**4. Error Handling and Edge Cases**

Describe how the system will handle:

- Overbooking scenarios.

Configure the maximum booking capacity of the system. When this maximum configuration is exceeded, the booking API should not allow further instance bookings, returning a 500 status code and indicating in the API response that 'the system cannot process the booking due to overbooking'.

- Taxi unavailability during instant bookings.

When a user makes an instant booking and no taxis are immediately available, the system will still accept the instant booking and wait for a taxi to become available. However, if no taxi becomes available within 15 minutes, the system will cancel the instant booking and notify the user.

- Invalid webhook data from parking lanes.

Configure the system to skip processing and log the invalid data. Additionally, implement a reporting system for this invalid data and integrate with the webhook provider to request a data recheck.

- Network failures during notifications.

In the event of network failures during notifications, the system will send tasks to a Redis queue and prioritize these tasks to the highest level. It will continue to do this repeatedly until the network is functioning normally and the notification is successfully sent.