

# Basics of Software Engineering, Lab # 6

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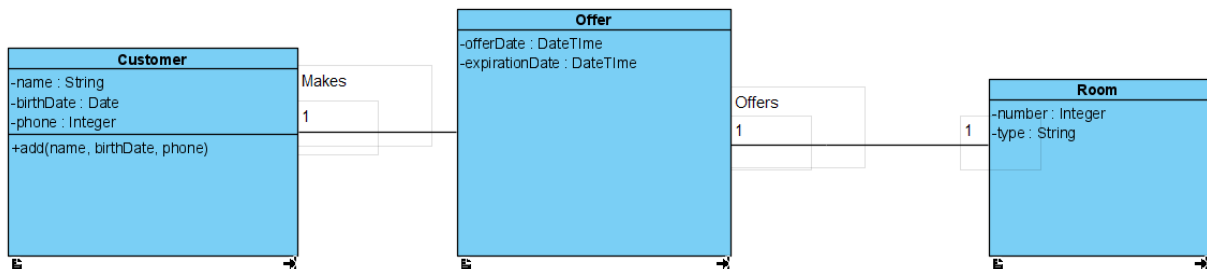
## Task 1

Textual analysis:

A hotel management system gives opportunity to make offers for a specific rooms in a hotel. An offer has a date and time when it was made and supposed expiration date. An offer has information about a room which will be offered to a customer. Room contains information about it's type (single or double) and number. Room cannot be offered by two difference offers at the same time. Also offer contains information about Customer - name, birth date and phone number.

No.	Candidate Class	Extracted Text	Type	Description	Occurrence	Highlig...
1	offer	offer	✓ Unspecified	Some document which contains information about the order of the customer	3	
2	Room	Room	✓ Unspecified	A "product" offered to a customer	3	
3	Customer	Customer	✓ Unspecified	A person who makes an order in the hotel	2	

Class Diagram



## Task 2

```
public class Offer {  
    public LocalDateTime offerDate;  
    public LocalDateTime expirationDate;  
    public Customer customer;  
    public Room room;  
}
```

```
public class Room {  
    public int number;  
    public String type;  
}
```

```
import java.util.Date;  
  
public class Customer {  
    public String name;  
    public Date birthDate;  
    public String phone;  
}
```

### **Task 3:**

The company consists of many departments and offices. Company has a name, The department has a name and managed by one of his employees. Other employees of the department are managed by this department. The employee has a name and title. The office has an address and a headquarter. Departments and offices can communicate with each other.