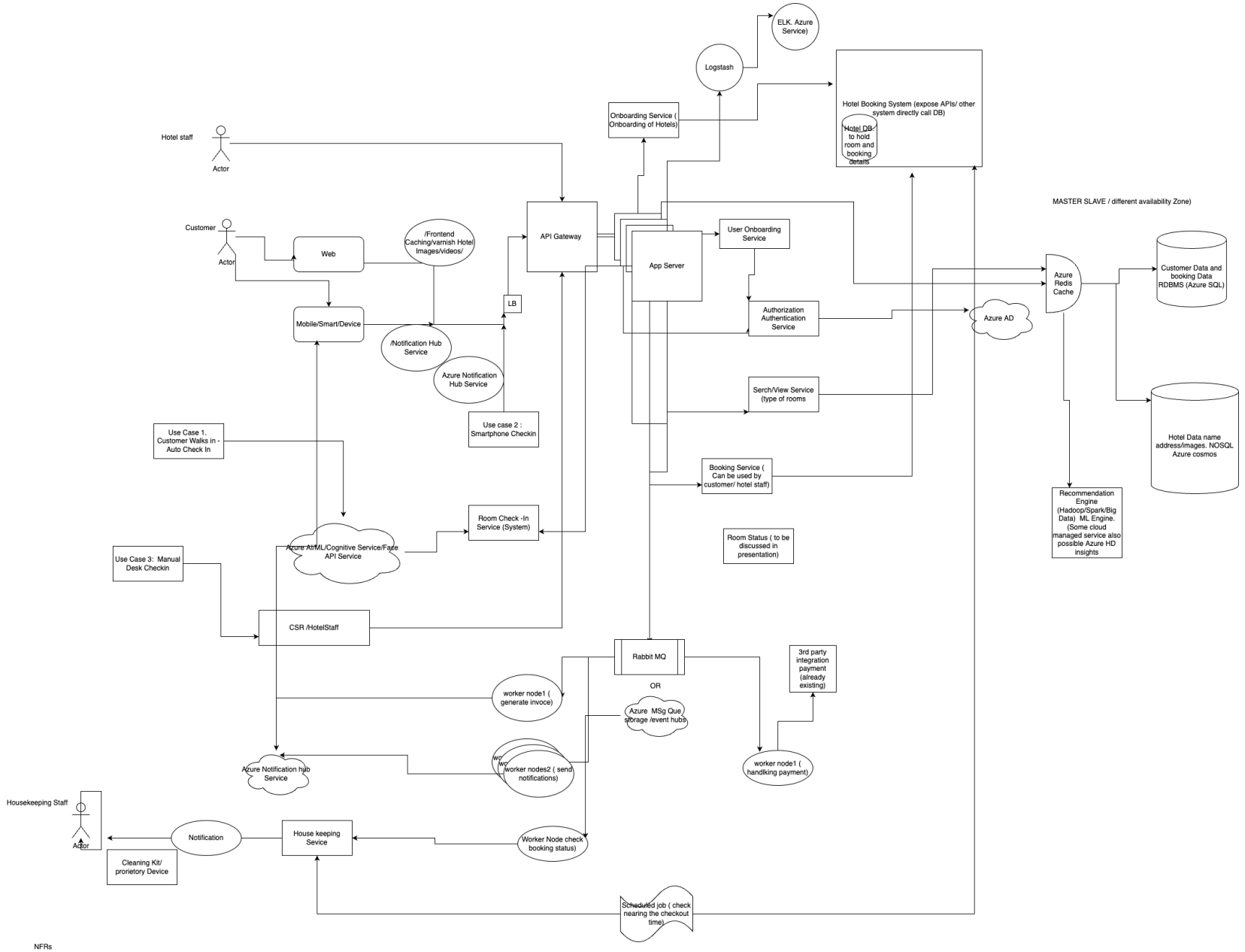
Assumptions:

1. The same hotel/room can be booked by a different channel /app other than the app we are designing
2. Hotel DB Locking mechanism should handle this concurrency in DB side with a timeout (e.g 10 min)
3. Hotel db may also reserve some booking for our app
3. Phone Call/Walking will be manual booking through staff/CSR
4. Check -in (Can be Automated by face recognition, check in desk , mobile/smart device)
5. Cleaning cart will have one device supplied by the company which will allow housekeeping staff to enter the particular room

1. onboarding of Hotels
2. Authorization and Authentication for staffs and customers
3. Cleaning Cart Service - Housekeeping
4. Face recognition And Personalization Service
5. Auto checkin service
6. Notification - email/sms/push (GPN/APN)



NFRs

1. low latency
2. avauilability
3. fault tolerance

Capacity planning : Not done