Hotel management

HotelRoom
- -ID
- -type

RoomType
- -name
- -capacity

Reservation
- -ID
- -name
- -start
- -end

1..n is booked in 1

Booking system

Reservation
- -ID
- -Room
- -start
- -end

Reservation
- -id
- -price

Tickets
- -allTickets

Ticket
- -ID
- -type
- -start
- -end
- -ageGroup
- -price

belongs in

<<aggregate>>
Booking
- -ID

Guest
- -contactInfo
- -guestType

GuestType
- -adults
- -children

1 1..n

ContactInfo
- -name
- -email
- -phoneNumber

Payment

Ticketing

Ticket
- -ID
- -type
- -start
- -end
- -ageGroup
- -price

Ticket type
- -electronic
- -printed

Forecasting system

Log in system

Park access

Ticket
- -ID
- -isUsed
- -start
- -end

Gate
- -ID
- -location

GateCheckIn

GateCheckOut

GateInfo

Park info

Visitor

ParkStand
- -id
- -isOpen
- -location

Staff
- -id
- -jobDescrtiption

Menu
- -name
- -description
- -price

Queue
- -amounfOfPeople
- -throughoutRate
- -waitingTime
- -targetCustomers

Attraction
- -id
- -name
- -location

n n

1 1

Use case

Use case 1: User books a 3-day visit at Techtopia

Actors: Guest, System

Basic flow:
The guest opens the Techtopia website and mobile app and navigates to the ticketing section. They select the 3-day pass option and put in the period they want to visit the park. The platform displays the available hotel rooms, and the guest chooses a room for their immediate family and one for the grandparents. They get to the payment page, where they fill in the necessary information and pay for the reservations. At last, they get their tickets and a confirmation email including the booking details.

Alternative flow:
If the guest fills out the wrong information, the platform will display an error message.
If the guest doesn't receive a confirmation message, they can request a resend.

Postconditions:
The guest has successfully registered for a 3-day pass.
The tickets and confirmation email are sent to the guest.

Use case 2: Guest visits Techtopia

Actors: Guest

Basic flow:
The guests enter the park by scanning their tickets at the gate. The guests are enjoying the rides and attractions. They can check out the points of interest by checking out the touchscreens from around the park. The guest searches for the "Gnome ride" and checks out the description, picture, and the overview of the similar attractions.

Postcondition:
The guest enjoyed their stay Techtopia, by using their tickets.

Use case 3: Guest checks out of the hotel

Actors: guest

Preconditions:
The guest has stayed at the hotel as part of the visit.

Basic flow:
On the last day the guests pack their bags and check out of the hotel. They enjoy their last day in the park by scanning the last entrance ticket.

Postconditions:
The guests had enjoyed their stay at Techtopia.

Use case 4: Guest buys on-site tickets

Actors: Guest, ticketing agent

Basic flow:
The guest gets to the entrance of Techtopia and joins the que to purchase a printed ticket. The ticketing agent shows the guest the available ticket options and the prices. The guest chooses their options and pays for the tickets.

Postconditions:
The guests complete their visit.