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Hotel API DOCUMENTATION

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1. Changelogs

Date	By	Change	Description	Version
11 Nov 2022	Bilal Shaikh	Document Launch	Hotel API Documentation (JSON-Based)	1.0

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2. API Endpoints

Test BaseURL: https://hotelout.aos-dev.com/

Please follow this convention for API endpoints: {BaseURL}/{Method Name}.

API	Endpoint
Authentication	api/auth/authenticate
City Search	https://hotelapi.aos-dev.com/api/hotel/location?searchKey=london&langCode=EN
Nationality Search	https://adminapi.aos-dev.com/api/MasterSearch/GetAllCountry/EN/india
Search	api/hotel/search
Availability	api/hotel/availability
Recheck	api/hotel/recheck
Booking	api/hotel/booking

3. Authentication

The API uses the Bearer Token protocol for this authentication.
All APIs should be secured with HTTPS protocol.

Description	The provided Username and Password should be used in the authorization.
URL	api/auth/authenticate
Method	POST
Content-Type	application/json

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3.1. Authentication Sample (Invalid Credentials)

3.2. Authentication Sample (Successful Token Generation)

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4. Timeout Settings

Please refer to the following table for recommended timeout settings for each API.

API	Recommended Timeout (in seconds)
Authentication	60
City Search	60
Nationality Search	60
Search	60
Availability	60
Recheck	60
Booking	240

Note: To complete the entire booking process i.e., from search to booking, the timeout is 29 minutes.

5. Response Status

Status code indicates the status of response.

Response Status	Status Code	Description	Remaks
Success	200		
Unauthorized	401		
Invalid Request	400		
Unsupported Media Type	415		
Invalid User Details	208		

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6. Flow Diagram
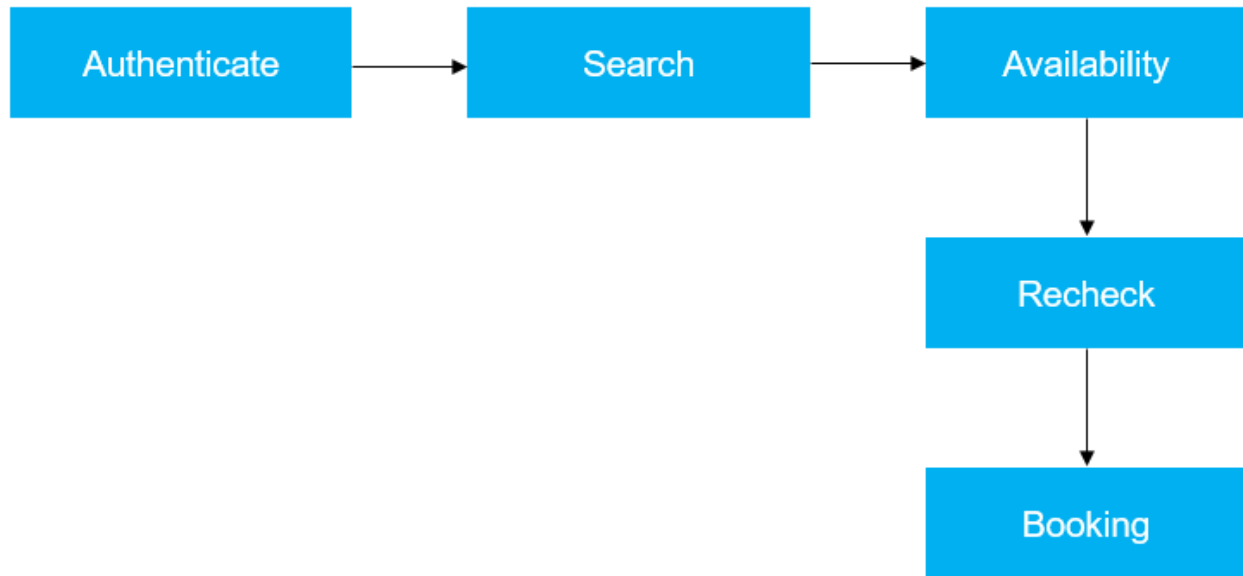
7. Search

Description	This method is used to request hotel availability. Each hotel in the response will have one room (lowest priced room for the searched criteria). In the case of multi room search the lowest priced multi room combination is received in response.
URL	BaseURL/api/hotel/search
Method	POST

7.1. Request Parameter

Parameter	Type	Description	
CityCode	String	City Code of the requested City	Mandatory
LangCode	String	2-letter Language Code of the requested language. (Supported languages: EN: English, AR: Arabic, FR: French)	Mandatory
CheckInDate	String	Check In Date of the stay Format: (DD-MMM-YYYY)	Mandatory
CheckOutDate	String	Check Out Date of the stay Format: (DD-MMM-YYYY)	Mandatory
SearchRooms	Array of Object	List of occupancy details for each room	Mandatory
Room	Integer	Room Index (1-6) (maximum 6 rooms search is supported)	Mandatory
Adult	Integer	Number of Adult guests room-wise (1-6) (maximum 6 adult supported in one room)	Mandatory
Child	Integer	Number of Child guests room-wise (0-4) (maximum 4 child supported in one room)	Mandatory
ChildAge	List of Integer Array	List of Child age room-wise (0-11 years) The length of the array is equal to the number of children in the room. (e.g. 0: "3", 1: "5" if the request contains 2 children with ages 3 and 5 respectively)	Mandatory
Currency	String	3 letter currency code eg: AED, INR Send the currency code of your account	Mandatory
Nationality	String	2 letter country codes (e.g. AE: United Arab	Mandatory

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		Emirates, TR: Turkey)	

7.2. Response Parameter

Parameter	Type	Description
HasResult	Boolean	This flag will be 'True' if the hotel results are available
SessionId	String	Session Id received in Search Response
Hotels	Array of Object	This array lists the available hotels with their details
HotelCode	String	The unique hotel Code (e.g. 298536)
Name	String	The name of the hotel (e.g. Belgrave House)
Rating	Integer	The star rating of the Hotel (e.g. 1, 2, 3, 4, 5 and 0 for Unrated)
Thumbnail	String	The URL of the Thumbnail image
CityCode	String	The CityCode of the City where the hotel is located. (*Please refer the City code api endpoint to retrieve the city codes)*
Country	String	Name of the Country (e.g.India)
PropertyType	String	Property type indicates the type of hotel (e.g. Apartment, Hotel, Motel etc)
GeoLocation	Object	The exact Geo-location of hotel, with Latitude and Longitude information
Latitude	Decimal	The Latitude information where the hotel is located
Longitude	Decimal	The Longitude information where the hotel is located
Address	String	The Address of the Hotel
Amenities	Array	Array of information related to amenities
Key	Integer	Amenity Order Id
Value	String	Text based amenity details
Rates	Array of Object	The array of room rate details of the hotel
RateGroupKey	String	Rate Group Key
Refundable	Boolean	true or false This flag indicates if the Hotel option is refundable or not
RatePlanName	String	Name of the Hotel Room Rate Plan which describes the Room Information

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BoardType	String	Board Type of the Room (e.g. Full Board, Half Board, Room Only, BreakFast, Lunch, Dinner, BreakFast Lunch, Breakfast For 2)
Price	Decimal	Total Price of the room
Currency	String	3 letter currency code
Rates	Array of Object	The list of Room rate details
Refundable	Boolean	true or false This flag indicates if the room option is refundable or not
Room	Array of Object	Room related details
NumberOfRooms	Integer	Number of Rooms
Adults	Integer	Number of Adult guests
Children	Integer	Number of Child guests
RoomType	String	This denotes the room type (e.g. Room ROH)
Name	String	The name of the room for the selected rate (e.g. Superior Room, 1 Double Bed)
ChildrenAge	Object	This object denotes the ages of each children
Age	Array	The list of ages for the children is returned in an array
RateComments	Object	This object lists the Room wise comments
Key	Integer	Rate Comment Order id
Value	String	Text based comments
NoOfRooms	Integer	The number of rooms (e.g. 2)
NoOfNights	Integer	The number of nights (e.g. 4)
Price	Decimal	This denotes the total price of the room
Currency	String	3 letter currency code
BoardCode	String	The board type of the room (e.g. Room only)
PriceBreakup	Object	This object gives the price breakup
TotalRate	Decimal	Total price of the room inclusive of output tax
OutputTax	Decimal	This parameter maps the outputTax which is already included in the totalRate (eg GST, VAT as per the market)

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IsPackageRate	Boolean	true or false This parameter denotes if the room is applicable as package rate. This rate can only be sold to guest who is booking multiple services such as Hotel + Air + Car + other travel services as package
Cancellation	Object	This Object will appear if 'IsRoomWiseCancellation' is True
UnderFreeCancellation	Boolean	true or false This flag denotes if the room has free cancellation option available
UnderCancellation	Boolean	true or false This flag denotes if the room is under cancellation period
Details	Array	This array denotes cancellation policy details
From	String	Start Date and Time of the cancellation policy
To	String	End Date and Time of the cancellation policy
Value	Integer	Value of cancellation charges applicable
Currency	String	3 letter currency code
AmountType	String	This parameter denotes the type of value ("flat" or "percentage")
PolicyText	String	This parameter denotes text based cancellation policy (if applicable)
HotelNoShowFee	Integer	No show fee
CancelByDate	String	Last Date and Time of cancellation
PolicyText	String	This parameter denotes text based cancellation policy (if applicable)
Cancellation	Object	This Object will appear only when IsRoomWiseCancellation is False
IsRoomWiseCancellation	Boolean	true or false This parameter denotes if cancellation is available room-wise or on the booking level
GuestRating	Integer	Guest Rating of the hotel
IsValid	Boolean	true or false This flag will denote if there is any error in the response

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8. Availability

Description	This method is used to request hotel information and all the available rooms in the selected hotel.
URL	BaseURL/api/hotel/availability
Method	POST

8.1. Request Parameter

Parameter	Type	Description	
CityCode	String	City Code of the requested City	Mandatory
Language	String	2-letter Language Code of the requested language. (Supported: EN for English, AR for Arabic, FR for French)	Mandatory
CheckIn	String	Check In Date of the stay Format: (DD-MMM-YYYY)	Mandatory
CheckOut	String	Check Out Date of the stay Format: (DD-MMM-YYYY)	Mandatory
SearchRooms	Array	List of occupancy details for each room	Mandatory
Room	Integer	Room Index (1-6)	Mandatory
Adult	Integer	Number of Adult guests room-wise (1-6)	Mandatory
Child	Integer	Number of Child guests room-wise (0-4)	Mandatory
ChildAge	Integer (Array)	List of Child age room-wise (0-11 years). The length of the array is equal to the number of children in the room. (e.g. 0: "3", 1: "5" if the request contains 2 children with ages 3 and 5 respectively).	Mandatory
Nationality	String	2 letter country codes (e.g. AE: United Arab Emirates, TR: Turkey	Mandatory
HoteCode	String	Hotel code received in search response	Mandatory
Currency	String	3 letter currency code	Mandatory
Session_Id	String	Session Id received in Search Response	Mandatory

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8.2. Response Parameter

Parameter	Type	Description
SessionId	String	Session Id
HasResult	Boolean	true or false This flag denotes the room availability in the selected hotel
HotelAvailability	Array of Object	This array consists hotel and available room details
HotelCode	String	This is a unique Hotel Code associated to the listed hotel
Name	String	The name of the hotel (e.g. Belgrave House)
Rating	Integer	The star rating of the Hotel (e.g. 1, 2, 3, 4, 5 and 0 for Unrated)
Thumbnail	String	The URL of the Thumbnail image
CityCode	String	The CityCode of the City where the hotel is located. (*Please refer the City code api endpoint to retrieve the city codes*)
Country	String	Name of the Country (e.g.India)
PropertyType	String	Property type indicates the type of hotel (e.g. Apartment, Hotel, Motel etc)
GeoLocation	Array	The exact Geo-location of hotel, with Latitude and Longitude information
Latitude	Decimal	The Latitude information on where the hotel is located
Longitude	Decimal	The Longitude information on where the hotel is located
Address	String	The Address of the Hotel
Description	String	The description of the Hotel
Images	Array	List of details for each image for the hotel
ImageUrl	String	The URL for the image
ImageCaption	String	The caption to be shown for the image
ImageType	String	The type of the image
Location	Array	An array of information related to the location of the hotel
Name	String	The name of the landmark
Distance	Decimal	The distance of the landmark from hotel
Unit	String	The unit of measurement specified in the distance

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Amenities	Array	Array of information related to amenities
Key	Integer	Amenity Order id
Value	String	Text based amenity details
Rates	Array of Object	The array of room rate details of the hotel
RateGroupKey	String	Rate Group Key
Refundable	Boolean	true or false This flag indicates if the Hotel option is refundable or not
RatePlanName	String	Name of the Hotel Room Rate Plan which describes the Room Information
BoardType	String	Board Type of the Room (e.g. Full Board, Half Board, Room Only, BreakFast, Lunch, Dinner, BreakFast Lunch, Breakfast For 2)
Price	Decimal	Total Price of the room
Currency	String	3 letter currency code
Rates	Array of Object	The list of Room rate details
Refundable	Boolean	true or false This flag indicates if the room option is refundable or not
Room	Array of Object	Room related details
NumberOfRooms	Integer	Number of Rooms
Adults	Integer	Number of Adult guests
Children	Integer	Number of Child guests
RoomType	String	This denotes the room type (e.g. Room ROH)
Name	String	The name of the room for the selected rate (e.g. Superior Room, 1 Double Bed)
ChildrenAge	Object	This object denotes the ages of each children
Age	Array	The list of ages for the children is returned in an array
RateComments	Object	This object lists the Room wise comments
Key	Integer	Rate Comments Order id
Value	String	Text based comments
NoOfRooms	Integer	The number of rooms (e.g. 2)

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NoOfNights	Integer	The number of nights (e.g. 4)
Price	Decimal	This denotes the total price of the room
Currency	String	3 letter currency code
BoardCode	String	The board type of the room (e.g. Room only)
PriceBreakup	Object	This object gives the price breakup
TotalRate	Decimal	Total price of the room inclusive of output tax
OutputTax	Decimal	This parameter maps the outputTax which is already included in the totalRate (eg GST, VAT as per the market)
IsPackageRate	Boolean	true or false This parameter denotes if the room is applicable as package rate. This rate can only be sold to guest who is booking multiple services such as Hotel + Air + Car + other travel services as package
Cancellation	Object	This Object will appear if 'IsRoomWiseCancellation' is True
UnderFreeCancellation	Boolean	true or false This flag denotes if the room has free cancellation option available
UnderCancellation	Boolean	true or false This flag denotes if the room is under cancellation period
Details	Array	This array denotes cancellation policy details
From	String	Start Date and Time of the cancellation policy
To	String	End Date and Time of the cancellation policy
Value	Integer	Value of cancellation charges applicable
Currency	String	3 letter currency code
AmountType	String	This parameter denotes the type of value ("flat" or "percentage")
PolicyText	String	This parameter denotes text based cancellation policy (if applicable)
CancelByDate	String	Last Date and Time of cancellation
PolicyText	String	This parameter denotes text based cancellation policy (if applicable)
Inclusions	List of String Array	This parameter denotes the list of inclusions in the selected room
RoomPromotions	List of String	This parameter denotes the list of room promotions in the

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	Array	selected room
Supplements	Array of object	This list denotes the list of supplements in the selected room
Index	Integer	Index of the supplement
Type	String	Type of Supplement (e.g. AtProperty)
Description	String	Details of the supplement (e.g. mandatory tax)
Price	Decimal	Price of the supplement
Currency	String	3 letter currency code
Cancellation	Object	This Object will appear only when IsRoomWiseCancellation is False
IsRoomWiseCancellation	Boolean	true or false This parameter denotes if cancellation is available room-wise or on the booking level
RateComments	List of String Array	List of hotel important information
GuestRating	Integer	Guest Rating of the hotel
ConnectedLocation	Array of Object	List of nearby location/attractions details
Name	String	Name of the location (e.g. Burj Khalifa)
Distance	Decimal	Distance of the location from the hotel (e.g. 2.4)
Unit	String	Unit of distance (e.g. Km)
Airports	Array of Object	List of nearby airports
Name	String	Name of the airport (e.g. Dubai International Airport)
Distance	Decimal	Distance of the airport from the hotel (e.g. 2.4)
Unit	String	Unit of distance (e.g. Km)
TrainStations	Array of Object	List of nearby Train Stations
Name	String	Name of the Train Station (e.g. Burj Khalifa - Dubai Mall Station)
Distance	Decimal	Distance of the airport from the hotel (e.g. 2.4)
Unit	String	Unit of distance (e.g. Km)
Neighbourhoods	Array of Object	List of nearby neighbourhoods
Name	String	Name of the Train Station (e.g. Downtown Dubai)

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Distance	Decimal	Distance of the neighbourhood from the hotel (e.g. 2.4)
Unit	String	Unit of distance (e.g. Km)
Stadiums	Array of Object	List of nearby stadiums
Name	String	Name of the stadium (e.g. Dubai International Stadium)
Distance	Decimal	Distance of the stadium from the hotel (e.g. 2.4)
Unit	String	Unit of distance (e.g. Km)
ExceptionString	String	This parameter will display the exception parameter
ErrorObj	Object	This object will display the error details
IsValid	Boolean	true or false This flag will denote if there is any error in the response

9. Recheck

Description	This method is used to recheck the room availability and rate (revalidation step before booking). Cancellation policy received in ratecheck response should be considered for the booking.
URL	BaseURL/api/hotel/recheck
Method	POST

9.1. Request Parameter

Parameter	**Type**	**Description**	
HotelCode	String	Unique Hotel Id of the selected Room	Mandatory
Rate	Array	List of Rate Group Key	Mandatory
RateGroupKey	String	Format: (3f479ec5-03ed-45aa-bd37-267e3da730d4)	Mandatory
Sid	String	Session Id Format: (1bfbcbc0-caa7-4717-83da-e4589deb176a)	Mandatory

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9.2. Response Parameter

Parameter	Type	Description
IsAvailablityCheckOk	Boolean	true or false This parameter denotes whether room is still available to proceed with booking or not
IsPriceChange	Boolean	true or false This flag denotes if the price is changed for the selected room
RoomGroup	Object	This Object is similar to the HotelAvailability Object in the Availability Response above.
PriceDifference	Decimal	This parameter denotes the difference in amount after revalidation (if applicable)
Currency	String	3 letter currency code
OldFare	Decimal	This parameter denotes the actual price before the price change
ExceptionMessage	String	This parameter will display the exception parameter
ErrorObj	Object	This object will display the error details
IsValid	Boolean	true or false This flag will denote if there is any error in the response

10. Booking

Description	This method is used to Create Booking.
URL	BaseURL/api/hotel/booking
Method	POST

10.1. Request Parameter

Parameter	Type	Description	
Sid	String	Session Id from ratecheck response eg: 1bfbcbc0-caa7-4717-83da-e4589deb176a	Mandatory
Client	object	You can pass the details of the booking person/lead guest in this object	Mandatory
Title	String	Salutation of the booking person/lead guest (For	Mandatory

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		Adult: Mr, Ms, Mrs)	
FirstName	String	First name of the lead guest	Mandatory
LastName	String	Last name of the lead guest	Mandatory
EmailAddress	String	Email address of the lead guest	Mandatory
CountryCode	String	Country Phone Code (eg. 966)	Mandatory
MobileNumber	Integer	Phone Number/Mobile Number of the lead guest with county code eg: 971527564522	Mandatory
UserId	Integer	User Id of the logged in end customer (in case you are using AOS B2C profile API) - value in this field is optional	Optional
Pax	Array of object	List of guests	Mandatory
Title	String	Salutation of the lead guest (For Adult: Mr, Ms, Mrs and For Child: Mstr, Miss)	Mandatory
PassengerType	String	adult or child	Mandatory
FirstName	String	First name of the guest	Mandatory
LastName	String	Last name of the guest	Mandatory
Nationality	String	Guest Nationality (Two letter country code eg: IN)	Mandatory
ContactCode	String	Country Phone Code (eg. 966)	Mandatory
ContactNumber	String	Phone/Mobile number	Mandatory
EmailId	String	Email Address	Mandatory
Order	Integer	Sequence of guests details entered while making the booking. (e.g. 1 for first guest)	Mandatory
Age	Integer	Age of child guest. Send null incase of Adult	Mandatory
LeadGuest	Boolean	true or false This flag denotes if this is the lead guest	Mandatory
RoomId	Integer	This parameter denotes the sequence and the number of rooms (e.g. 1 for 1st room 2 for 2nd room)	Mandatory
SpecialRequest	String	The special request entered while making the booking. This will be passed to supplier/hotel and it is subject to availability and confirmation from hotel	Optional

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Rate	Array	List of Rate Group Key	Mandatory
RateGroupKey	String	RateGroupKey received in recheck response Eg. 3f479ec5-03ed-45aa-bd37-267e3da730d4	Mandatory

10.2. Response Parameter

Parameter	Type	Description
BookingNumber	String	Unique Booking ID for the booking created
BookingDate	String	Booking date in UTC time (format: yyyy-MM-ddTHH:mm:ss.SSSZ)
BookingStatus	String	Booking Status (Confirmed, Pending, Failed, Cancelled, CancellationPending, Reserved, Rejected)
ConfirmationNumbers	Array	List of Confirmation Number/Control Numbers
BookingReferenceNumber	String	This is the unique booking reference number
SpecialRequest	String	The special request entered while making the booking
Passenger	Array of object	List of guests
Title	String	Salutation of the lead guest (For Adult: Mr, Ms, Mrs and For Child: Mstr, Miss)
PassengerType	String	adult or child
FirstName	String	First name of the guest
LastName	String	Last name of the guest
Nationality	String	Guest Nationality (2 letter country code eg: IN)
ContactCode	String	Country Phone Code (eg. 966)
ContactNumber	String	Phone/Mobile number
EmailId	String	Email Address
Order	Integer	Sequence of guests details entered while making the booking. (e.g. 1 for first guest)
Age	Integer	Age of child guest. In Adult it will be null
LeadGuest	Boolean	true or false This flag denotes if this is the lead guest

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RoomId	Integer	This parameter denotes the sequence and the number of room (e.g. 1 for 1st room 2 for 2nd room)
Hotel	Array of Object	This object is similar to the 'HotelAvailability' object in 'Availability' response
Client	object	Details of the booking person/lead guest
Title	String	Salutation of the booking person/lead guest (For Adult: Mr, Ms, Mrs)
FirstName	String	First name
LastName	String	Last name
EmailAddress	String	Email address
MobileNumber	Integer	Phone Number/Mobile Number
UserId	Integer	User Id of the logged in end customer (in case you are using AOS B2C profile API)
ErrorObj	Object	This object will display the error details
IsValid	Boolean	true or false This flag will denote if there is any error in the response

11. JSON Examples

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12. Certification (Test Cases)

API Partner needs to go through a certification process in order to get live access.
Partner is requested to provide JSON logs and booking flow screenshots of below test cases.

Test Cases
1 Room (1 Adult)
1 Room (2 Adult, 2 Child)
2 Rooms (Room 1: 1 Adult & Room 2: 2 Adult, 2 Child)
2 Rooms (Room 1: 1 Adult, 2 Child & Room 2: 1 Adult)
3 Rooms (Room 1: 3 Adult, Room 2: 4 Adult & Room 3: 2 Adult, 1 Child)

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