

# IDS 2023/2024 – 1. part of the project

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## 1 Task

### Hotel

”Navrhňte IS recepce hotelu, který by poskytoval přehled o dostupných pokojích, základní údaje o zákaznících a jejich pobytech v hotelu, jejich požadavcích na služby, placení apod. Systém musí umožnit také rezervaci pokojů.”

## 2 Description of the data model

### 2.1 ER diagram

The ER diagram contains the following entities:

**Room:** Includes room information and booking options like cost and availability.

**Room-type:** The strong entity contains information about the type of room: its name, capacity etc.

**Person:** An entity containing common information about person that can be identified as common to employees and customers.

**Customer:** It is an extension of ”Person”. It is linked with his payments, reservations and services, he has ordered. It contains the necessary unique information about the customer.

**Personnel:** It inherits attributes from the ”Person” entity and contains additional information about the hotel employee.

**Reservation:** Saves reservation information, date of arrival and departure, total price and number of people.

**Payment:** Payment for bookings and services ordered

**Service:** The number of services offered by the hotel that the client can order and pay for

### 2.2 UseCase diagram

There are several actors in the use case diagram.

**Personnel:** Responsible for the provision of hotel services

**Customer:** Can make a reservation, select arrival and departure date, view available rooms, select a room type, order additional services, change reservation details or cancel reservation.

**Admin:** Manages the administration of the hotel system, ensures that employees perform their duties, communicates with customers, controls reservations in the system and the payment process.

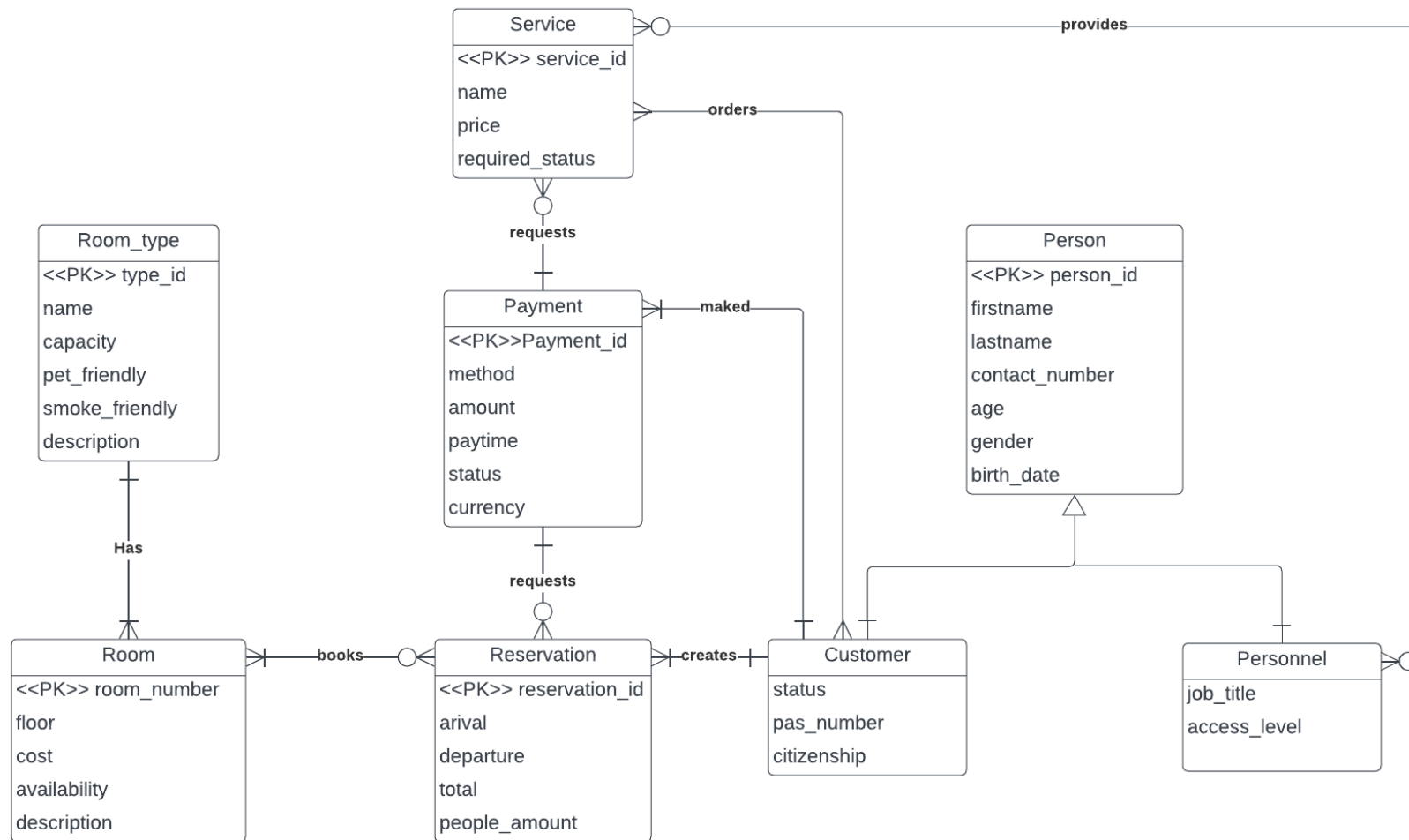


Figure 1: ER diagram



Figure 2: UseCase diagram