

LU08.L02 - Zweiseitige Beziehung

customer.py

```
class Customer:
    """
    The customer who makes a reservation for an event

    Attributes
    -----
    name: String
        the full name of the customer
    reservation: Reservation
        the reservation object for this customer
    """

    def __init__(self, name, reservation):
        """ creates the customer """
        self._name = name
        self._reservation = reservation
        reservation.customer = self

    def __str__(self):
        """ returns as String representation of this customer """
        return f'{self.name} hat eine Reservation für den Anlass {self._reservation.event}'

    @property
    def name(self):
        """ gets the name """
        return self._name

    @property
    def reservation(self):
        """ gets the reservation """
        return self._reservation
```

reservation.py

```
class Reservation:
    """
    A reservation for an event

    Attributes
    -----
    event: String
        the name of the event
```

```
number: String
    the reservation number
customer: Customer
    the customer this reservation belongs to
"""

def __init__(self, number, name):
    """ Creates the reservation """
    self._event = name
    self._number = number
    self._the_customer = None

def __str__(self):
    """ Returns a String representation of this reservation """

    if self.customer is not None:
        return f'Reservation {self.number} {self.event} für Kunde {self.customer.name}'
    else:
        return f'{self.event} ist kein Kunde zugeordnet'

@property
def event(self):
    """ gets the event """
    return self._event

@property
def number(self):
    """ gets the number """
    return self._number

@property
def customer(self):
    """ gets the customer """
    return self._the_customer

@customer.setter
def customer(self, customer):
    """ sets the customer """
    self._the_customer = customer
```

main.py

```
from customer import Customer
from reservation import Reservation

def main():
    """ creates some objects and calls some methods """
```

```
reservation = Reservation('123', 'ESAF')
customer = Customer('Julian', reservation)
print(customer)
print(reservation)

if __name__ == '__main__':
    main()
```

M320-LU08

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