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# PETRI-NET FOR A HOTEL RESERVATION SYSTEM

**INTRODUCTION**

A hotel reservation system is a software application that is implemented by hotels to allow guests to create secure online reservations. A hotel reservation system works by processing secure online reservations made through a hotel’s website. The data is then passed onto a backend system which can be accessed by hotels to manage bookings. To sell rooms to capacity and to appeal to a large audience, a hotel reservation system is required.

***A petri-net of a Hotel Reservation System***

P7

P1

t1

P2

t2

P5

t6

P6

t3

t4

t5

P3

p4

t7

Payment Type

Book hotel

Choose payment method

Card Payment

Cash Payment

View hotel details

This Petri net describes a booking process, where the user ﬁrst books a hotel, chooses the payment type, pays for the reservation (using one of the payment types) or skips the payment, and views the hotel details (before, after, or during the pay)