

Package org.bookstore.catalog.service

Class CatalogService

java.lang.Object
org.bookstore.catalog.service.CatalogService

```
public class CatalogService
extends Object
```

The class CatalogService defines a service to manage the books of a bookstore.

Constructor Summary

Constructors

Constructor	Description
CatalogService()	

Method Summary

[All Methods](#) [Instance Methods](#) [Concrete Methods](#)

Modifier and Type	Method	Description
<code>Book</code>	<code>addBook(Book book)</code>	Adds a book to the catalog.
<code>Book</code>	<code>findBook(String isbn)</code>	Finds a book in the catalog.
<code>List <Book></code>	<code>searchBooks(List <String> keywords)</code>	Searches for books in the catalog. A book is included in the result if all keywords are contained in the title, authors or publisher of the book.

Book

updateBook(Book book)

Updates a book in the catalog.

Methods inherited from class java.lang.Object

`clone` , `equals` , `finalize` , `getClass` , `hashCode` , `notify` , `notifyAll` , `toString` , `wait` , `wait` , `wait`

Constructor Details

CatalogService

```
public CatalogService()
```

Method Details

addBook

```
public Book addBook(Book book)
    throws BookAlreadyExistsException
```

Adds a book to the catalog.

Parameters:

`book` - the data of the book to be added

Returns:

the data of the added book

Throws:

`BookAlreadyExistsException` - if a book with the same ISBN already exists

findBook

```
public Book findBook(String isbn)
    throws BookNotFoundException
```

Finds a book in the catalog.

Parameters:

isbn - the ISBN of the book

Returns:

the data of the found book

Throws:

`BookNotFoundException` - if no book with the specified ISBN exists

searchBooks

```
public List <Book> searchBooks(List <String> keywords)
```

Searches for books in the catalog.

A book is included in the result if all keywords are contained in the title, authors or publisher of the book.

Parameters:

keywords - the keywords to search for

Returns:

the matching books

updateBook

```
public Book updateBook(Book book)
    throws BookNotFoundException
```

Updates a book in the catalog.

Parameters:

book - the new data of the book

Returns:

the data of the updated book

Throws:

[BookNotFoundException](#) - if no book with the corresponding ISBN exists