Documentation

**Package seaviewhotels**

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| --- | --- |
| Class Summary | |
| Class | **Description** |
| [Booking](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\Booking.html) | Booking class records the details about the single booking. |
| [BookMeeting](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\BookMeeting.html) | BookMeeting class books the meeting and calculates the total cost. |
| [MeetingRoom](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\MeetingRoom.html) | MeetingRoom class records the details about the rooms available. |
| [Organization](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\Organization.html) | Organization records the details about the created organization clients. |
| [SeaViewHotels](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html) | SeaViewHotels is the main driver class that contains the main method and is responsible for the functionality of the program |

## **Functional Requirements Achieved**

The following are the Functional Requirements (FR) that the program achieved:

FR-1: The program is a text-console menu-based system. The program provides the user interaction, makes use of menus and sub-menus.

FR-3: Allow the user to create a new Organisational Client [Person 2]

FR-5: Allow the user to create a new Meeting booking for an Organisational Client [Person 2]

FR-7: Keep all created bookings, organisations, and hotel guests in memory [both].

FR-8: Display a list of all bookings (Meeting) for a given day.

## **Class Hierarchy**

* java.lang.Object
  + seaviewhotels.[Booking](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\Booking.html)
  + seaviewhotels.[Organization](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\Organization.html)
  + seaviewhotels.[SeaViewHotels](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html)
    - seaviewhotels.[BookMeeting](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\BookMeeting.html)
    - seaviewhotels.[MeetingRoom](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\MeetingRoom.html)

# Other Specific Requirements

## **Inheritance**

The class SeaViewHotel is inherited by two classes in the solution that are: BookMeeting and MeetingRoom. The methods and fields inherited is given below in the respective class details section.

## **Polymorphism:**

* The constructors in Class MeetingRoom show polymorphism, there are two constructors with different arguments.

[Meeting](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\BookMeeting.html#BookMeeting--)Room(String type, int rate, String desc) ,

[Meeting](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\BookMeeting.html#BookMeeting--)Room()

* The constructors in Class Organization show polymorphism, there are two constructors with different arguments.

Organization(String orgName, String contactPerson, String contactNumber),

Organization ()

* The toString() method in class Booking overrides toString()in class java.lang.Object.

## **Aggregation:**

The aggreration is achieved by:

**organizationList**

protected static java.util.ArrayList<[Organization](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\Organization.html)> organizationList

**bookingList**

protected static java.util.ArrayList<[Booking](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\Booking.html)> bookingList

**roomList**

protected static java.util.ArrayList<[MeetingRoom](file:///I:\\JAVA\\SeaViewHotels\\dist\\javadoc\\seaviewhotels\\MeetingRoom.html" \o "class in seaviewhotels)> roomList

## **Class Booking**

***Method Summary***

|  |  |
| --- | --- |
| **Modifier and Type** | **Method and Description** |
| int | [getDay](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\Booking.html#getDay--)() |
| java.lang.String | [toString](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\Booking.html#toString--)()  Overrides:  toString in class java.lang.Object |

## 

**Class BookMeeting**

public class BookMeeting

extends [SeaViewHotels](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html)

**Fields inherited from class seaviewhotels.**[**SeaViewHotels**](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html)

[bookingList](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#bookingList), [organizationList](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#organizationList), [roomList](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#roomList)

|  |
| --- |
| **Constructor and Description** |
| [BookMeeting](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\BookMeeting.html#BookMeeting--)() |

***Constructor Summary***

***Method Summary***

|  |  |
| --- | --- |
| **Modifier and Type** | **Method and Description** |
| void | [DisplayBookingCost](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\BookMeeting.html#DisplayBookingCost--)() |
| void | [MeetingBooking](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\BookMeeting.html#MeetingBooking--)() |

**Methods inherited from class seaviewhotels.**[**SeaViewHotels**](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html)

[CreateMeetingBooking](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#CreateMeetingBooking--), [CreateOrganizationalClient](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#CreateOrganizationalClient--), [DisplayAllBookings](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#DisplayAllBookings--), [DisplayBooking](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#DisplayBooking--), [ExitProgram](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#ExitProgram--), [InitializeMeetingRooms](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#InitializeMeetingRooms--), [main](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#main-java.lang.String:A-), [Proceed](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#Proceed-int-), [validateContact](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#validateContact-java.lang.String-)

## **Class MeetingRoom**

public class MeetingRoom

extends [SeaViewHotels](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html)

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| --- |
| [Meeting](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\BookMeeting.html#BookMeeting--)Room()  [Meeting](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\BookMeeting.html#BookMeeting--)Room(String type, int rate, String desc) |

***Constructor Summary***

**Fields inherited from class seaviewhotels.**[**SeaViewHotels**](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html)

[bookingList](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#bookingList), [organizationList](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#organizationList), [roomList](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#roomList)

|  |  |
| --- | --- |
| **Modifier and Type** | **Method and Description** |
| int | [getRates](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\MeetingRoom.html#getRates--)() |
| java.lang.String | [getRoomType](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\MeetingRoom.html#getRoomType--)() |

***Method Summary***

**Methods inherited from class seaviewhotels.**[**SeaViewHotels**](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html)

[CreateMeetingBooking](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#CreateMeetingBooking--), [CreateOrganizationalClient](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#CreateOrganizationalClient--), [DisplayAllBookings](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#DisplayAllBookings--), [DisplayBooking](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#DisplayBooking--), [ExitProgram](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#ExitProgram--), [InitializeMeetingRooms](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#InitializeMeetingRooms--), [main](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#main-java.lang.String:A-), [Proceed](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#Proceed-int-), [validateContact](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#validateContact-java.lang.String-)

## **Class Organization**

***Method Summary***

|  |  |
| --- | --- |
| **Modifier and Type** | **Method and Description** |
| java.lang.String | [getOrgName](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\Organization.html#getOrgName--)() |

## **Class SeaViewHotels**

**Direct Known Subclasses:**

[BookMeeting](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\BookMeeting.html), [MeetingRoom](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\MeetingRoom.html)

***Field Summary***

|  |  |
| --- | --- |
| **Fields** | |
| **Modifier and Type** | **Field and Description** |
| protected static java.util.ArrayList<[**Booking**](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\Booking.html)> | [bookingList](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#bookingList) |
| protected static java.util.ArrayList<[**Organization**](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\Organization.html)> | [organizationList](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#organizationList) |
| protected static java.util.ArrayList<**[MeetingRoom](file:///I:\\JAVA\\SeaViewHotels\\dist\\javadoc\\seaviewhotels\\MeetingRoom.html" \o "class in seaviewhotels)**> | [roomList](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#roomList) |

***Constructor Summary***

|  |
| --- |
| **Constructors** |
| **Constructor and Description** |
| [SeaViewHotels](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#SeaViewHotels--)() |

***Method Summary***

|  |  |
| --- | --- |
| **Modifier and Type** | **Method and Description** |
| static void | [CreateMeetingBooking](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#CreateMeetingBooking--)() |
| static void | [CreateOrganizationalClient](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#CreateOrganizationalClient--)() |
| static void | [DisplayAllBookings](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#DisplayAllBookings--)() |
| static void | [DisplayBooking](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#DisplayBooking--)() |
| static void | [ExitProgram](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#ExitProgram--)() |
| static void | [InitializeMeetingRooms](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#InitializeMeetingRooms--)() |
| static void | [main](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#main-java.lang.String:A-)(java.lang.String[] args) |
| static void | [Proceed](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#Proceed-int-)(int choice) |
| static boolean | [validateContact](file:///I:\JAVA\SeaViewHotels\dist\javadoc\seaviewhotels\SeaViewHotels.html#validateContact-java.lang.String-)(java.lang.String s) |