## **Hotels cancellation flow using Agoda APIs:**

• Please note that I've handled assumptions as per my knowledge. Feel free to get back to me in case of any discussions or modifications:)

**Problem statement:** To show the **cancellation policy** using **agoda APIs** and to note down the **responses** used in the **userflow.** 

## Why should we create this solution?

- Users should know about the cancellation policy without any issues and handle their travel planning accordingly.
- To give an **estimate of the refund** in case of a cancellation.
- Having a cancellation policy online without the intervention of hotel management in few clicks is great user pain point.

## Solution:

- I've tried to follow up a **userflow that is least resistant** in nature to the user. Most of the travel websites/applications follow this path.
- I've only designed keeping in mind about the **mobile applications**.
- Since we are focusing on the cancellation flow, the main data we need to deal with is
  the cancellation related data and booking details. Agoda provides data in two
  formats: JSON and XML. Let's focus on using the JSON data as of now. It can easily be
  extended to XML data as well.
- But how does Agoda do this? They **provide us with APIs** to fetch this data. We request data through these APIs with **request parameters** and they give us back the **response** back with the **data**. We can then use this data to display it on the **application interface**.
- In this solution, I'll only comment on the response parameters of the APIs and not the request parameters and also error handling as this solution will become more complicated. Let's keep this simple :)

- However, if you feel the need to deal with the request parameters/error feel free to reach out to me!
- We can use the following APIS:

**JSON BookingDetail API**: This API gives us the booking details of the user. The following response parameters are utilised in the userflow shown below:

- 1. **id**: This response parameter can be extracted from the "bookings" element -> "id" attribute and served on the booking information UI screen as the id of the booking.
- 2. **propertyName:** This response parameter can be extracted from the "bookings" element -> "property"-> "propertyName" attribute and served on the booking information UI screen as the property name of the booking.
- 3. **city:** This response parameter can be extracted from the "bookings" element -> "property"-> "city" attribute and served on the booking information UI screen as the property name of the booking.
- 4. **checkIn:** This response parameter can be extracted from the "bookings" element -> "checkIn" attribute and served on the booking information UI screen as the check in of the booking.
- 5. **roomType:** This response parameter can be extracted from the "bookings" element -> "room" -> "roomType" attribute and served on the booking information UI screen as the check in of the booking.
- 6. **roomsBooked:** This response parameter can be extracted from the "bookings" element -> "room" -> "roomsBooked" attribute and served on the booking information UI screen as the check in of the booking.
- 7. **Occupancy:** This response parameter can be extracted from the "bookings" element -> "occupancy" attribute and served on the booking information UI screen as the id of the booking.
- 8. **specialRequest:** This response parameter can be extracted from the "bookings" element -> "specialRequest" attribute and served on the booking information UI screen as the id of the booking.

**JSON Cancel API**: This gives us the cancellation policy and deductions post cancellation.

The following response parameters are utilised in the userflow shown below:

- 1. **cancellationPolicy**: This response parameter can be extracted from the "cancellationPolicy" element -> "PolicyText" attribute and served on the cancel booking UI screen as the cancellation policy of the hotel.
- 2. **paymentRate**: This response parameter can be extracted from the "paymentRate" element -> "inclusive" attribute and served on the cancel booking UI screen as total payment paid to the hotel. Additionally the type of currency can be extracted from the API.
- **3. refundRate:** This response parameter can be extracted from the "refundRate" element -> "inclusive" attribute and served on the cancel booking UI screen as refund given by the hotel. Additionally the type of currency can be extracted from the API.
- 4. **Deductions:** This is not directly extracted from the API, but can calculated by (paymentRate refundRate).

**JSON confirm cancel API**: When we press the confirm cancellation this API is called to confirm the cancellation. This does not return any parameters to be handled.

**JSON requestList API:** We can use this API to request bookings done based on date range. However, I've not included this API in the userflow for a simpler solution.

You could **read more about these APIs** and their **responses below**:

https://partners.agoda.com/DeveloperPortal/APIDoc/PostBookingJsonAPI#cancel

**Note**: Most of the APIs use request parameter as the booking ID!

Here's a userflow based on the APIs discussed above. I will also attach the high quality JPEG just in case this userflow isn't visible in the document.

