B2b Hotel search and booking flow and algorithms

## Home search

1.The Ajax request is sent to the DB to get the destination. We will get city id and city name as the  Ajax response. (city id will be stored in hidden value).

# Hotel List

1. Travelanda: We get hotels form HotelSearchRequest in API method using city id (city id is takes from search response).

2. TBO: We have get hotels form HotelSearch in API method using city id(city id is taken from DB using city name).

Note: city id may vary on TBO and Travelanda.

3. We have joined both APIs using hotel name, example We have to store hotel name using array in both APIs and match by similar\_text()

similar\_text -- The similar\_text() function calculates the similarity between two strings. It can also calculate the similarity of the two strings in percent.

We will join hotel name when percentage is more then 87.

4. Star Filter -- The hotels with star rating will be displayed when you select the ratings from the menu

i.e.,

var star = 5 //for example you click star value.

$('.hotellist-result').each(function(){

var Hotelstar = $(this).val();//for example Theis value get from showing hotels.

if(Hotelstar == star ){

We will show the hotel after which hotels matches.

}

}

5. Price Filter -- We have showed theme default price slider. The hotels with price rating will be displayed when you select the ratings from the menu.

i.e.,

var Maxprice = 1000 //Its value get from movement of the slider.

var Minprice = 500 //Its value get from movement of the slider.

$('.hotellist-result').each(function(){

var Hotelprice = $(this).val();//for example Theis value get from showing hotels.

if(Minprice <= Hotelprice && Hotelprice <=Maxprice){

We will show the hotels which matches the price range.

}

}

6. Board type: The hotels with board type will be displayed when you select the type from the menu.

i,e,.

var BoardType = Bed and Breakfast, Room Only //for example you click board value.

// The BoardType will convert string to array.

$('.hotellist-result').each(function(){

var boardtypeapi = 'Breakfast, Room Only';//for example Theis value get from showing hotels.

// The BoardType will convert string to array.

if(jQuery.inArray(BoardType, boardtypeapi) > -1 ) {

We will show the hotel after which hotels match.

}

}

# Hotel detail :

1.Travelanda Room List :

We get room list using hotelid by HotelSearchRequest method.

URL : http://xmldemo.travellanda.com/xmlv1/HotelSearchRequest.xsd

2.Tbo Room List:

We get room list using hotelid, session id, result index by AvailableHotelRooms method.

Action : http://TekTravel/HotelBookingApi/AvailableHotelRooms

3. Before room list showed, It will the check Hotel availability and policy.

# 1.Travelanda policy(policy)

URL : http://xmldemo.travellanda.com/xmlv1/HotelPoliciesRequest.xsd

# 2.Tbo Hotel AvailabilityAndPricing and policy (availability and policy)

Availability URL: http://TekTravel/HotelBookingApi/AvailabilityAndPricing

Policy URL: http://TekTravel/HotelBookingApi/HotelCancellationPolicy .

## Booking:

1.Before booking we have to collect the detail(like adult name, child name, etc.)

2.Travelanada Api:

Option id: It is returned in the HotelSearch response

RoomGuests: Collect data from payment page.

3.Tbo API:

Room Index: It is returned in the AvailableHotelRooms response

Rate plan code: It is returned in the AvailableHotelRooms response

RoomType: It is returned in the AvailableHotelRooms response

Result Index: It is returned in the Hotelsearch response

RoomGuests: collect data from payment page.