetails",
        "outputs": [
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                        "name": "",
                        "type": "string"
```

```
},
                {
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                        "name": "",
                        "type": "string"
                },
                {
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                }
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        "stateMutability": "view",
        "type": "function"
},
{
        "inputs": [],
        "name": "owner",
        "outputs": [
                {
                        "internalType": "address",
                        "name": "",
                        "type": "address"
                }
       ],
```

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

BYTE CODE:

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