Package org.bookstore.customer.service

Class CustomerService

java.lang.Object
    org.bookstore.customer.service.CustomerService

```
public class CustomerService
extends Object
```

The class CustomerService defines a service to manage the customers of a bookstore.

Constructor Summary

Constructors

Constructor	Description
`CustomerService()`	

Method Summary

All Methods Instance Methods Concrete Methods

Modifier and Type	Method	Description
`Customer`	`findCustomer(long id)`	Finds a customer by identifier.
`Customer`	`registerCustomer(Customer customer)`	Registers a customer.
`List <CustomerInfo>`	`searchCustomers(String  name)`	Searches for customers by name. A customer is included in the result if the specified name is contained in the first or last name.

`Customer`	`updateCustomer(Customer customer)`	Updates the data of a customer.

Methods inherited from class java.lang.Object

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

Constructor Details

CustomerService

```
public CustomerService()
```

Method Details

registerCustomer

```
public Customer registerCustomer(Customer customer)
                          throws EmailAlreadyExistsException
```

Registers a customer.

Parameters:

`customer` - the data of the customer (identifier must be null)

Returns:

the data of the registered customer

Throws:

`EmailAlreadyExistsException` - if the email address is already used by another customer

findCustomer

```
public Customer findCustomer(long id)
                      throws CustomerNotFoundException
```

Finds a customer by identifier.

Parameters:

`id` - the identifier of the customer

Returns:

the data of the found customer

Throws:

`CustomerNotFoundException` - if no customer with the specified identifier exists

searchCustomers

```
public List <CustomerInfo> searchCustomers(String  name)
```

Searches for customers by name.
A customer is included in the result if the specified name is contained in the first or last name.

Parameters:

`name` - the name to search for

Returns:

the matching customers

updateCustomer

```
public Customer updateCustomer(Customer customer)
                        throws CustomerNotFoundException,
                               EmailAlreadyExistsException
```

Updates the data of a customer.

Parameters:

`customer` - the new data of the customer

Returns:

the data of the updated customer

Throws:

`CustomerNotFoundException` - if no customer with the corresponding identifier exists

`EmailAlreadyExistsException` - if the new email address is already used by another customer