

Documentation of the purpose and information returned by each endpoint.

Endpoint	Purpose	Information Returned
@app.get("/")	Welcome endpoint for the BNB Listings Service	-
@app.get("/listings/top10/city/{city}")	This endpoint retrieves the top 10 listings in the specified city based on their review scores.	name: The name of the listing. listing_url: The URL of the listing. summary: A brief summary of the listing. address.market: The market (city) where the listing is located. review_scores.review_scores_rating: The review score rating of the listing.
@app.get("/cities/top5/average_rating")	This endpoint allows clients to retrieve the top 5 cities based on the average rating scores of the listings in those cities, providing relevant details about each city and its listings.	city: The city (market) name. average_rating: The average rating score of the listings in the city. Listings: A list of listings in the city including: name: The name of the listing. Type: The property type of the listing. Room Type: The room type of the listing. Price: The price of the listing.

<p>@app.get("/listings/country/{country}")</p>	<p>This endpoint retrieves all listings for the specified country, sorted by their review scores.</p>	<p>name: The name of the listing. summary: A brief summary of the listing. address.street: The street address of the listing. address.suburb: The suburb where the listing is located. property_type: The type of property (e.g., apartment, house). review_scores.review_scores_rating: The review score rating of the listing. price: The price of the listing. cleaning_fee: The cleaning fee associated with the listing.</p>
<p>@app.get("/listings/top10/property_type/{property_type}")</p>	<p>This endpoint retrieves the top 10 listings for the specified property type, sorted by their review scores.</p>	<p>name: The name of the listing. summary: A brief summary of the listing. address.country: The country where the listing is located. address.suburb: The suburb where the listing is located. property_type: The type of property. review_scores.review_scores_rating: The review score rating of the listing. price: The price of the listing. cleaning_fee: The cleaning fee associated with the listing</p>
<p>@app.get("/listing/{country}/{property_type}")</p>	<p>This endpoint retrieves listings for the</p>	<p>name: The name of the listing.</p>

<code>_type}/less_than_300")</code>	specified property type in the given country that cost less than 300.	<p>address.market: The market (city) where the listing is located.</p> <p>address.suburb: The suburb where the listing is located.</p> <p>beds: The number of beds available in the listing.</p> <p>price: The price of the listing.</p> <p>cleaning_fee: The cleaning fee associated with the listing.</p> <p>review_scores.review_scores_rating: The review score rating of the listing.</p>
<code>@app.get("/listing/{country}/{property_type}/with-more-than-10-amenities")</code>	This function is designed to retrieve property listings in a specified country and of a specified property type that has more than 10 amenities. The results are sorted by the total price including the cleaning fee in ascending order and limited to the top 5 listings.	<p>name: The name of the property.</p> <p>address.market: The market (city or region) where the property is located.</p> <p>address.suburb: The suburb where the property is located.</p> <p>beds: The number of beds available in the property.</p> <p>review_scores.review_scores_rating: The rating of the property based on review scores.</p> <p>total_price_include_cleaning_fee: The total price of the property, including the cleaning fee.</p> <p>amenities: The list of amenities available at the property.</p>
<code>@app.get("/hotel/{country}/under \$500")</code>	Retrieve the least expensive hotel in a specified country that only costs less than 500.	<p>name: The name of the hotel.</p> <p>address: The address of the hotel.</p> <p>price: The price per night of the hotel.</p> <p>review_scores: The review scores of</p>

		<p>the hotel.</p> <p>amenities: The list of amenities available at the hotel.</p>
@app.get("/listings/{country}/{property_type}/half-price")	Retrieve property listings in a specified country and belong to a specified property type. Additionally, it calculates and includes the half price of each listing.	<p>name: The name of the property.</p> <p>address.market: The market (city or region) where the property is located.</p> <p>price: The original price of the property.</p> <p>half_price: Half of the original price of the property.</p>
@app.get("/listings/{country}/at-most-5-max-guest")	Retrieve property listings that located in a specified country and can accommodate at most 5 guests. The results are sorted by price in ascending order.	<p>name: The name of the property.</p> <p>price: The price of the property.</p> <p>minimum_nights: The minimum number of nights required for a stay.</p> <p>property_type: The type of property.</p> <p>guests_included: The maximum number of guests included in the stay.</p> <p>address.suburb: The suburb where the property is located.</p> <p>address.market: The market (city or region) where the property is located.</p>
@app.get("/apartments/{country}/top15-with-responsive-host")	Retrieve the top 15 apartment listings that are located in a specified country, have a host with a response rate of at least 90%, and have a verified host identity. The results are sorted by average rating in descending order.	<p>name: The name of the apartment.</p> <p>address.suburb: The suburb where the apartment is located.</p> <p>price: The price of the apartment.</p>

		<p>average_rating: The average rating of the apartment based on review scores.</p> <p>host: A nested object containing:</p> <p>host_name: The name of the host.</p> <p>host_response_rate: The response rate of the host.</p> <p>host_identity_verified: A boolean indicating if the host's identity is verified.</p>
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